

SCHEDULE OF RATES

FOR TERM CONTRACTS FOR BUILDING WORKS

2006 EDITION

Volume 1
(Builder's Work)



ARCHITECTURAL SERVICES DEPARTMENT
HONG KONG

ARCHITECTURAL SERVICES DEPARTMENT

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Section 00

GENERAL REGULATIONS

GENERAL REGULATIONS

Associated documents

- I. This Schedule of Rates (hereinafter referred to as “this Schedule”) shall be read and used in conjunction with :-
- (a) The General Conditions of Contract and Special Conditions of Contract adopted for the Term Contract.
 - (b) The Conditions of Tender, Form of Tender, Articles of Agreement and Specification of the Term Contract.
 - (c) The General Specification for Building issued by Architectural Services Department including all current amendments issued thereto and referred to in the Term Contract.
 - (d) The General Specifications, Codes of Practice and other documents for building services installations as listed below issued by Architectural Services Department or Electrical and Mechanical Services Department including all current amendments issued thereto and referred to in the Term Contract :-
 - (i) General Specification for Electrical Installation in Government Buildings of Hong Kong Special Administrative Region issued by Building Services Branch, Architectural Services Department.
 - (ii) General Specification for Air Conditioning, Refrigeration, Ventilation and Central Monitoring and Control System Installation in Government Buildings of Hong Kong Special Administrative Region issued by Building Services Branch, Architectural Services Department.
 - (iii) General Specification for Fire Service Installation in Government Buildings of Hong Kong Special Administrative Region issued by Building Services Branch, Architectural Services Department.
 - (iv) General Specification for Liquefied Petroleum Gas Installation in Government Buildings of Hong Kong Special Administrative Region issued by Building Services Branch, Architectural Services Department.
 - (v) General Specification for Catering Equipment Installation in Government Buildings of Hong Kong Special Administrative Region issued by Building Services Branch, Architectural Services Department.
 - (vi) General Specification for Public Address Systems issued by Project Division, Electrical and Mechanical Services Department
 - (vii) Design Manual Barrier Free Access 1997 issued by Building Authority, Hong Kong.
 - (viii) Code of Practice for Fire Resisting Construction issued by Building Authority, Hong Kong.
 - (ix) Code of Practice for Minimum Fire Services Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment issued by Fire Services Department.
 - (x) Code of Practice for the Electricity (Wiring) Regulations issued by Electrical and Mechanical Services Department.
 - (xi) Code of Practice for Energy Efficiency of Lighting Installations issued by Electrical and Mechanical Services Department.
 - (xii) Code of Practice for Energy Efficiency of Air Conditioning Installations issued by Electrical and Mechanical Services Department.
 - (xiii) Code of Practice for Energy Efficiency of Electrical Installations issued by Electrical and Mechanical Services Department.

GENERAL REGULATIONS (CONT'D)

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|----|-----|---------|---|--------------------------------------|
| I. | (d) | (xiv) | Building Services Branch Testing and Commissioning Procedure No. 1 for Air-conditioning, Refrigeration, Ventilation and Central Monitoring and Control System Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | Associated documents (Cont'd) |
| | | (xv) | Building Services Branch Testing and Commissioning Procedure No. 2 for Electrical Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xvi) | Building Services Branch Testing and Commissioning Procedure No. 3 for Fire Service Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xvii) | Building Services Branch Testing and Commissioning Procedure No. 5 for Burglar Alarm and Security Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xviii) | Building Services Branch Testing and Commissioning Procedure No. 7 for Broadcast Reception Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xix) | Building Services Branch Testing and Commissioning Procedure No. 8 for Liquefied Petroleum Gas Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xx) | Building Services Branch Testing and Commissioning Procedure No. 9 for Catering Equipment Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xxi) | Building Services Branch Testing and Commissioning Procedure No. 11 for Emergency Generator Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |
| | | (xxii) | Building Services Branch Testing and Commissioning Procedure No. 12 for Steam Boiler and Calorifier Installation in Government Buildings, Hong Kong, issued by Building Services Branch, Architectural Services Department. | |

and where referred, the appropriate sections of the current edition of General Specification for Civil Engineering Works (Hong Kong Government) including all current amendments issued thereto.

- (e) Any other Particular Specification(s) issued therein and referred to in the Term Contract.

All works shall be executed in accordance with the various conditions and instructions contained hereinafter and referred to in the above mentioned documents, and in compliance with clauses and descriptions relating to workmanship, materials, plant, measurements and other matters contained in any of the above documents as repeated in this Schedule.

GENERAL REGULATIONS (CONT'D)

Definitions generally

II. Where any of the definitions given in these General Regulations are at variance with those given in the Special Conditions preceding the Work Sections throughout this Schedule, the definitions given in the Work Sections shall take priority.

- “specified” shall mean specified in the Specification and the amendments (if any)
- “described” shall mean described in the Specification and the amendments (if any)
- “proprietary” shall mean patent owned or controlled by a supplier or contractor who will be responsible for the supply or supply and installation of the patented material, product or works.
- “Schedule” shall mean this Schedule of Rates.
- “origin” shall mean the place or country where the trade name, trademark or the patent of the material is registered.
- “ditto” shall mean the whole of the work described in detail in the preceding item, except as qualified in the description in which it occurs.

Abbreviations

- “exc.” shall mean exceeding.
- “n.e.” shall mean not exceeding.
- “c/w” shall mean complete with.
- “1.50 - 3.00” shall mean exceeding 1.50 and not exceeding 3.00.
- “bore” shall mean nominal internal diameter.
- “diameter” shall mean nominal diameter.
- “mm” shall mean millimetre.
- “m” shall mean linear metre.
- “m²” shall mean square metre.
- “m³” shall mean cubic metre.
- “kg” shall mean kilogram.
- “G.S.” shall mean the General Specification referred to in Clause I(c).
- “RPE” Registered Professional Engineer.
- “TCP” Technical Competent Person.

Methods of measurement

III. All works including “Supply only of materials” measured and paid for under this Schedule shall be measured in accordance with the instructions and methods detailed herein without making reference to any local or trade customs.

All works shall be measured net as completed or fixed in its place. Allowance for large or small quantities, narrow widths, short lengths, work being in patches, repairs, any height or locations above or below ground, easy or difficult positions or confined spaces or any other exceptional circumstance has been made in this Schedule and no additional payment shall be made except where specifically provided for in this Schedule.

GENERAL REGULATIONS (CONT'D)

- | | |
|---|--|
| <p>III. All works of "Supply only of materials" shall be the net quantities specified in a Works Order. No allowance or payment will be made to the Contractor for large or small quantities, short lengths, breakage or damage, delivery to store or any designated location as directed by the Maintenance Surveyor or any other circumstance except where specifically provided for in this Schedule.</p> <p>Any disadvantage which may be entailed by items being performed under exceptional circumstances must be regarded as being offset by other items which may be proven exceptionally advantageous.</p> | <p>Methods of measurement (cont'd)</p> |
| <p>IV. All works shall be deemed to be executed during any working hour in a 24 hour-day (from 00:00 hour to 24:00 hour) including Sundays and General Holidays. No additional payment will be made for any overtime, i.e. works outside normal working hours of 08:00 hour to 18:00 hour and on Sundays and Public Holidays even ordered by the Maintenance Surveyor including :-</p> <p>(a) Overtime which is ordered by the Maintenance Surveyor in accordance with the Conditions of Contract to expedite slow progress of the work caused by default, negligence or omission by the Contractor.</p> <p>(b) Watchmen or security guard at any time.</p> | <p>Overtime</p> |
| <p>V. Where a minimum area is defined for the deduction of voids, such minimum shall refer only to openings or voids detached from the boundaries of the space measured. Reductions of area caused by projections or recesses from the boundary of the area measured shall always be deducted irrespective of size.</p> | <p>Deductions for voids</p> |
| <p>VI. Except where specified items are included in this Schedule for curved or circular work, all work shall be measured and priced as if straight. Where specific items for curved work or circular work are included, the maximum radius stated in such description shall be the limit for which curved or circular work will be paid for and any work curved to a radius greater than this limit shall be measured and priced as if straight.</p> | <p>Curved or circular works</p> |
| <p>VII. Where appropriate throughout this Schedule and where specified in the Term Contract, the following categories of works shall be executed by specialist sub-contractors :-</p> <p>(a) Included in the list of Approved Suppliers of Material and Specialist Contractors for Public Works maintained by Environment, Transport and Works Bureau namely :-</p> <p>(i) Air-conditioning Installation</p> <p>(ii) Audio Electronics Installation</p> <p>(iii) Broadcast Reception Installation</p> <p>(iv) Burglar Alarm and Security Installation</p> <p>(v) Catering Equipment Installation</p> <p>(vi) Diesel Generator Installation</p> <p>(vii) Electrical Installation</p> <p>(viii) Electronic Timing and Display Installation</p> <p>(ix) Fire Service Installation</p> <p>(x) Liquefied Petroleum Gas Installation</p> <p>(xi) Low Voltage Cubicle Switchboard Installation</p> | <p>Works executed by Specialist Sub-contractors</p> |

GENERAL REGULATIONS (CONT'D)

**Works executed
by Specialist
Sub-contractor
(Cont'd)**

- VII. (a) (xii) Radio Electronics Installation
- (xiii) Steam and Compressed Air Installation
- (xiv) Uninterruptible Power Supply Installation
- (xv) Video Electronics Installation
- (xvi) Landscaping including hydroseeding
- (xvii) Landslip Preventive/Remedial Works to Slopes/Retaining Walls
- (xviii) Road Marking
- (xix) Structural Steelwork
- (xx) Supply of Bituminous Pavement Materials and Construction of Special Bituminous Surfacing
- (b) Approved in writing by the Maintenance Surveyor namely : -
- (i) Medical Gas
- (ii) Town Gas
- (iii) Curtain Walling

Due allowance is deemed to have been made in the Contract Percentages for complying these requirements.

**Imperial equivalents
where required or
necessary**

- VIII. Whenever practicable, the Contractor shall supply materials in metric sizes and execute the works strictly in accordance with the metric dimensions specified. Imperial equivalents may be accepted only when circumstances prohibit compliance with this sub-clause (For example, statutory obligations) or where the Maintenance Surveyor considers it impracticable, undesirable or impossible to use metric sizes or dimensions or when suitable materials are not available in metric sizes.

The provision of this sub-clause shall not apply to materials which are specified in this Schedule by their actual manufactured sizes or their metric equivalents (For example, roof tiles, plywood, building boards, p.v.c. pipes, mosaic tiles) or classified in accordance with the relevant British Standards (For example, copper pipes).

Schedule rates

- IX. The rates throughout this Schedule shall include for : -
- (a) All materials supplied and works executed complying strictly with the Specification as detailed in Clause I and the provision or execution of all samples of all materials or finished works in patterns if required.
- (b) Provision of all materials and cutting and wastage on the same, except where otherwise stated, including collection, loading, conveyance, delivery, unloading, stacking, storage of the same, multi-handling between positions as directed on site and provision of storage accommodation, handling, hoisting, lowering, distributing, etc. to specified location.
- (c) Provision of all labour including travelling expenses, lodging allowance or living accommodation, toilet facility, etc. for the same.
- (d) Provision of all tools, plant, water, power, lighting, watching and worksheds.

GENERAL REGULATIONS (CONT'D)

- | | | |
|-----|--|---|
| IX. | <p>(e) All expenses for delivery, distribution or transportation of articles, materials, labour, personnel, tools, plant, worksheds etc. by all means including land, sea or air except otherwise specifically provided for in the Special Conditions of each Section in this Schedule.</p> <p>(f) Executing work in any position, location and height unless otherwise stated.</p> <p>(g) Providing record of photograph, location plan and schedule of existing trees, if any, within and in close vicinity (within 2.00 m) of the site boundary and works areas including protective and preservative works/measures such as tree surgery works, temporary fencing, etc. and the like, allowance for method of operation and vehicular access for tree preservation throughout the period of Works and removing all temporary protective and preservative works/measures on completion and making good all works disturbed.</p> <p>(h) Setting up monitor points for controlling noise, vibration, settlement and lateral movement imposed on adjoining properties including provision of equipment, technical and supervisory personnel carrying out daily monitoring and submission of records as directed by the Maintenance Surveyor.</p> <p>(i) Provision and maintaining temporary access and road as G.S. Item 1.25 and making good to match existing.</p> <p>(j) Provision and maintaining temporary drainage system as G.S. Item 1.26 and making good to match existing.</p> <p>(k) Provision of drawings, operation manuals and tests on samples or finished works.</p> <p>(l) Allowance for the works to be executed by an approved applicator where required in the Specification.</p> <p>(m) Testing and certification including the employment of independent certification bodies wherever required or necessary.</p> <p>(n) Provision, erection, maintenance, alterations, dismantling and clearing away of : -</p> <p style="padding-left: 20px;">(i) All bamboo, metal or any proprietary scaffolding, staging, ladders, trestles, cradles, platforms and similar items necessary for the execution of the works complete with all netting, coverings, screens, dust sheets, barricades, catch-fans, protective canopies;</p> <p style="padding-left: 20px;">(ii) All types of non fire-rated covered walkways and hoardings complete with gateways, adequate lighting, associated power supply and electrical work as required by the Maintenance Surveyor amongst that shall include the standard covered walkways and hoardings Type 1 to Type 6 inclusive; and</p> <p style="padding-left: 20px;">(iii) Similar measures necessary to protect new works and existing surfaces or to protect the public from harm, dust or nuisance unless specifically covered by the Special Conditions of each Work Section in this Schedule.</p> | <p>Schedule rates
(Cont'd)</p> |
|-----|--|---|
- Except for standard covered walkways and hoardings Type 1 to Type 6, the Contractor shall submit detailed drawings together with supporting calculations certified by TCP or RPE for approval and provide operation manuals of any proprietary systems proposed. Standard drawings of covered walkways, hoardings and gateways can be found in the Steel and Metal Work Section of this Schedule and are listed as follows : -
- (i) Covered walkway Type 1 as detailed on drawings 9711_01, 9711_02, 9711_10, 9711_11 and 9711_12.
- (ii) Covered walkway Type 2 as detailed on drawings 9711_03, 9711_04, 9711_10, 9711_11 and 9711_12.
- (iii) Hoarding Type 3 as detailed on drawings 9711_05, 9711_06, 9711_07, 9711_10, 9711_11 and 9711_12.
- (iv) Hoarding Type 4 as detailed on drawings 9711_08, 9711_09, 9711_11 and 9711_12.

GENERAL REGULATIONS (CONT'D)

Schedule rates
(Cont'd)

- IX. (n) (v) Covered walkway Type 5 as detailed on drawings 9711_21, 9711_22, 9711_23 and HOARDING/5/SK1 to HOARDING/5/SK10.
- (vi) Covered walkway Type 6 as detailed on drawings 9711_24, 9711_25, 9711_26 and HOARDING/6/SK1 to HOARDING/6/SK10.
- (vii) Gateway for covered walkway Type 1 as detailed on drawings 9711_01, 9711_02 and 9711_10.
- (viii) Gateway for covered walkway Type 2 as detailed on drawings 9711_03, 9711_04 and 9711_10.
- (ix) Gateway for hoarding Type 3 as detailed on drawing 9711_05.
- (x) Gateway for hoarding Type 4 as detailed on drawing 9711_08.
- (xi) Gateway for covered walkway Type 5 as detailed on drawings 9711_21 and 9711_22.
- (xii) Gateway for covered walkway Type 6 as detailed on drawings 9711-24 and 9711_25.
- (o) Clearing away debris, surplus materials or other materials arising from the works and leaving the works and areas affected by the works clean and tidy on completion to the satisfaction of the Maintenance Surveyor.
- (p) All superintendence, establishment charges, overhead expenses and profit.
- (q) Any cost and/or expenses incurred for carrying out Works at all times including working outside normal working hours.
- (r) Any other expenses incurred in conforming with the Term Contract.
- (s) Reinstatement and making good surfaces disturbed.
- (t) Imperial equivalents wherever required or necessary.

Rates for items not
specifically mentioned
in this Schedule

- X. Rates for items not specifically mentioned in this Schedule shall be valued as follows :-
- (a) Proportional rate Whenever there is an analogous item in this Schedule for an article, a material, workmanship or service of similar character or executed under similar conditions and circumstances, then at a rate equal to or in proportion to a Schedule rate. Such proportional rate shall be subject to relevant Contract Percentage adjustment.
- (b) Agreed rate When an article, a material, workmanship or service is not of similar character or is not to be executed under similar conditions and circumstances that allows it be valued by a proportional rate as sub-clause (a) above, then at a rate agreed between the Maintenance Surveyor and the Contractor. Such agreed rate shall not be subject to relevant Contract Percentage adjustment.
- An agreed rate can be applied to one Works Order only and cannot be applied to any other Works Order issued under the Term Contract.
- (c) Star rate A star rate is valued in the same way as an agreed rate but can be applied to any other Works Order issued under the Term Contract.

GENERAL REGULATIONS (CONT'D)

- XI. In all cases, Schedule rates used for pricing works whether in additions or omissions shall be applied before adjustment of any relevant Contract Percentages contained in the Form of Tender.
- Application of Contract Percentages**
- Any cost/expenses incurred in connection with the following are deemed to have been allowed and included in the relevant Contract Percentages contained in the Form of Tender : -
- (a) Overtime works as detailed in Clause IV.
 - (b) The Waste Disposal (Charges for Disposal of Construction Waste) Regulation made under the Waste Disposal Ordinance Cap 354.
 - (c) Items of preliminaries, profit and attendance and other expenses where they are not separately itemised in this Schedule.
- XII. When materials are supplied to the Contractor by Government or other designated suppliers, no allowance will be made to the Contractor other than the payment for "Fix only" ("Lay only" or "Set only", etc.) as detailed under the appropriate items of this Schedule.
- Materials supplied by Government or other designated suppliers**
- XIII. The term "Supply only" used throughout this Schedule shall mean the provision complete by the Contractor of an article, a fitting or a material. The rates for such items shall include, where applicable, obtaining and taking delivery of the article, fitting or material, transporting by land, sea, or air to sites or Government stores or other designated locations as directed by the Maintenance Surveyor, and all necessary off-loading and moving into sites, Government stores or other designated locations.
- "Supply only"**
- The rates listed in the "SUPPLY ONLY OF MATERIALS" in each Work Section of this Schedule shall include all the foregoing charges and allowance for replacement of materials damaged during delivery to, off-loading and moving into sites, Government stores or other designated locations as directed by the Maintenance Surveyor.
- XIV. The term "Take down ("Take up" or "Take out", etc.) and clear away" used throughout this Schedule shall mean execution complete by the Contractor of the work of taking down, taking up or taking out of an existing article, fitting or material either in whole or in part and removing from site and disposing of the same. The rates for such items shall include for all or any of the following : -
- "Take down ("Take up" or "Take out", etc.) and clear away"**
- (a) Works executed by specialist and payment of all fees and charges when required.
 - (b) Taking down, taking up or taking out of the article, fitting or material either in whole or in part together with any associated plugs, holdfasts, lugs, brackets and other fixings and all necessary cutting out and disposal.
 - (c) Making good any works disturbed and any damage to surrounding surfaces and filling up all mortices, holes, etc. or alternatively leaving the same open and clean to receive readily new articles, fittings or materials.
 - (d) Reinstatement and making good surfaces disturbed by specialists and payment of all charges, if required.
 - (e) Preparing edges, ends or surfaces of remaining material to receive junction with new.
 - (f) Taking up or removing covers, access doors, etc. and the like for the execution of the works and re-fixing the same on completion.

The articles, fittings, or materials taken down shall become property of the Contractor. Unless otherwise specified, due allowance for credit has been made in the rates.

GENERAL REGULATIONS (CONT'D)

“Take down (“Take up” or “Take out”, etc.) and set aside for re-use”

- XV. The term “Take down (“Take up” or “Take out”, etc.) and set aside for re-use” used throughout this Schedule shall mean execution complete by the Contractor of the work of taking down, taking up or taking out of an existing article, fitting or material either in whole or in part and setting the same aside on site or transporting to Government stores or other Government sites for subsequent re-use. The rates for such items shall include for all or any of the following : -
- (a) Works executed by specialists and payment of all fees and charges when required.
 - (b) Carefully taking down, taking up or taking out of the article, fitting or material together with associated plugs, holdfasts, lugs, brackets and other fixings and all necessary cutting out and disposal.
 - (c) Thoroughly cleaning, oiling and adjusting the article, fitting or material ready for re-use, dismantling, re-assembling again as necessary, moving and stacking or putting into stores on sites or alternatively loading, transporting, unloading and moving to Government stores or other Government sites.
 - (d) Making good any works disturbed and any damage to surrounding surfaces and filling up all mortices, holes, etc. or alternatively leaving the same open and clean to receive readily re-used or new articles, fittings or materials.
 - (e) Reinstatement and making good surfaces disturbed by specialists and payment of all charges, if required.
 - (f) Preparing edges, ends or surfaces of remaining material to receive junction with re-used or new.
 - (g) Repairing or replacing at Contractor's own cost any damage caused to the articles, fittings or materials during taking down, taking up, taking out, etc. and transit.
 - (h) Taking up or removing covers, access doors, etc. and the like for the execution of the works and re-fixing the same on completion.

“Fix only” (“Lay only” or “Set only”, etc.)

- XVI. The term “Fix only” (“Lay only” or “Set only”, etc.) used throughout this Schedule shall mean execution complete by the Contractor of the work of fixing, laying, setting, jointing, re-fixing, re-laying, re-setting and re-jointing an article, a fitting or a material made available free of charge to the Contractor by Government or it has been previously taken down. The prior taking down of the existing articles, fittings or materials shall be measured separately and paid for at the appropriate rates under applicable Work Sections of this Schedule. The rates for such items shall include for any or all of the following : -
- (a) Works executed by specialist and payment of all fees and charges when required.
 - (b) Taking delivery of the articles, fittings or materials at Government stores or other designated suppliers, loading, transporting to sites, unloading, checking and examining the same and storing on sites and returning any crates and other packings to Government stores, if required.
 - (c) Taking the articles, fittings or materials from stores on sites, sorting, cutting and fitting, fabricating, assembling, moving, hoisting, distributing at locations, fixing, laying, setting, jointing, re-fixing, re-laying, re-setting and re-jointing in new or existing work, opening or position.
 - (d) Providing all fixing and jointing materials such as nails, bolts, nuts, washers, screws, gaskets, mastic, adhesive, mortar and the like or other fixing and jointing materials made available from taking down.
 - (e) Executing all plugging and screwing, jointing, cutting all mortices and grouting the same, and executing all cutting, fitting, easing or adapting necessary to the articles, fittings or materials to the positions in which the same are to be fixed, and oiling and leaving in good working order.

GENERAL REGULATIONS (CONT'D)

- XVI. (f) Making good any damage caused to the articles, fittings or materials and surrounding surfaces and making good new or existing finishes up to the same. **“Fix only” (“Lay only” or “Set only”, etc.)**
- (g) Reinstatement and making good surfaces disturbed by specialists and payment of all charges, if required.
- When the articles, fittings or materials despite having been taken down from another positions and set aside for re-use or having been delivered by Government or other designated suppliers or their agents are made available on site, no deduction will be made from the rates of “Fix only” (“Lay only” or “Set only”, etc.) for transporting the said articles, fittings or materials to site.
- XVII. The rates for “Take down and clear away”, “Take down and set aside for re-use” and “Fix only” are not intended to cover built up fittings or composite units, i.e. fittings or units that are fabricated and can be moved in their entirety or broken down into fabricated components. These items are to be measured as the appropriate items in the respective Sections or dealt with as agreed rates unless otherwise provided in this Schedule. **Built up fittings or composite units**
- XVIII. When works are carried out by Nominated Sub-contractors and facilities for the execution of such works are afforded to the Nominated Sub-contractors by the Contractor and accounts for such works are paid by the Contractor in accordance with the Conditions of Contract, the percentage addition allowed to the Contractor on the net cost of such works shall be as that contained in the Form of Tender for “Profit and Attendance on Nominated Sub-contractors' Works”. **Nominated Sub-contractors' accounts**
- XIX. The term “Making good” shall be understood as including all labour and materials necessary to bring the disturbed area to the same face, colour, texture, etc., in the same materials as the surrounding work and shall include for painting, colouring and/or varnishing any new work to match the surrounding existing work to the entire satisfaction of the Maintenance Surveyor. **“Making good”**
- XX. When daywork is ordered by the Maintenance Surveyor, measurement of daywork shall be made according to the rules set out in Section 17 - Labour and Section 18 - Plant Hire and Services of this Schedule. **Daywork**
- XXI. The term “Utility Connection And Pavement Works” shall mean the works of drainage connection, water supply connection, construction of run-in and reinstatement of footways which shall be executed complete by contractors selected and employed by the Contractor from the “List of Approved Contractor for Public Works in Group A, B or C for Road & Drainage Works” for the drainage connection and construction of run-in and reinstatement of footways and from the “List of Approved Contractors for Public Works in Group A, B or C for Waterworks” for the water supply connection work. **“Utility Connection And Pavement Works”**
- When Utility Connection And Pavement Works are required to be executed under the Term Contract, the Contractor will be reimbursed for such works at rates included in this Schedule together with the relevant Contract Percentage adjustment. The rates throughout this Schedule for such items shall include for all or any of the following :
- (a) Complying with the requirements and procedures in connection with the Utility Connection And Pavement Works specified in the Particular Specification referred to in the Term Contract and submitting assessments and reports as required.
- (b) Liaising with the relevant authorities and utility companies, preparing and submitting relevant drawings, programmes and documents and completing all the forms in connection with the Utility Connection And Pavement Works.
- (c) Submitting all the detailed particulars in connection with the granting of an Excavation Permit [Note : Excavation Permit means any excavation permit issued by the Government in respect of the Utility Connection And Pavement Works under Section 8 of the Land (Miscellaneous Provision) Ordinance] as required by the Maintenance Surveyor.
- (d) Obtaining approvals and permits from relevant utility companies or Government departments.

GENERAL REGULATIONS (CONT'D)

**“Utility Connection
And Pavement
Works” (Cont'd)**

- XXI. (e) Complying with the conditions of any Excavation Permit applicable to the Utility Connection And Pavement Works.
- (f) Providing and maintaining temporary road or access where required for pedestrian and vehicular traffic diversions and subsequent clearing away after completion of Works.
- (g) Providing and maintaining traffic control as G.S. Item 1.18.
- (h) Locating and protecting existing services as G.S. Item 1.22.
- (i) Carrying out all necessary site inspections (including handing over inspections) jointly with the relevant authorities and utility companies.
- (j) Provision of identification tapes along the water connection mains.
- (k) Cleaning and sterilization of fresh water mains for making connections.
- (l) Provision of as built drawings and test reports as specified.
- (m) Protection of curbs, masking and unmasking of drainage channels, manhole covers, gully gratings, expansion joints, road studs and road marking.
- (n) Provision, maintenance and removal of all measures to maintain traffic flow including labour and temporary traffic diversion lighting and signs and paying all charges incurred.
- (o) Provision, maintenance and removal of temporary road, walkway, covers to trenches and the like.
- (p) Making good all surfaces, features, etc. and the like disturbed by all temporary road, access, traffic control, pedestrian footway, etc. and the like to match existing.

For payment purpose, additional payment for work items throughout this Schedule classified as “Utility Connection And Pavement Works” shall not be payable, unless they are demonstrated and substantiated by :

- (a) A copy of successfully granted Excavation Permit for the work.
- (b) Relevant approval forms and drawings from utility companies or Government departments.
- (c) Contractor's prior written notice to the Maintenance Surveyor of the name of the specialist contractors employed for the Utility Connection And Pavement Works when the Contractor is not included in the relevant List of Approved Contractors for Public Works to carry out the Utility Connection And Pavement Works.

**Submission of
measurement
and accounts**

- XXII. Measurements shall be recorded to two decimals of an unit and quantities shall be rounded and billed to the nearest two decimals of an unit.

Materials/Products

- XXIII. Throughout this Schedule, the payment of materials/products will generally be assessed according to the corresponding properties or performance standards as set out in this Schedule (with reference to the Specification) regardless of any brand names of materials/products used or the materials/products referred as “proprietary” or not.

The onus of proof rests with the Contractor to identify the properties, standards or origins of materials/products used in the Works corresponding to those set out in this Schedule (with reference to the Specification), and to provide the necessary certificates, guarantees, warranties and the like of the materials/products specified or approved for use by the Maintenance Surveyor for payment of the corresponding brand names of materials/products as set out in this Schedule.

GENERAL REGULATIONS (CONT'D)

XXIII. Certain proprietary materials, products or works in this Schedule are specified as “proprietary” without specifying their brand names. Samples or mock-ups of these proprietary materials, products or works should be submitted or provided for the Maintenance Surveyor's written approval before bulk purchase or execution. Due allowance is deemed to have been made in the Contract Percentages for complying this requirement. Any of these proprietary materials, products or works delivered or executed without the Maintenance surveyor's prior written approval should be removed or reinstated by the Contractor at their own expenses.

**Materials/Products
(Cont'd)**

For all materials, products and works within the definition of “proprietary” in Clause II regardless of whether specified by their proprietary brand names or not, the Contractor shall be further required to :

- (a) Provide test certificates, manufacturer's guarantee or warranties, if any.
- (b) Have the works executed by an approved sub-contractor/applicator and submit technical literatures, method statement etc. as required by the Maintenance Surveyor or as stated in the Term Contract.

XXIV. Whenever the unit rate for an item exceeds \$99,999.99, it has been divided by a factor (“adjustment factor”) to reduce the figure to fall within \$99,999.99 (“adjusted rate”) for inclusion in this Schedule. Such unit rate before adjustment is described in the item description as the actual rate. When the adjusted rate is to be used for all purposes under the Term Contract, such adjusted rate shall be multiplied by the adjustment factor to revert it back to the actual rate before making any adjustment of the relevant Contract Percentages.

**Adjustment
to unit rates
exceeding
\$99,999.99**

Section 01

EXCAVATION

EXCAVATION

SPECIAL CONDITIONS

Measurement generally

- I. Excavation shall be measured net with no increase for working space or bulkage of material, allowance for both having been made in the rates. Blasting will not be permitted. Should occasion ever occur when blasting is permitted, no adjustment will be made to the rates in this Schedule.

Where excavation oversite to areas exceeds an average of 200 mm deep, it shall be measured as reduced level excavation from existing ground level (i.e. no top soil or surface excavation item shall first be measured). Trench for foundation, manholes, etc. and other excavation items shall be measured from the reduced levels or ground levels, whichever is the lower. The definitions of trench excavation and bulk excavation shall be in accordance with G.S. Clause 3.01(x) and (xi).

Excavation for pipes and cables shall be measured to the nearest 0.25 m average depth.

When measuring "Extra over pipe trench excavation for excavating in brickwork, concrete, solid rock etc.", the net width of trench excavation measured shall be in accordance with Table 23.2 in Drainage Section of the General Specification for Building.

Measurements for spreading or removal of spoil arising from the Contractor's excavation shall be made net on the basis of the solid contents before excavation and no allowance shall be made for increase in bulk. Where the spoil has not been excavated by the Contractor, as in the case of landslips, debris or rubbish, etc., is to be removed, the actual cubic contents shall be measured.

Soil, hardcore, granular or graded granular filling items shall be measured net after completion.

The girth of trees to be felled or transplanted shall be measured at a point 1.00 m above ground level.

The diameter of trees to be pruned shall be measured at a point 1.00 m above ground level.

Measurement of steel sheet piling

- II. Throughout this Schedule, rates for all trades shall include for all temporary preventive, protective and supporting measures to the faces of excavation. No payment will be made for steel sheet piling and the likes under any circumstances, except where specifically ordered by the Maintenance Surveyor in writing.

Steel sheet piling including non-standard make up piles shall be measured net on the area of the piling driven. The measurement of the calculated weight shall be the length along the centre line of the alignment of completed sheet pile multiplied by the average depth from the ground level or reduced level, whichever the lower to the toe edge of the pile driven.

Extra over for corner piles and junction piles shall be the net length measured from the ground level or reduced level, whichever is the lower, to the toe edge of the piles driven.

The measurement of burning off the tops of steel piles shall be the length along the centre line of the alignment of piles driven. This item will only be paid for, if ordered by the Maintenance Surveyor in writing.

All temporary strutting and shoring to sheet piling including waling, strutting, bracing, posts and connecting members shall be found in Section 10 - Steel and Metal Work of this Schedule.

Measurement of hydroseeding and protective layer

- III. Hydroseeding and protective layer shall be measured as the surface area of the face to be covered and no allowance shall be made for surface irregularities or other local peculiarities. No deduction shall be made for an area not exceeding 1.00 m².

SPECIAL CONDITIONS (CONT'D)

IV.	The measurement shall be the compacted thickness as specified by the Maintenance Surveyor, whether laid in one or more layers. No deduction shall be made for voids not exceeding 1.00 m ³ .	Measurement of earth, granular and hardcore filling
V.	Filter membrane shall be measured as the surface area of the face to be covered and no allowance shall be made for surface irregularities or other local peculiarities. No deduction shall be made for an area not exceeding 1.00 m ² .	Measurement of filter membrane
VI.	Clear and remove from the Site rubbish, grass, shrubs, undergrowths, etc. shall be measured as the surface area of the face for clearing rubbish, cutting grass, shrubs, undergrowths, vegetable or top soil etc. and no allowance shall be made for surface irregularities or other local peculiarities. No deduction shall be made for an area not exceeding 1.00 m ² .	Measurement of clearing ground, cutting undergrowths, etc.
VII.	Establishment Works shall only be measured where such operations are specifically ordered by the Maintenance Surveyor in a separate Works Order. Unless otherwise stated the date for commencement of the Establishment Works shall be the day immediately following the date of completion of the Works Order where the Landscape Softworks were executed.	Measurement of Establishment Works
VIII.	Ornamental boulders shall be measured as the smallest square or rectangular block laid. In the case of ornamental boulders exceeding 3.00 m ³ , they shall be measured in the multiple of the largest size and the remainders shall be added. For example, a block of 10.25 m ³ shall be measured 3 times boulders 1.00 - 3.00 m ³ and the remainders are 1 times boulders of 0.75 - 1.00 m ³ and 1 times 0.25 - 0.50 m ³ .	Measurement of ornamental boulders
IX.	The rates for all excavation items shall include for : - (a) Mobilization, maintenance and demobilization of excavator, roller, compaction plant, moving plant and the like. (b) Allowance for working space and increase in bulk of all materials arising from excavation, down taking, alteration or demolition. (c) Excavating in any type of level or sloping ground including earth, clay, sand, gravel, loose boulders not exceeding 0.20 m ³ , etc. (Note : - "Extra for excavating in solid rock" as defined in Clause XIII below will be paid in addition). (d) Setting out the work and all profiles, rods, etc., and work straight or circular on plan. (e) Cutting down shrubs, undergrowth, etc., including trees not exceeding 150 mm girth, grubbing up roots and clearing away. (f) Removing old drains and sealing off connections. (g) Getting out excavated material by any means necessary and deposit excavated material in heaps including multi-handling within Site area. (h) Keeping excavations free from water by baling, pumping, temporary diversion channels or other means. All contaminated water arising from excavation shall not be disposed into the public drainage system. All additional expenses incurred shall be included in the rates.	Rates for excavation items

SPECIAL CONDITIONS (CONT'D)

Rates for
excavation items
(cont'd)

- IX. (i) Trimming sides, vertical or battered as required, and trimming, levelling, grading and ramming bottoms, and trimming slopes and banks.
- (j) Protecting the exposed surfaces of excavation by any means necessary.
- (k) Strutting, shoring, supporting and protecting measures for the faces of excavation. (Note : - Timbering/Steel works required to be left-in shall be paid for, if ordered by the Maintenance Surveyor in writing, at the rates contained in Section 08 - Carpentry and Joinery and Section 10 - Steel and Metal Works of this Schedule.)
- (l) Steel plates or other approved coverings to trenches or pits where required to provide crossings for pedestrian and vehicular traffic, shall comply with all regulations and requirements including providing traffic lights, warning lights, signs etc. and payment of all charges incurred.
- (m) All multi-handling and temporary spoil heaps, on or off-site between excavation and final position.
- (n) Temporarily supporting drain pipes, cables, etc., during excavation and making good any damage that may be caused to the same.
- (o) Filling with concrete or backfilling and compacting strictly in accordance with G.S. to "over excavation" areas or as a result of the Contractor's proposed method of excavation or where additional concrete is placed in lieu of trimming rock bottoms to exact level.
- (p) Making good with lean concrete any surface irregularities under the formation of rock cuttings which remain after trimming of rock excavation.
- (q) Preparation of record survey including an over Site topographical survey by a registered surveyor when ordered by the Maintenance Surveyor in writing.
- (r) Design of Temporary Works associated with earthworks, including temporary slopes, stockpiles and drainage. Submit the design and calculations of the Temporary Works for the approval of the Maintenance Surveyor. Prepare and submit method statement for the erection and removal of Temporary Works as required.
- (s) Settlement monitoring points.

Rates for "Extra
for excavating
in brickwork,
concrete, etc."

- X. The rates for "Extra for excavating in brickwork, concrete, solid rock, etc." shall further include for trimming the faces or edges of the work remaining.

Rates for soil
filling and
removal

- XI. The rates for soil filling and removal shall further include for all multi-handling to final position.

Rates for soil,
hardcore,
granular and
graded granular
filling

- XII. The rates for all soil, hardcore, granular and graded granular filling items shall further include for : -
- (a) Mobilization, maintenance and demobilization of earth moving plant, rollers, compaction plant and other plant necessary for the works.

SPECIAL CONDITIONS (CONT'D)

XII.	<ul style="list-style-type: none"> (b) Deposition and compaction including compaction in layers to the required density. (c) Finishing surfaces level or to falls, gradients, crowns and cambers to exact profile required, with each successive surface finished parallel to the final finished surface. (d) Additional bulk of material required to allow for compaction and consolidation. (e) All wheeling and multi-handling of material from temporary spoil heaps to place of final incorporation in the work. (f) Forming and trimming banks and slopes. (g) Temporary retaining boards to edges and slopes and any necessary handpacking at stepping and the like. (h) Removing, replacing or making good placed or compacted filling material as required where filling material subsequently becomes damaged or unsuitable. (i) Protecting the exposed surfaces of filling by any means necessary. (j) Keeping and maintaining the exposed surfaces clean. (k) Preparation of record survey when ordered by the Maintenance Surveyor in writing. (l) Soil tests and in-situ tests including : - <ul style="list-style-type: none"> (i) Collect samples selected by the Maintenance Surveyor. (ii) Carrying out all tests of soil samples by the personnel of an approved independent firm using their own equipment and providing such labour and assistance as may be required. (iii) Preparation of test reports. (iv) Payment of all charges incurred. 	Rates for soil, hardcore, granular and graded granular filling (cont'd)
XIII.	<p>Solid rock shall be defined as "Rock, which in the opinion of the Maintenance Surveyor can only be excavated by means of wedging and splitting, the use of pneumatic tools or stitch core, cut, drill, core hydraulic splitter, and shall only be allowed when the net quantity to be actually cut, split and excavated in any isolated individual portion exceeds 0.20 m³, except that in the case of excavating post holes the net quantity excavated shall be paid for". For the purposes of this Schedule, it has been assumed based on excavation by hand or with tools. Should occasion ever occur when blasting is permitted, no adjustment will be made to these rates but the Contractor shall submit method statement for approval, provide blast screens as necessary and take all other precautions and make good any damage caused at his own expense.</p>	Rates for rock excavation
XIV.	<p>Any brick, concrete, rock, etc., arising from the excavations shall become the property of the Contractor, and may if required, and approved by the Maintenance Surveyor, be broken and used for hardcore filling. For the purposes of removal, these materials shall be paid for as ordinary soils but if they are subsequently used as hardcore filling on the Site, no removal from the Site will be measured.</p>	Brick, concrete, rock, etc., to become property of the Contractor
XV.	<p>The item for clearing rubbish, cutting down grass, shrubs, undergrowth, etc., will only be paid for when such work is not in conjunction with excavation works.</p>	Clearing ground, cutting down undergrowth, etc.

SPECIAL CONDITIONS (CONT'D)**Rates for steel
sheet piling**

- XVI. The rates for steel sheet piling shall further include for : -
- (a) Welding, jointing and splicing.
 - (b) Fabrication of non-standard make up piles.
 - (c) Initial trenching and guide frames.
 - (d) Temporary strutting and waling for driving.
 - (e) Preparing and submitting details and drawings with method statement all in accordance with G.S. Items 4.02, 4.03, 4.04, 4.06, 4.07, 4.08, 4.15 and 4.16.
 - (f) Additional work and cost related to obstructions in accordance with G.S. Items 4.12 and 4.13.
 - (g) Preparing and applying protective coating or other surface treatment to sheet pile.
 - (h) Extraction of sheet piles.
 - (i) Left-in position sheet pile when ordered by the Maintenance Surveyor in writing.

**Rates for
burning off
tops of sheet
pile**

- XVII. The rates for burning off tops of sheet pile shall further include for : -
- (a) Provision, maintenance and removal from Site tools and equipment necessary for the works.
 - (b) Disposal of surplus length of piles.
 - (c) Cleaning the affected area and applying protective coatings or other surface treatment.

**Rates for
hydroseeding**

- XVIII. The rates for hydroseeding shall further include for : -
- (a) Cleaning ground and scarifying existing soil.
 - (b) Watering.
 - (c) Protection of prepared ground surfaces.
 - (d) Providing and fixing protective layers of biodegradable fabric including allowance for laps and staples.
 - (e) Making good areas not covered by approved germinated grass.
 - (f) First cut and subsequent cuts.
 - (g) Follow up fertiliser.
 - (h) Insect and disease control.
 - (i) Provision of samples and testing certificates.

SPECIAL CONDITIONS (CONT'D)

XIX	The rates for turfing shall further include for : -	Rates for turfing
(a)	Cleaning ground and scarifying existing soil.	
(b)	Cultivation and watering.	
(c)	Protection of prepared ground surfaces.	
(d)	Firming turfs with wooden beaters.	
(e)	Dressing of finely sifted topsoil mix and well brushing into joints.	
(f)	Adjusting any inequalities in finished levels.	
(g)	Making good areas not covered by approved germinated grass.	
(h)	First cut and subsequent cuts.	
(i)	Preplant fertiliser and follow up fertiliser.	
(j)	Insect and disease control.	
(k)	Provision of samples and testing certificates.	
XX.	The rates for transplanting trees shall further include for : -	Rates for transplanting trees
(a)	Submission of method statement on all tree works to the Maintenance Surveyor prior to any works including excavation, crown thinning, root pruning and undercutting on the existing tree(s).	
(b)	Mobilization, maintenance and demobilization of excavator, mobile crane, lorry with lifting jibs and other plant necessary for the works.	
(c)	Cleaning ground, existing soil and contaminated ground.	
(d)	Cultivation and watering.	
(e)	Protection of prepared tree pit.	
(f)	Root pruning and undercutting of the root system of rootball to the required size.	
(g)	Crown thinning of the plant to the form and shape as required.	
(h)	Protection of trees from mechanical damages, excessive sunlight, wind and drought including dressing wounds.	
(i)	Wrapping the rootball with hessian or spraying with approved anti-transpiration spray and keeping the whole plant moist at all time.	
(j)	Pit planting tree.	
(k)	Provision of metal stakes, ties, guys and guying stakes as required.	
(l)	Preplant fertiliser and follow up fertiliser.	
(m)	Insect and disease control.	
(n)	Replacement of trees in case of dead.	
(o)	Back-filling voids and making good disturbed surface to match existing.	

SPECIAL CONDITIONS (CONT'D)**Rates for
Establishment
Works**

- XXI. The rates for Establishment Works shall include for : -
- (a) Maintaining the works for an establishment period of twelve months.
 - (b) Regrassing where grass fails to become established or not conforming to the Specification.
 - (c) Watering and carrying out operations based on the assessment of the Establishment Works required.
 - (d) Corresponding operations for Establishment Works, likewise weeding, mulching, forking, applying fertilizers, etc.

**Rates for soiling
in landscape
areas generally**

- XXII. The rates for all soiling in landscape areas shall further include for : -
- (a) Mixing, depositing, compaction, spreading, levelling and beating.
 - (b) Multiple handling.
 - (c) Protection of prepared ground against compaction, erosion and siltation.
 - (d) Importing soils from any source.
 - (e) Provision of samples.
 - (f) Additional bulk of material required to allow for compaction and consolidation.
 - (g) Removing, replacing or making good placed or compacted soiling as required where soiling material subsequently becomes damaged or unsuitable.

**Rates for
fabricated
soil mix**

- XXIII. Further to Clause XXII, the rates for fabricated soil mix shall further include for : -
- (a) Testing of samples by an Approved Laboratory and provision of Certificates of Analysis of the soil conditioner.
 - (b) Protection and storage of fabricated soil mix.
 - (c) Replacement of fabricated soil mix which are not conforming to the Specification.

**Rates for
top soil**

- XXIV. Further to Clause XXII, the rates for top soil shall further include for : -
- (a) Protection and storage of top soil.

**Rates for
tree surgery
works**

- XXV. The rates for tree surgery works to existing trees shall include for complying with General Specification 25.80 to 25.88.

SPECIAL CONDITIONS (CONT'D)

XXVI.	The rates for ornamental boulders shall further include for :-	Rates for ornamental boulders
(a)	Mobilization, maintenance and demobilization of all plants necessary for the works.	
(b)	Provision of samples if required.	
(c)	Supply, loading, transport, unloading, all multiple handling and disposal of surplus excavated material, storage and placing in final position including all necessary excavation (footing shall be measured separately).	
(d)	Marking of ornamental boulders on delivery and removing all marking after installation as instructed by the Maintenance Surveyor.	
(e)	Assembling ornamental boulders to any shape, pattern, sculptures as directed by the Maintenance Surveyor.	
XXVII.	G.S. clauses for cleaning ground, soil filling to planting area, fertiliser, turfing, hydroseeding, transplanting trees, ornamental boulders and Establishment Works can be found in the Landscape Work Section of the General Specification for Building.	G.S. clauses for cleaning ground, soil filling to planting area, fertiliser, turfing, hydroseeding, transplanting trees, ornamental boulders and Establishment Works
XXVIII.	G.S. clauses for drain trench excavation can be found in Drainage Section of the General Specification for Building.	G.S. clauses for drain trench excavation
XXIX.	G.S. clauses for steel sheet piling can be found in Steel Sheet Piling Work Section of the General Specification for Building.	G.S. clauses for steel sheet piling

Item	STEEL SHEET PILING TO EXCAVATION		Item																									
	Plant : -	A \$																										
	<i>Per item</i>																											
01001	Mobilization, maintenance and demobilization of piling plant, crane, compressor and other equipment necessary for the work.....	23,995.00	01001																									
	Supplying, handling, transporting, pitching, driving and withdrawing / left in sheet piles as G.S. Item 4.01 : -																											
	<i>Per kg</i>																											
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Design length (m)</th> </tr> <tr> <th>N.e. 10</th> <th>10 - 20</th> <th>20 - 30</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> </tr> <tr> <td style="text-align: center;">5.90</td> <td style="text-align: center;">6.40</td> <td style="text-align: center;">6.90</td> </tr> </tbody> </table>	Design length (m)			N.e. 10	10 - 20	20 - 30	A	B	C	\$	\$	\$	5.90	6.40	6.90											
Design length (m)																												
N.e. 10	10 - 20	20 - 30																										
A	B	C																										
\$	\$	\$																										
5.90	6.40	6.90																										
01002	Steel sheet piles.....		01002																									
	<i>Per linear metre</i>																											
01003	Extra over Item 01002 for corner piles.....	670.60	01003																									
01004	Extra over Item 01002 for junction piles.....	732.20	01004																									
	Sundries : -																											
	<i>Per linear metre</i>																											
01005	Burning off tops of sheet piles.....	189.60	01005																									
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">Diameter (mm)</th> </tr> <tr> <th>N.e. 100</th> <th>100 - 200</th> <th>200 - 300</th> <th>300 - 400</th> <th>400 - 500</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> </tr> <tr> <td style="text-align: center;">47.40</td> <td style="text-align: center;">94.80</td> <td style="text-align: center;">150.10</td> <td style="text-align: center;">213.30</td> <td style="text-align: center;">268.60</td> </tr> </tbody> </table>	Diameter (mm)					N.e. 100	100 - 200	200 - 300	300 - 400	400 - 500	A	B	C	D	E	\$	\$	\$	\$	\$	47.40	94.80	150.10	213.30	268.60	
Diameter (mm)																												
N.e. 100	100 - 200	200 - 300	300 - 400	400 - 500																								
A	B	C	D	E																								
\$	\$	\$	\$	\$																								
47.40	94.80	150.10	213.30	268.60																								
01006	Cutting or burning holes through sheet piling.....		01006																									
	<i>Each</i>																											
	(Note : - The above Items 01001 to 01006 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing)																											

Item	GENERAL EXCAVATION				Item	
	<i>Per square metre</i>			A \$		
01007	Excavate over Site n.e. 200 mm deep.....			10.70	01007	
	<i>Per cubic metre</i>					
01008	Excavate over Site to reduce levels average exceeding 200 mm deep.....			35.10	01008	
		That portion of excavation				
		N.e. 1.50 m deep	1.50 - 3.00 m deep	3.00 - 4.50 m deep	4.50 - 6.00 m deep	
	<i>Per cubic metre</i>	A \$	B \$	C \$	D \$	
01009	Excavate trenches for foundation exceeding 1.80 m wide.....	32.10	49.70	57.60	67.10	01009
01010	Ditto but n.e. 1.80 m wide.....	34.40	58.90	71.40	81.80	01010
01011	Excavate for foundations, manholes, pits, cesspits, etc., and the like exceeding 5.00 m ² area.....	44.90	71.70	81.40	96.60	01011
01012	Ditto but n.e. 5.00 m ² area.....	54.10	95.70	108.90	126.10	01012
	<i>Each</i>				A \$	
01013	Excavate for post holes not exceeding 0.30 m ³ including return, fill in and compact and remove surplus excavated material from Site.....				31.50	01013

Item	PIPE OR CABLE TRENCH EXCAVATION										Item	
	Excavate trench for pipe or cable with concrete bed (if any), including return, fill in, compact and remove surplus excavated material from Site : -	Pipe bore or cable diameter (mm)										
		Not exceeding 150	150 to 300	300 to 450	450 to 600	600 to 900	900 to 1,200	1,200 to 1,500	1,500 to 1,800	Two pipes side by side each n.e. 150	Three pipes side by side each n.e. 150	
		A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	
01014	Trench n.e. 1.50 m deep and average 0.25 m deep.....	12.30	18.00	-	-	-	-	-	-	18.90	25.40	01014
01015	Ditto average 0.50 m deep.....	27.20	39.40	53.50	73.40	-	-	-	-	41.90	56.50	01015
01016	Ditto average 0.75 m deep.....	38.50	53.30	71.20	96.80	140.80	-	-	-	58.70	79.00	01016
01017	Ditto average 1.00 m deep.....	49.70	67.50	89.20	120.20	171.30	237.40	-	-	75.50	101.50	01017
01018	Ditto average 1.25 m deep.....	106.70	127.30	152.70	189.30	247.30	322.60	393.50	-	138.20	169.70	01018
01019	Ditto average 1.50 m deep.....	127.00	150.50	179.70	222.00	287.00	371.10	448.70	531.20	150.30	183.90	01019
01020	Trench 1.50 - 3.00 m deep and average 1.75 m deep.....	148.20	174.70	207.80	256.30	328.80	422.30	507.10	596.10	191.40	234.50	01020
01021	Ditto average 2.00 m deep.....	169.70	199.10	236.40	290.90	371.20	474.60	566.30	662.10	216.70	265.50	01021
01022	Ditto average 2.25 m deep.....	194.90	227.50	268.90	329.70	417.90	531.10	630.10	732.80	229.60	279.90	01022
01023	Ditto average 2.50 m deep.....	224.00	259.90	305.50	372.80	468.60	592.10	698.70	808.20	286.00	347.90	01023
01024	Ditto average 2.75 m deep.....	246.20	285.30	335.30	408.90	513.00	646.60	760.90	877.30	314.50	383.00	01024
01025	Ditto average 3.00 m deep.....	268.80	311.30	365.80	446.30	558.80	703.30	825.40	949.20	344.10	419.30	01025
01026	Trench 3.00 - 4.50 m deep and average 3.25 m deep.....	299.20	344.90	404.00	491.40	612.80	768.00	898.10	1,029.50	381.10	463.30	01026
01027	Ditto average 3.50 m deep.....	322.40	371.70	435.70	530.10	660.20	826.70	965.10	1,104.00	411.50	500.80	01027
01028	Ditto average 3.75 m deep.....	345.90	399.00	467.60	569.20	708.30	886.40	1,033.10	1,180.00	442.40	538.80	01028
01029	Ditto average 4.00 m deep.....	373.30	430.10	503.60	612.60	761.10	950.60	1,106.00	1,260.90	477.10	580.90	01029
01030	Ditto average 4.25 m deep.....	397.60	457.90	536.60	653.00	810.80	1,012.30	1,176.40	1,339.30	508.80	620.10	01030
01031	Ditto average 4.50 m deep.....	426.00	490.50	574.30	698.90	866.40	1,080.40	1,253.80	1,425.20	545.30	664.40	01031

Item	EXCAVATING IN BRICKWORK, CONCRETE, ROCK, ETC.		Item
	<i>Per cubic metre</i>	A \$	
01032	Extra over Items 01007 to 01031 inclusive for excavating in chunam surfacing, cement rendering, masonry, brickwork, blockwork, bituminous surfacing, etc. and the like.....	50.50	01032
01033	Ditto for excavating in plain concrete foundations, surface beds, etc.....	177.20	01033
01034	Ditto for excavating in reinforced concrete foundations, surface beds, etc., including cutting reinforcement.....	299.90	01034
01035	Ditto for excavating in solid rock as described in Special Condition Clause XIII.....	362.00	01035
01036	Ditto for excavating in solid rock with non-explosive demolition agent..... (Note : - This item will only be paid for, if ordered by the Maintenance Surveyor in writing.)	567.90	01036
	SOIL FILLING		
	<i>Per cubic metre</i>		
01037	Return, fill in and compact suitable excavated materials around foundations, etc., and the like.....	51.00	01037
01038	Wheel, spread, level and compact suitable excavated materials in layers as filling to make up level.....	40.80	01038
01039	Approved suitable filling materials including both general filling material or special filling material as G.S. Clause 3.01(vii) and (viii) brought to Site from Contractor's own source, wheel, spread, level and compact in layers as filling around foundations, etc. and the like.....	104.70	01039
01040	Ditto but as filling to make up level..... (Note : - The above Items 01039 to 01040 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)	92.70	01040
	REMOVAL		
	<i>Per cubic metre</i>		
01041	Load surplus or unsuitable excavated material and remove from Site.....	116.30	01041
01042	Load spoil, debris, rubbish, etc., and the like not arising from the works and remove from Site..... (Note : - This item will only be paid for, if ordered by the Maintenance Surveyor in writing and the quantity agreed before removal commences)	128.70	01042
	GRANULAR FILLING		
	<i>Per cubic metre</i>		
01043	Wheel, spread, level and compact sand / fine aggregate in layers including blinding top surface with approved fine grade material.....	80.70	01043
01044	Wheel, spread, level and compact granular filling of size 75 - 150 mm coarse aggregate in layers including blinding top surface with approved fine grade material.....	111.10	01044
01045	Ditto but filling behind retaining walls.....	117.20	01045
	HARDCORE FILLING		
	Hardcore size : 28 - 150 mm in single or multi-graded size(s)		
	<i>Per cubic metre</i>		
01046	Wheel, spread, level and compact hardcore in beds under floors, pavings, etc., and the like in layers n.e. 150 mm thick including blind top surface with approved fine grade material.....	100.40	01046
01047	Ditto but in layers filled in behind retaining walls including hand packing where necessary.....	105.00	01047

Item	TURFING AND GRASSING		Item													
	<i>Per cubic metre</i>	A \$														
01048	Supply decomposed granite sub-soil filling materials, wheel, spread, level and compact in layers 75 mm thick to flat areas and slopes or filled into flower bed or flower boxes, including trimming and beating surface and forming mitres and curves.....	61.40	01048													
01049	Supply fabricated soil mix ditto.....	80.00	01049													
01050	Supply top soil ditto.....	108.00	01050													
01051	Supply special soil mix composed of 1 part selected soil, 1 part sand and 1 part fine aggregate mixed thoroughly ditto.....	68.60	01051													
	<i>Per square metre</i>															
01052	Provide and lay turves each approximately 500x300x50 mm thick butt jointed on flat or slopes area.....	74.20	01052													
01053	Lay only turves butt jointed on flat or slopes areas.....	37.30	01053													
01054	Spray hydroseeding to surfaces of slope n.e. 30 degree from horizontal.....	15.70	01054													
01055	Ditto exceeding 30 degree from horizontal	17.40	01055													
01056	Carry out establishment works for grassing for a period of twelve months..... (Note : - Establishment works will only be paid for if a separate Works order is issued by the Maintenance Surveyor.)	2.70	01056													
	CLEARING GROUND, CUTTING UNDERGROWTH AND FELLING TREES															
	<i>Per square metre</i>															
01057	Clear and remove from Site rubbish, grass, shrubs, undergrowth, and the like and trees n.e. 150 mm girth, including grubbing up roots and making good disturbed surfaces to match existing..... (Note : - This item will not be paid for if excavation will be executed by the Contractor subsequently.)	19.50	01057													
01058	Ditto but to surfaces of slope, including cleaning out weep holes and clearing away any ladders, gang planks, etc. as required (ditto).....	21.70	01058													
	<i>Each</i>															
01059	Fell tree 150 - 450 mm girth, grub up roots, cut up and burn or clear away arisings, fill in voids and make good ground surface.....	89.10	01059													
01060	Ditto 450 - 900 mm girth.....	133.60	01060													
01061	Ditto 900 - 1,350 mm girth.....	207.30	01061													
01062	Ditto 1,350 - 1,800 mm girth.....	311.80	01062													
01063	Ditto 1,800 - 2,250 mm girth.....	414.60	01063													
	TREE SURGERY WORKS															
	<i>Each</i>															
		<table border="1"> <thead> <tr> <th colspan="3">Diameter (mm)</th> </tr> <tr> <th>90 ~ 320</th> <th>320 ~ 480</th> <th>480 ~ 640</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </tbody> </table>			Diameter (mm)			90 ~ 320	320 ~ 480	480 ~ 640	A	B	C	\$	\$	\$
Diameter (mm)																
90 ~ 320	320 ~ 480	480 ~ 640														
A	B	C														
\$	\$	\$														
01064	Canopy pruning to existing trees.....	100.00	150.00	200.00	01064											
01065	Limb reduction to existing trees.....	50.00	80.00	100.00	01065											

Item	TRANSPLANTING TREES	Location within the Site		Location outside the Site	Item	
		A	B			
		\$	\$			
01066	Transplant trees 150 - 450 mm girth.....	1,199.70	1,784.20		01066	
01067	Ditto 450 - 900 mm girth.....	2,411.80	3,057.80		01067	
01068	Ditto 900 - 1,350 mm girth.....	3,187.00	5,340.40		01068	
01069	Ditto 1,350 - 1,800 mm girth.....	10,828.40	17,227.00		01069	
01070	Ditto 1,800 - 2,250 mm girth.....	21,226.10	30,916.30		01070	
	Each					
01071	Carry out establishment works for transplanting trees for a period of twelve months..... (Note : - Establishment works will only be paid for, if a separate Works order is issued by the Maintenance Surveyor)	32.50	39.00		01071	
	FILTER MEMBRANE					
	Supply and lay proprietary thermally bonded non-woven filter membrane complying with the following specification :-					
	Per square metre			A		
				\$		
01072	Proprietary filter membrane with pore size 300µm; permeability (at 5cm head) 150 l/m ² .s; wide width strip tensile strength 3.0 kN/m.....			15.30	01072	
01073	Ditto but with pore size 180µm; permeability (at 5cm head) 130 l/m ² .s; wide width strip tensile strength 6.0 kN/m.....			16.80	01073	
01074	Ditto but with pore size 150µm; permeability (at 5cm head) 100 l/m ² .s; wide width strip tensile strength 8.0 kN/m.....			18.80	01074	
01075	Ditto but with pore size 125µm; permeability (at 5cm head) 75 l/m ² .s; wide width strip tensile strength 12.5 kN/m.....			20.50	01075	
01076	Ditto but with pore size 110µm; permeability (at 5cm head) 65 l/m ² .s; wide width strip tensile strength 14.5 kN/m.....			24.90	01076	
	ORNAMENTAL BOULDERS					
	Ornamental boulders shall be natural, rounded rocks of various overall sizes and types as specified and selected by the Maintenance Surveyor, supply, lay or assemble in mortar, place and sit in soil base or concrete base (concrete base measured separately).					
	Each					
		Boulder size (m ²)				
		n.e. 0.25	0.25 - 0.50	0.50 - 0.75	0.75 - 1.00	1.00 - 3.00
		A	B	C	D	E
		\$	\$	\$	\$	\$
01077	Granite.....	161.30	487.70	624.10	744.70	1,719.80
01078	Great Lake rock.....	201.60	698.10	1,045.20	1,380.20	2,130.30
01079	Serpentine boulders.....	177.40	585.10	883.70	1,138.00	1,855.80
01080	Ying rock.....	153.20	428.70	553.80	708.20	1,532.90
01081	Yellow soap stone.....	193.60	673.90	980.60	1,263.10	2,037.40
	Per cubic metre					A
						\$
01082	Take down and clear away ornamental boulders in any sizes.....					173.30
01083	Take down and set aside for re-use ditto.....					74.30
01084	Lay only in concrete or soil (concrete base measured separately) ditto.....					124.40

Item	MISCELLANEOUS ITEMS	A \$	Item
	<i>Per linear metre</i>		
01085	Clear and clean out mud, etc., from concrete rainwater channel with waterway n.e. 0.10 m ² sectional area including raising and afterwards replacing any covers, cutting back any vegetation at sides, etc., and removing from Site all arising.....	6.70	01085
01086	Add to Item 01085 for each additional 0.10 m ² or part thereof sectional area of waterway.....	1.70	01086
01087	Clear and clean out mud, etc., from earth ditch or culvert n.e. 0.20 m ² sectional area, including trimming sides and bottom, cutting back vegetation at sides and removing from Site all arising.....	10.40	01087
01088	Add to Item 01087 for each additional 0.20 m ² or part thereof sectional area.....	4.00	01088
01089	Clean out eaves gutter at any height and removing from Site all arising..... (Note : - This item will not be paid for if the gutter is required to be painted)	4.90	01089
	<i>Each</i>		
01090	Clean out mud vegetation, etc., from weep hole approximately 600 mm deep from slopes, retaining walls, etc. and remove from Site all arising.....	4.90	01090
01091	Rod out, clear and clean choked drain run including trap, gully, or manhole at either end and remove from Site all arising including taking off and afterwards replacing any covers.....	79.30	01091
01092	Ditto but choked soil, waste or rainwater downpipe including heads, bends, etc., complete.....	80.70	01092
01093	Ditto but choked trap or soil or waste branch to bath, W.C., basin, sink, etc.....	41.40	01093
01094	Clear and clean out mud, etc., from catch pit n.e. 0.30 m ³ internally and remove from Site all arising including taking off and afterwards replacing any covers.....	56.40	01094
01095	Add to Item 01094 for each additional 0.15 m ³ or part thereof internally.....	24.50	01095
01096	Supply approved sackcloth or nylon sandbag n.e. 0.10 m ³ and excavate ordinary dry earth free from stones, etc., on site and fill bag and place in position.....	17.30	01096
01097	Ditto but filled with dry earth brought to site from Contractor's own source.....	17.00	01097
01098	Ditto but filled with clean sand and place in position.....	16.60	01098
01099	Add to either of Items 01096 to 01098 inclusive for mixing 10% cement with the dry earth or sand before filling into the bag.....	7.90	01099
	UTILITY CONNECTION AND PAVEMENT WORKS		
	Add to either of Items 01001 to 01099 inclusive for works carried out in connection with Utility Connection And Pavement Works.....	15%	

Section 02

CONCRETE WORK

CONCRETE WORK

SPECIAL CONDITIONS

Measurement of concrete	<p>I. Concrete shall be measured net as laid or cast.</p> <p>No deduction shall be made for : -</p> <p>(a) Voids not exceeding 0.05 m³.</p> <p>(b) The volume of reinforcement, steel joists, stanchions and the like cast in.</p> <p>(c) Openings in walls, floors, roof slabs and the like not exceeding 0.10 m².</p>
Measurement of cutting and taking down existing concrete	<p>II. Measurements of cutting and taking down existing concrete shall include the thickness of any plastering, rendering or other finish on the surface of concrete.</p> <p>The items contained in this Section shall only apply to alterations. Any demolition works with respect to whole or part of a building shall be measured separately and paid for at appropriate rates under Section 23 - Demolition of this Schedule.</p>
Measurement of formwork	<p>III. Formwork shall be measured as the actual surface in contact with concrete. No deduction shall be made for openings not exceeding 1.00 m². Boxing for opening exceeding 1.00 m² shall be measured as edges. Wrot formwork shall be measured only when a fair finished face to the concrete is specifically ordered by the Maintenance Surveyor in writing.</p>
Measurement of reinforcement	<p>IV. Reinforcement shall be measured net as fixed. No allowance shall be made in the weight for rolling margin. The weight of reinforcement shall be calculated in accordance with the weight per linear metre in Table 7 of the Memoranda in this Schedule (regardless of the actual weight).</p> <p>Fabric reinforcement shall be measured the net area covered excluding laps. No deduction shall be made for openings not exceeding 1.00 m².</p>
Measurement of injection type of concrete repair work	<p>V. Injection type of concrete repair work shall be measured the net length of the crack where drillholes or injection ports are placed along the crack (crack exceeding 150 mm long) at 150 - 200 mm centres. Only crack with drillhole(s) or port(s) placed along shall be measured. The net length of crack n.e. 200 mm shall only be measured when at least one drillhole or port is placed along the crack. All continuous cracks without any drillhole or port shall deem to be covered by the measurement of the crack with drillhole(s) or port(s).</p>
Measurement of underlays	<p>VI. Underlays shall be measured net as laid excluding laps. No deduction shall be made for openings not exceeding 1.00 m².</p>
Measurement of precast concrete	<p>VII. Precast concrete shall be measured the actual size of the item casted. Any plasterwork shall be excluded in the measurement and it will be separately measured and paid for at appropriate rates under relevant Work Sections of this Schedule.</p>
Rates for concrete generally	<p>VIII. The rates for all concrete shall generally include for : -</p> <p>(a) Mobilization, maintenance and demobilization of concrete mixer, tower crane, mobile crane, hoist, concrete pump, vibrator and other plant necessary for the works.</p> <p>(b) Conveying, lowering, hoisting, pumping, placing in position, compacting with vibrator, curing and protection.</p> <p>(c) Formwork to sides or edges of plain concrete.</p> <p>(d) Construction joints including formwork, water bars and waterstops.</p>

SPECIAL CONDITIONS (CONT'D)

VIII.	<ul style="list-style-type: none"> (e) Laying beds level or to falls, and laying beds or slabs in alternative bays including necessary formwork to joints between bays. (f) Finishing surfaces level or to falls, currents and cambers as required, and to receive pavings unless otherwise specifically stated. (g) Casting kickers monolithically with base slab where these are required at base of walls and columns. (h) Forming all necessary sinkings in or handpacking of hardcore. (i) Forming or cutting all chases, grooves, notches, rebates, mortices, holes, grouting in ends with cement mortar including making good to match existing. (j) Forming all angles, ends, junctions, intersections, outlets and similar labours to curbs, channels and the like. (k) Casting in, building in and grouting in work to concrete inserts, puddle flanges, water stops, ducts and pipes, bolts and cramps, dowels, baluster ends and the like and making good. (l) Giving adequate notice to the Maintenance Surveyor to permit inspection of relevant part of the structure before concrete is placed and prior to commencing concreting after approval has been obtained from the Maintenance Surveyor. (m) Submission of samples and testing of materials before trial mix or making concrete for use in the Works. (n) Carrying out trial mixes, sampling and testing on the same. (o) Carrying out tests including making concrete cubes and testing on the same including all necessary security handling of concrete cube. (p) Sampling of fresh concrete and finished concrete including taking core samples as required from the finished concrete works and tests on the same including all necessary security handling of core samples. (q) Filling core hole, tie bar holes with cement mortar or concrete of same strength to the parent concrete and making good. (r) Providing method statement for the replacement of condemned concrete and any remedial works which may be supervised by a registered structural engineer. (s) All labours and equipment required at the specified locations including any necessary hoisting, craneage, scaffolding and temporary platforms, etc. for making test cores. (t) Removing from Site any concrete work failed to conform to the Specification. (u) Recording and submitting records for ready-mixed concrete. (v) Submitting details of mix design. (w) Control of alkali-aggregate reaction in concrete. (x) Use of recycled aggregate and/or recycled water in concrete, when required. 	Rates for concrete generally (cont'd)
IX.	<p>The rates for plain concrete shall further include for :-</p> <ul style="list-style-type: none"> (a) Erecting, maintaining and removing formwork or falsework as required. (b) Additional volume of concrete for filling over-break or working space. 	Rates for plain concrete

SPECIAL CONDITIONS (CONT'D)

- | | | |
|---|-------|--|
| Rates for reinforced concrete | X. | The rates for reinforced concrete shall further include for :-
(a) tamping around reinforcement. |
| Rates for reinforcement | XI. | The rates for reinforcement shall include for : -
(a) Cleaning, cutting to length, bending (including cranks and hooked ends), hoisting, fixing and securely supporting in the required position.
(b) Plastic cover spacers, spacer blocks, steel spacer rods, steel clips, steel chairs and annealed iron tying wire or tack welding.
(c) All requirements of sampling and testing including security handling, stock management on Site and removal of non-compliant re-bars.
(d) Extra fabric reinforcement at laps.
(e) Provision of all types of test certificates.
(f) Submission of bar bending schedule. |
| Rates for epoxy coating to reinforcement | XII. | The rates for epoxy coating to reinforcement shall further include for compliance with the Specification. |
| Rates for formwork | XIII. | The rates for formwork shall include for : -
(a) Submission of design on formwork and falsework including supports and foundations, and where required, by an independent structural engineer.
(b) Erecting, maintaining and striking formwork and falsework.
(c) Preventing loss of grout between joints.
(d) Fixing inserts and chases.
(e) Boxing out to form holes not exceeding 1.00 m ² .
(f) Preparing and applying surface retarders and release agents as required.
(g) Multi-handling of removing formwork and falsework when striking without overloading the finished concrete work.
(h) Preparing and applying wood preservatives to all surfaces of left-in timber formwork.
(i) Forming cambers and falls.
(j) Individual fillets, chambers, splays, drips, rebates, recesses, grooves and the like, not exceeding 100 mm total girth measured on the faces in contact with the concrete.
(k) Strutting to soffits at any height.
(l) Soffits of solid slabs in any thickness.
(m) Sides and soffits of beams in any depth.
(n) In case of formwork materials proposed by the Contractor, all necessary preparation work other than spatterdash. |

SPECIAL CONDITIONS (CONT'D)

XIV.	The rates for precast concrete items shall include for : -	Rates for precast concrete
	(a) Conveying, lowering, hoisting and multi-handling within the Site or other locations as required.	
	(b) All moulds, formwork, etc. including chamfers, throats, weathering, splayed edges, rounded tops and the like.	
	(c) Fixing or laying, jointing and pointing in position including cement mortar.	
	(d) Providing and fixing of steel reinforcement.	
XV.	The rates for surface treatment to concrete surface shall include for : -	Rates for surface treatment to concrete
	(a) Preparing plastered or unplastered surfaces ready to receive surface treatment including making good cracks with cement mortar.	
	(b) Cleaning grease or other contaminations.	
	(c) Forming fillets with cement mortar at junction between slabs and walls.	
	(d) Carrying out the works all in accordance with the manufacturer's instructions.	
XVI.	The rates for cutting and taking down existing concrete shall include for : -	Rates for cutting and taking down existing concrete
	(a) Cutting, taking down and clearing away existing concrete by hand or mechanical plant or both.	
	(b) Providing all necessary supports, props, struts and shores during taking down period or until the stability of the affected works is approved by the Maintenance Surveyor.	
	(c) Providing all necessary protection as required.	
	(d) Trimming, bending, straightening and cleaning of reinforcement for connection of new reinforcement as required.	
	(e) Providing keys for bonding of new surface.	
	(f) Preparing and applying bonding agent or primer as required.	
	(g) Making good disturbed surfaces to match existing.	
	(h) Submission of method statements for approval.	
	(i) Submission of records as required.	
XVII.	The rates for cutting chases, sinking, grooves, holes and the like shall include for : -	Rates for cutting chases, sinking, etc.
	(a) Cutting and clearing away from Site existing concrete by hand or mechanical plant or both.	
	(b) Making good all works and surfaces disturbed to match existing.	
XVIII.	The rates for diamond coring to existing concrete shall include for : -	Rates for diamond coring to existing concrete
	(a) Mobilization, maintenance and demobilization of coring plant and other mechanical plants necessary for the works.	
	(b) Coring through existing concrete or reinforced concrete walls, floors, slabs, roofs and the like including any finishes.	

SPECIAL CONDITIONS (CONT'D)

Rates for diamond coring to existing concrete (cont'd)	XVIII.	(c) Providing temporary water and power supplies and working platform as required. (d) Making good disturbed surfaces to match existing. (e) Clearing away all debris arose.
Rates for repairing to concrete	XIX.	The rate for repairing concrete shall include for : - (a) Preparing and applying repairing mortar or grouting in accordance with the manufacturer's instructions. (b) Hammering concrete surfaces to remove all loose or damaged concrete including cutting into the required depth of existing concrete . (c) Locating crack and drilling holes. (d) Preparing surface free from dirt, dust, lime, salt or other contaminants ready to receive repairing mortar including brushing surfaces with steel wire brush. (e) Cleaning reinforcement. (f) Apply primer/tact coat to substrate and anti-corrosion primer to reinforcement.
Rates for injection type of concrete repair work	XX.	The rate for injection type of concrete repair shall include for : - (a) Preparing and applying epoxy gel and chemical injection including curing in accordance with the manufacturer's instructions. (b) Hammering concrete surfaces to remove all loose or damaged concrete including cutting into the required depth of existing cracks . (c) Preparing surface free from dirt, dust, lime, salt or other contaminants ready to receive epoxy gel including flushing the crack with clean water or air brush and brushing surfaces with steel wire brush. (d) Locating crack and drilling holes. (e) Installation of plastic or metal non-return packer or ports and removal of the same on completion. (f) Repairing and repainting the affected areas to match existing.
Rates for underlay	XXI.	The rates for underlay shall include for : - (a) Allowance for laps.
Rates for rebound hammer tests	XXII.	The rates for rebound hammer tests shall include for :- (a) Mobilization, maintenance and demobilization of all necessary mechanical plants and instruments necessary for the works. (b) Preparing test areas including removing loose mortar and the like before test. (c) Providing temporary working platform and protection as required. (d) Recording and submitting records and test reports.
Quality assurance for structural concrete	XXIII.	All structural concrete shall be produced and supplied in accordance with the Quality Assurance requirement for Structural Concrete as stated in the Contract.

Item	PLAIN CONCRETE	Concrete Grade			Item			
		10P	20P	30P				
		A \$	B \$	C \$				
	<i>Per cubic metre</i>							
02001	Mass filling, packing, thickening and the like.....	575.70	653.40	722.70	02001			
02002	Foundations.....	590.10	669.30	739.90	02002			
02003	Beds, paving slabs and the like.....	586.60	665.80	736.50	02003			
02004	Blinding under foundations.....	586.80	664.50	733.80	02004			
02005	Curbs, upstands, plinths and the like.....	621.40	700.60	771.30	02005			
	REINFORCED CONCRETE	Concrete Grade						
		20MPa or 20D	25MPa or 25D	30MPa or 30D	35MPa or 35D	40MPa or 40D	45MPa or 45D	
	<i>Per cubic metre</i>	A \$	B \$	C \$	D \$	E \$	F \$	
02006	Foundations, isolated and attached bases and the like	664.50	715.00	733.80	762.10	790.30	828.30	02006
02007	Ground beams, tie beams and the like.....	669.20	719.70	738.50	766.70	795.00	832.90	02007
02008	Machine bases, thrust blocks and the like.....	670.70	721.20	740.00	768.30	796.50	834.50	02008
02009	Ground slabs or suspended slabs.....	672.20	722.70	741.60	769.80	798.10	836.00	02009
02010	Sloping suspended slabs.....	675.30	725.80	744.70	772.90	801.10	839.10	02010
02011	Walls.....	684.60	735.10	754.00	782.20	810.40	848.40	02011
02012	Retaining walls.....	692.40	742.90	761.70	789.90	818.20	856.10	02012
02013	Piers and columns.....	726.40	776.90	795.70	824.00	852.20	890.20	02013
02014	Beams.....	703.20	753.70	772.50	800.80	829.00	867.00	02014
02015	Fins and the like.....	706.30	756.80	775.60	803.90	832.10	870.10	02015
02016	Casings to structural steelwork.....	714.00	764.50	783.30	811.60	839.80	877.80	02016
02017	Stairs.....	772.80	823.30	842.10	870.40	898.60	936.60	02017
02018	Curbs, upstands and the like.....	695.50	746.00	764.80	793.00	821.30	859.20	02018
	Extra over either of Items 02006 to 02018 inclusive for concrete in water retaining structures.....						5%	
	Extra over either of Items 02006 to 02018 inclusive for pulverized fuel ash						2%	
	Extra over either of Items 02006 to 02018 inclusive for concrete with recycled coarse aggregates.....						15%	

Item	COLOURING CONCRETE	Concrete Grade						Item
		20MPa or 20D	25MPa or 25D	30MPa or 30D	35MPa or 35D	40MPa or 40D	45MPa or 45D	
		A	B	C	D	E	F	
	<i>Per cubic metre</i>	\$	\$	\$	\$	\$	\$	
02019	Extra over concrete in any position for using white cement in lieu of plain cement	79.20	100.00	117.10	134.00	150.80	170.40	02019
02020	Ditto but for using colouring pigments complying with BS 1014.....	84.40	106.60	124.80	142.80	160.70	181.60	02020
	"NO FINES" CONCRETE							
	<i>Per cubic metre</i>						A \$	
02021	No-fines concrete filling.....						385.60	02021
	LIGHTWEIGHT CONCRETE							
	<i>Per cubic metre</i>							
02022	Cement and vermiculite (1:6) by volume or other approved lightweight concrete filling, thickening, insulation slabs and the like.....						778.30	02022
	STEEL REINFORCEMENT							
	<i>Per kg</i>							
02023	Mild steel reinforcement n.e. 16 mm diameter.....						5.80	02023
02024	Ditto exceeding 16 mm diameter.....						5.80	02024
02025	High tensile steel reinforcement 10 - 40 mm diameter.....						6.00	02025
02026	Fabric reinforcement lapped at joints.....						7.50	02026
	Extra over either of Items 02023 to 02026 inclusive for epoxy coating including handling, cutting and bending, sampling and testing (as Specification)..... (Note : - The above item will only be paid for, if ordered by Maintenance Surveyor in writing.)						50%	
	FORMWORK							
	<i>Per square metre</i>					Sawn formwork	Wrot formwork	
						A \$	B \$	
02027	Vertical surfaces of foundations, ground beams, tie beams and the like.....					184.20	-	02027
02028	Ditto but to casing of structural steelwork.....					195.50	303.90	02028
02029	Ditto but to machine base, thrust blocks and the like.....					191.70	298.30	02029
02030	Ditto but to piers, columns, stanchions and the like.....					197.30	306.60	02030
02031	Ditto but to fins and the like.....					195.50	303.90	02031
02032	Soffits of suspended slabs.....					209.60	321.10	02032
02033	Sloping soffits of suspended slabs.....					229.40	349.20	02033
02034	Vertical surfaces of walls.....					195.50	303.90	02034
02035	Battered surfaces of walls.....					203.00	315.40	02035
02036	Sides and soffits of beams.....					211.40	323.90	02036

Item	FORMWORK (CONT'D)			Item	
		Sawn formwork	Wrot formwork		
		A	B		
		\$	\$		
	<i>Per square metre</i>				
02037	Casing of steel beams.....	209.60	321.10	02037	
02038	Sloping soffits of stairs.....	229.40	349.20	02038	
02039	Edges of curbs, upstands, slabs and the like exceeding 300 mm high.....	155.90	252.50	02039	
02040	Forming upper surfaces sloping exceeding 15 degrees from horizontal.....	135.10	229.70	02040	
	<i>Per linear metre</i>				
02041	Edges, open strings or risers n.e. 75 mm wide.....	43.00	69.20	02041	
02042	Ditto, 75 - 150 mm wide.....	46.50	76.80	02042	
02043	Ditto, 150 - 225 mm wide.....	52.30	89.10	02043	
02044	Ditto, 225 - 300 mm wide.....	58.10	101.60	02044	
	Add to either of Items 02027 to 02044 inclusive if formwork ordered by the Maintenance Surveyor in writing to produce rough board finish (as G.S. Clause 6.73).....	-	50%		
	Add to either of Items 02027 to 02044 inclusive if formwork ordered by the Maintenance Surveyor in writing to be left in position.....	20%	-		
	Add to either of Items 02027 to 02044 inclusive if formwork curved on plan or elevation to a radius on face n.e. 3.00 m.....	30%	30%		
	Ditto but 3.00 - 15.00 m.....	15%	15%		
	PRECAST CONCRETE				
	Precast reinforced concrete Grade 20D or 20MPa placed in position with mortar or cast into concrete :-				
	<i>Per cubic metre</i>		A		
			\$		
02045	Cooking shelf, sink, partition, slabs and the like.....		1,892.50	02045	
02046	Lintols, beams, rafters, struts and columns, cills, strings, copings, cornices, kerbs, pier caps, pit covers and the like.....		1,750.00	02046	
02047	Planters, refuse bins and the like.....		1,583.70	02047	
02048	Fencing components, posts and the like.....		2,016.30	02048	
02049	Ventilators, grilles, grille panelled walls and the like.....		1,880.00	02049	
	Extra over either of Items 02045 to 02049 inclusive for concrete grade 30MPa.....		6%		
		Take out and clear away	Take out and set aside for re-use	Fix only	
	<i>Per cubic metre</i>	A	B	C	
		\$	\$	\$	
02050	Precast item laid or placed in position.....	151.90	149.80	222.10	02050
02051	Ditto but cast into concrete (measured separately)	209.00	205.20	304.60	02051
02052	Ditto built in or bedded in cement mortar	196.60	193.20	351.80	02052

Item	SURFACE TREATMENT TO CONCRETE		Item
	<i>Per square metre</i>	A	
02053	Treat surfaces with an approved liquid applied waterproofing membrane to horizontal surfaces.....	134.80	02053
02054	Ditto but to vertical or sloping surfaces.....	137.50	02054
02055	Treating surfaces with an approved liquid hardener to horizontal surfaces.....	29.00	02055
02056	Ditto but to vertical or sloping surfaces.....	29.60	02056
02057	Treating surfaces with carborundum grains to horizontal surfaces.....	17.80	02057
02058	Ditto but vertical or sloping surfaces.....	18.40	02058
	FINISHINGS AND SUNDRY LABOURS ON NEW CONCRETE		
	<i>Per square metre</i>		
02059	Float surface fair and even with a wood float including any additional cement required	13.80	02059
02060	Trowel surface hard and smooth with a steel trowel including ditto	19.50	02060
02061	Score surface with parallel anti-slip grooves approximately 15 mm wide x 15 mm deep at 100 mm centres	22.60	02061
02062	Punch small anti-slip holes in surface approximately 15 mm deep at 150 mm centres staggered	10.20	02062
02063	Heavily tamp surface to form corrugated non-slip finish	9.00	02063
02064	Damp proof course of bitumen sprayed or brushed on surface at the rate of 0.50 litre/m ²	21.50	02064
	<i>Per linear metre</i>		
02065	Form channel n.e. 150 mm girth with rounded bottom finished to falls including angles, ends junctions, outlets, and similar labours and trowelling smooth	17.90	02065
02066	Ditto 150 - 300 mm girth	27.40	02066
	Add to either of Items 02065 to 02066 inclusive if curved on plan to a radius n.e. 3 m to the centre line	15%	
	TAKING DOWN CONCRETE FOR ALTERATION WORKS		
	Note : -		
	(i) The following Items 02067 to 02068 inclusive shall only apply to alteration works. All demolition works in respect of a whole or part of a building shall be measured and priced at the Demolition Section of this Schedule.		
	(ii) Saw cutting and diamond coring shall be measured separately if specifically ordered in writing by the Maintenance Surveyor.		
	<i>Per cubic metre</i>		
		Concrete of any grade	
		Plain concrete Reinforced concrete	
		A B	
		\$ \$	
02067	Take down or break out and clear away concrete structural elements in any position n.e. 150 mm thick	422.30 501.80	02067
02068	Ditto exceeding 150 mm thick	457.60 545.20	02068

Item	CUTTING AND SUNDRY LABOURS ON EXISTING CONCRETE	Concrete of any grade		Item
	(Note : - Saw cutting and diamond coring shall be measured separately if specifically ordered in writing by the Maintenance Surveyor.)	Plain concrete	Reinforced concrete	
		A	B	
		\$	\$	
	Per cubic metre			
02069	Cut through wall, floor slab or similar, exceeding 0.05 m ³ for new door, window or other opening, or to enlarge existing opening, including trimming surfaces to receive new plaster or other finish (finishes measured separately) (net size of required opening measured)	516.70	613.10	02069
	Per square metre			
02070	Hack surface or edge to provide key for new concrete	9.60	-	02070
02071	Cut parallel anti-slip grooves approximately 15 mm wide x 15 mm deep at 100 mm centres and make good	19.30	-	02071
02072	Cut small anti-slip holes in surface approximately 15 mm deep at 150 mm centres staggered	14.50	-	02072
02073	Cut into concrete floor all over n.e. 25 mm deep, trim and level surface to receive screed	16.50	-	02073
02074	Ditto but 25 - 50 mm deep.....	29.50	39.10	02074
02075	Add to Item 02074 for each 25 mm deep or part thereof in excess of 50 mm.....	13.10	15.50	02075
02076	Cut sinking exceeding 0.10 m ² but n.e. 25 mm deep into surface, including trimming and making good back face and edges (net size of required sinking measured)	18.20	-	02076
02077	Ditto but 25 - 50 mm deep.....	32.50	43.20	02077
02078	Add to Item 02077 for each 25 mm deep or part thereof in excess of 50 mm.....	14.40	17.00	02078
02079	Cut into spalled concrete slab, beam, wall or column n.e. 25 mm deep, trim and level surface to receive rendering in repairs	19.00	-	02079
02080	Ditto but 25 - 50 mm deep.....	26.10	33.20	02080
02081	Add to Item 02080 for each 25 mm deep or part thereof in excess of 50 mm.....	7.10	9.30	02081
	Per linear metre			
02082	Cut chase, groove or rebate n.e. 0.0005 m ² sectional area and make good, including pinning in and bedding and pointing edges of slabs, cills, steps, pipes, and similar items	14.80	17.80	02082
02083	Ditto 0.0005 - 0.01 m ² sectional area	29.50	35.60	02083
02084	Cut channel n.e. 150 mm girth with rounded bottom finished to falls, and make good including rendering with 15 mm cement and sand (1:3) and forming all angles, ends, junctions, outlets and similar labours	27.90	36.20	02084
02085	Ditto but 150 - 300 mm girth	52.30	63.20	02085
	Add to either of Items 02082 to 02085 inclusive if curved on plan to a radius n.e. 3.00 m to the centre line	20%	20%	
	Add to either of Items 02082 to 02085 inclusive if curved on plan to a radius 3.00 - 15.00 m to the centre line	10%	10%	
	Each			
02086	Cut sinking n.e. 0.01 m ² and 25 mm deep into surface including trimming and making good back face and edges (net size of required sinking measured)	6.70	8.20	02086
02087	Add to Item 02086 for each additional 25 mm or part of 25 mm in depth	3.70	4.40	02087
02088	Cut sinking as Item 02086 but 0.01 - 0.10 m ²	13.80	16.50	02088
02089	Add to Item 02088 for each additional 25 mm or part of 25 mm in depth	7.40	9.00	02089

Item	CUTTING AND SUNDRY LABOURS ON EXISTING CONCRETE (CONT'D)	Concrete of any grade		Item
		Plain concrete	Reinforced concrete	
		A \$	B \$	
	<i>Each</i>			
02090	Cut hole through concrete for pipe, air brick, access panel or similar article n.e. 0.0001 m ³ (net size of pipe or article measured) and grout or render around reveals in cement mortar (1:2) and make good one or both sides	12.80	15.40	02090
02091	Ditto 0.0001 - 0.0002 m ³	21.80	26.10	02091
02092	Ditto 0.0002 - 0.002 m ³	36.60	44.10	02092
02093	Ditto 0.002 - 0.01 m ³	46.80	57.00	02093
02094	Ditto 0.01 - 0.05 m ³	76.50	90.80	02094
02095	Cut or drill mortice in existing concrete structure for dowel, end of baluster, bracket, fixing cramp, or similar article n.e. 0.0001 m ³ (net size of article for end measured) and grout in cement and sand (1:2) and make good	11.60	14.00	02095
02096	Ditto 0.0001 - 0.0002 m ³	19.60	23.50	02096
	SAW CUTTING TO EXISTING CONCRETE			
	<i>Per linear metre</i>			
02097	Saw concrete of n.e. 10 mm wide and up to 25 mm deep	36.90	45.80	02097
02098	Ditto 25 mm to 50 mm deep	47.30	58.60	02098
02099	Ditto 50 mm to 75 mm deep	74.00	91.50	02099
02100	Ditto 75 mm to 100 mm deep	115.80	142.60	02100
02101	Add to Item 02100 for each additional 25 mm deep or part thereof.....	31.40	38.90	02101
	(Note : - The above Items 02097 to 02101 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)			
	DIAMOND CORING ON EXISTING CONCRETE			
	<i>Per linear centimetre</i>		A \$	
02102	Core diameter n.e. 25 mm.....		5.90	02102
02103	Ditto 25 - 50 mm.....		6.50	02103
02104	Ditto 50 - 75 mm.....		7.10	02104
02105	Ditto 75 - 100 mm.....		8.90	02105
02106	Ditto 100 - 125 mm.....		11.80	02106
02107	Ditto 125 - 150 mm.....		13.60	02107
02108	Ditto 150 - 175 mm.....		17.10	02108
02109	Ditto 175 - 200 mm.....		20.10	02109
02110	Ditto 200 - 225 mm.....		27.80	02110
02111	Ditto 225 - 250 mm.....		33.70	02111
02112	Ditto 250 - 275 mm.....		37.80	02112
02113	Ditto 275 - 300 mm.....		49.60	02113
	(Note : - The above Items 02102 to 02113 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)			

Item	REPAIRS TO CONCRETE	Thickness (mm)			Item																								
		10mm	15mm	Additional 5mm																									
	<p>Epoxy resins must be purchased from an approved supplier and formulated according to the manufacturer's instructions. Epoxy mortar shall comprise not more than 6.5 parts by weight of suitable fine aggregate such as silica sand or quartz powder and sand to one part by weight of approved epoxy resin. The mortar shall then be laid and cured all in accordance with the manufacturer's directions.</p> <p><i>Per square metre</i></p>																												
02114	<p>Epoxy mortar to soffits of ceilings, sides and soffits of beams, and surfaces of walls and columns.....</p> <p>Prepare and apply proprietary high build, high strength and light weight polymer modified concrete repair mortar complying the following specification:-</p> <table border="1"> <tr><td>Compressive Strength</td><td>28 days</td><td>>25 N/mm²</td></tr> <tr><td>Flexural Strength</td><td>28 days</td><td>>6 N/mm²</td></tr> <tr><td>Tensile Strength</td><td>28 days</td><td>>1.5 N/mm²</td></tr> <tr><td>Elastic Modulus</td><td>28 days</td><td>9~15 KN/mm²</td></tr> <tr><td>Bond Strength</td><td>28 days</td><td>>1.5 N/mm²</td></tr> <tr><td>Shrinkage Cracking - Coutinho ring</td><td>1-28 days</td><td>Nil</td></tr> <tr><td>Air Permeability</td><td>35 days</td><td>>150 seconds</td></tr> <tr><td>Drying Shrinkage</td><td>7 days</td><td><250 microstrains</td></tr> </table> <p><i>Per square metre</i></p>	Compressive Strength	28 days	>25 N/mm ²	Flexural Strength	28 days	>6 N/mm ²	Tensile Strength	28 days	>1.5 N/mm ²	Elastic Modulus	28 days	9~15 KN/mm ²	Bond Strength	28 days	>1.5 N/mm ²	Shrinkage Cracking - Coutinho ring	1-28 days	Nil	Air Permeability	35 days	>150 seconds	Drying Shrinkage	7 days	<250 microstrains	259.30	361.40	102.20	02114
Compressive Strength	28 days	>25 N/mm ²																											
Flexural Strength	28 days	>6 N/mm ²																											
Tensile Strength	28 days	>1.5 N/mm ²																											
Elastic Modulus	28 days	9~15 KN/mm ²																											
Bond Strength	28 days	>1.5 N/mm ²																											
Shrinkage Cracking - Coutinho ring	1-28 days	Nil																											
Air Permeability	35 days	>150 seconds																											
Drying Shrinkage	7 days	<250 microstrains																											
02115	<p>High build concrete repair mortar to soffits of ceilings, sides and soffits of beams, and surfaces of walls and columns including hammering concrete surfaces to remove all loose material and all in accordance with the manufacturer's instructions.....</p> <p>Prepare and apply proprietary high build, high strength, and light weight waterproof polymer modified concrete repair mortar complying the following specification:-</p> <table border="1"> <tr><td>Compressive Strength</td><td>28 days</td><td>>40 N/mm²</td></tr> <tr><td>Flexural Strength</td><td>28 days</td><td>>7 N/mm²</td></tr> <tr><td>Tensile Strength</td><td>28 days</td><td>>2.5 N/mm²</td></tr> <tr><td>Elastic Modulus</td><td>28 days</td><td>15-25 KN/mm²</td></tr> <tr><td>Bond Strength</td><td>28 days</td><td>>2.5 N/mm²</td></tr> <tr><td>Shrinkage Cracking - Coutinho ring</td><td>1-28 days</td><td>Nil</td></tr> <tr><td>Air Permeability</td><td>35 days</td><td>>250 seconds</td></tr> <tr><td>Drying Shrinkage</td><td>7 days</td><td><280 microstrains</td></tr> </table> <p><i>Per square metre</i></p>	Compressive Strength	28 days	>40 N/mm ²	Flexural Strength	28 days	>7 N/mm ²	Tensile Strength	28 days	>2.5 N/mm ²	Elastic Modulus	28 days	15-25 KN/mm ²	Bond Strength	28 days	>2.5 N/mm ²	Shrinkage Cracking - Coutinho ring	1-28 days	Nil	Air Permeability	35 days	>250 seconds	Drying Shrinkage	7 days	<280 microstrains	275.80	382.50	117.50	02115
Compressive Strength	28 days	>40 N/mm ²																											
Flexural Strength	28 days	>7 N/mm ²																											
Tensile Strength	28 days	>2.5 N/mm ²																											
Elastic Modulus	28 days	15-25 KN/mm ²																											
Bond Strength	28 days	>2.5 N/mm ²																											
Shrinkage Cracking - Coutinho ring	1-28 days	Nil																											
Air Permeability	35 days	>250 seconds																											
Drying Shrinkage	7 days	<280 microstrains																											
02116	<p>High build waterproof concrete repair mortar to soffits of ceilings, sides and soffits of beams, and surfaces of walls and columns surfaces including hammering concrete surfaces to remove all loose material and all in accordance with the manufacturer's instructions.....</p> <p>Prepare and apply proprietary high build and high early strength polymer modified concrete repair mortar complying the following specification:-</p> <table border="1"> <tr><td rowspan="3">Tensile Strength</td><td>1 hour</td><td>6 N/mm²</td></tr> <tr><td>24 hours</td><td>30 N/mm²</td></tr> <tr><td>28 days</td><td>37 N/mm²</td></tr> <tr><td>Flexural Strength</td><td>28 days</td><td>7.1 N/mm²</td></tr> <tr><td>Tensile Strength</td><td>7 days</td><td>2.7 N/mm²</td></tr> <tr><td>Initial Surface Absorption Test</td><td colspan="2">0.0 ml/m²/s</td></tr> </table> <p><i>Per square metre</i></p>	Tensile Strength	1 hour	6 N/mm ²	24 hours	30 N/mm ²	28 days	37 N/mm ²	Flexural Strength	28 days	7.1 N/mm ²	Tensile Strength	7 days	2.7 N/mm ²	Initial Surface Absorption Test	0.0 ml/m ² /s		266.20	378.70	112.70	02116								
Tensile Strength	1 hour		6 N/mm ²																										
	24 hours		30 N/mm ²																										
	28 days	37 N/mm ²																											
Flexural Strength	28 days	7.1 N/mm ²																											
Tensile Strength	7 days	2.7 N/mm ²																											
Initial Surface Absorption Test	0.0 ml/m ² /s																												
02117	<p>High build and high early strength concrete repair mortar to soffits of ceilings, sides and soffits of beams, and surfaces of walls and columns surfaces including hammering concrete surfaces to remove all loose material and all in accordance with the manufacturer's instructions.....</p>	345.60	487.10	152.30	02117																								

Item	REPAIRS TO CONCRETE (CONT'D)	Thickness (mm)			Item																		
		10mm	15mm	Additional 5mm																			
	Prepare and apply "Renderoc HB25" light weight concrete reinstatement mortar including hammering concrete surface to remove all loose material and all in accordance with the manufacturer's instructions.																						
	<i>Per square metre</i>	A	B	C																			
		\$	\$	\$																			
02118	'Renderoc HB 25' light weight concrete repair mortar to soffits of ceilings, sides and soffits of beams, faces of walls and columns surfaces including hammering concrete surfaces to remove all loose material and all in accordance with the manufacturer's instructions.....	261.60	358.50	97.00	02118																		
	Prepare and apply proprietary epoxy gel surface sealing of cracks prior to chemical injection complying with the following specification : -																						
			Wall surface	Ceiling surface																			
			A	B																			
			\$	\$																			
	<table border="1" style="width: 100%;"> <tr> <td>Tensile Strength (BS6319:Part 7:1983)</td> <td>4 hours</td> <td>>7.4 N/mm²</td> </tr> <tr> <td rowspan="3">Compressive Strength (BS6319:Part 2:1983)</td> <td>4 hours</td> <td>>39.0 N/mm²</td> </tr> <tr> <td>24 hours</td> <td>>60.5 N/mm²</td> </tr> <tr> <td>7 days</td> <td>>82.5 N/mm²</td> </tr> </table> <p>For dry and wet cracks or structures subject to vibrational stress. For structural purpose.</p>	Tensile Strength (BS6319:Part 7:1983)	4 hours	>7.4 N/mm ²	Compressive Strength (BS6319:Part 2:1983)	4 hours	>39.0 N/mm ²	24 hours	>60.5 N/mm ²	7 days	>82.5 N/mm ²												
Tensile Strength (BS6319:Part 7:1983)	4 hours	>7.4 N/mm ²																					
Compressive Strength (BS6319:Part 2:1983)	4 hours	>39.0 N/mm ²																					
	24 hours	>60.5 N/mm ²																					
	7 days	>82.5 N/mm ²																					
	<i>Per linear metre</i>																						
02119	Epoxy gel of any thickness to surface sealing of cracks.....		171.90	192.10	02119																		
	Prepare and apply proprietary extra low viscosity epoxy chemical injection complying with the following specification : -																						
	<table border="1" style="width: 100%;"> <tr> <td>Tensile Strength (ASTM D-638)</td> <td colspan="2">29 N/mm²</td> </tr> <tr> <td>Modulus Elasticity (ASTM D-638)</td> <td colspan="2">1.1 kN/mm²</td> </tr> <tr> <td>Compression Strength (BS6319:Part 2:1983)</td> <td>14 days</td> <td>>120 N/mm²</td> </tr> <tr> <td rowspan="2">Bond Strength (Dumb-bell Briquettes)</td> <td>3 days</td> <td>3.0 N/mm²</td> </tr> <tr> <td>7 days</td> <td>3.2 N/mm²</td> </tr> <tr> <td rowspan="2">Flexural strength (BS6319: Part 3:1986)</td> <td>7 days</td> <td>>60 N/mm²</td> </tr> <tr> <td>28 days</td> <td>>90 N/mm²</td> </tr> </table> <p>For dry and damp cracks or structures subject to vibrational stress. For structural purpose.</p>	Tensile Strength (ASTM D-638)	29 N/mm ²		Modulus Elasticity (ASTM D-638)	1.1 kN/mm ²		Compression Strength (BS6319:Part 2:1983)	14 days	>120 N/mm ²	Bond Strength (Dumb-bell Briquettes)	3 days	3.0 N/mm ²	7 days	3.2 N/mm ²	Flexural strength (BS6319: Part 3:1986)	7 days	>60 N/mm ²	28 days	>90 N/mm ²			
Tensile Strength (ASTM D-638)	29 N/mm ²																						
Modulus Elasticity (ASTM D-638)	1.1 kN/mm ²																						
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	7 days	3.2 N/mm ²																					
Flexural strength (BS6319: Part 3:1986)	7 days	>60 N/mm ²																					
	28 days	>90 N/mm ²																					
	<i>Per linear metre</i>																						
02120	Epoxy chemical injection to cracks of any size and thickness.....		328.90	367.60	02120																		
	Prepare and apply proprietary flexible polyurethane grout complying with the following specification : -																						
	<table border="1" style="width: 100%;"> <tr> <td>Specific gravity</td> <td>1.1 @ 25 °C</td> </tr> <tr> <td>Elongation</td> <td>> 34 %</td> </tr> <tr> <td>Bond Strength (Dumb-bell @ 24 hours)</td> <td>> 0.28 N/mm²</td> </tr> </table> <p>Pass full test of effect on water quality, BS 6920. Suitability in contact of drinking water. Suitability for movement to crack, fracture or joint. For non-structural purpose. For water seepage cracks and patches.</p>	Specific gravity	1.1 @ 25 °C	Elongation	> 34 %	Bond Strength (Dumb-bell @ 24 hours)	> 0.28 N/mm ²																
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Elongation	> 34 %																						
Bond Strength (Dumb-bell @ 24 hours)	> 0.28 N/mm ²																						
	<i>Per linear metre</i>																						
02121	Flexible polyurethane injection to cracks of any size and thickness.....		431.90	467.30	02121																		

Item	REPAIRS TO CONCRETE (CONT'D)	Thickness (mm)			Item				
	Prepare and apply proprietary general purpose non-shrink cementitious grout to existing concrete all in accordance with the manufacturer's instructions:-	15 mm	20 mm	Additional 5 mm					
	<i>Per square metre</i>	A	B	C					
		\$	\$	\$					
02122	Prepare and apply general purpose non-shrink cement grout to existing surface.....	247.10	339.70	92.60	02122				
	<i>Per linear metre</i>			A					
				\$					
02123	Prepare and apply proprietary anti-corrosion primer to steel reinforcement all in accordance with the the manufacturer's instructions. The rate shall include cleaning of reinforcement.			4.80	02123				
	(Note : - The above Items 02114 to 02123 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)								
	EXPANSION JOINTS, ETC.			A					
	<i>Per linear metre</i>			\$					
02124	Form horizontal or vertical expansion joint through full thickness of slab or wall n.e. 75 mm thick including formwork to one edge, providing approved centre bulb type plastic water stop 150 mm (minimum) wide and casting in one edge, coating concrete edge with bitumen at the rate of 0.50 litre/m ² or with approved proprietary primer at rate recommended by the manufacturer when formwork removed, supporting and casting in the other edge of the water stop to the abutting slab or wall, and forming cut and welded joints at all junctions of the water stop in accordance with the manufacturer's instructions			139.80	02124				
02125	Add to Item 02124 for each additional 75 mm thickness, or part thereof, of slab or wall			12.80	02125				
02126	Cover expansion joint with approved "T" or "Y" section P.V.C. or rubber cover strip pressed firmly into the joint including forming groove in concrete or wall plaster and fixing clips at 300 mm centres			114.60	02126				
02127	Thoroughly rake out existing mastic pointing to expansion joint and enlarge groove in plaster, paving, concrete, etc., as necessary ready for re-pointing (measured separately)			6.20	02127				
	<i>Per linear metre</i>	Filler thickness (mm)							
		9.50	12.50	19.00	25.00				
		A	B	C	D				
		\$	\$	\$	\$				
02128	Proprietary performed rigid joint filler placed and supported in position against horizontal or vertical slab edge, wall end, etc., n.e. 75 mm thick, including splitting into two widths if necessary to accommodate plastic water stop (measured separately).....	5.70	6.10	6.80	7.60	02128			
02129	Ditto 75 - 150 mm thick.....	9.20	10.50	12.60	15.00	02129			
02130	Ditto 150 - 225 mm thick.....	12.90	15.00	18.50	22.60	02130			
02131	Ditto 225 - 300 mm thick.....	14.20	19.40	24.30	30.10	02131			
	Point horizontal or vertical joint with one of the following mastic joint sealers as ordered, or other approved, including cleaning and preparing surfaces of joint to receive the mastic : -	Joint size (mm)							
	<i>Per linear metre</i>	5 x 15	5 x 25	15 x 15	15 x 25	15 x 50	25 x 25	25 x 50	
		A	B	C	D	E	F	G	
		\$	\$	\$	\$	\$	\$	\$	
02132	Point joint with "Secomastic"/ "Seelastik" standard grade mastic.....	9.00	12.80	20.40	31.90	60.40	50.90	98.60	02132
02133	Ditto with "Colpor 200".....	7.60	10.60	16.50	25.50	47.40	39.70	78.00	02133
02134	Point joint with "Plastijoint" including priming surfaces with "Expandite Primer No. 3" before applying mastic.....	9.80	13.60	21.30	33.30	62.60	52.70	102.10	02134
02135	Point joint with "Pliastic Grade 77" mastic including priming surfaces with "Expandite Primer No. 3" before applying mastic.....	7.50	10.00	14.70	21.80	39.60	33.60	63.30	02135
02136	Point joint with "Thioflex 600" polysulphide including priming surfaces with "Thioflex" primer before applying mastic.....	15.40	22.90	36.70	58.20	111.70	93.90	183.00	02136

Item	EXPANSION JOINTS, ETC. (CONT'D)		Item																																			
		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">Diameter (mm)</th> </tr> <tr> <th>15</th> <th>20</th> <th>25</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> </tr> <tr> <td>13.00</td> <td>16.00</td> <td>19.90</td> </tr> </tbody> </table>	Diameter (mm)			15	20	25	A	B	C	\$	\$	\$	13.00	16.00	19.90																					
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A	B	C																																				
\$	\$	\$																																				
13.00	16.00	19.90																																				
	<i>Per linear metre</i>																																					
02137	Form expansion joint with polyethylene foam backing rod.....		02137																																			
		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="7">Joint size (mm)</th> </tr> <tr> <th>5 x 15</th> <th>5 x 25</th> <th>15 x 15</th> <th>15 x 25</th> <th>15 x 50</th> <th>25 x 25</th> <th>25 x 50</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> <tr> <td>9.30</td> <td>13.60</td> <td>16.80</td> <td>22.20</td> <td>36.00</td> <td>33.00</td> <td>54.60</td> </tr> </tbody> </table>	Joint size (mm)							5 x 15	5 x 25	15 x 15	15 x 25	15 x 50	25 x 25	25 x 50	A	B	C	D	E	F	G	\$	\$	\$	\$	\$	\$	\$	9.30	13.60	16.80	22.20	36.00	33.00	54.60	
Joint size (mm)																																						
5 x 15	5 x 25	15 x 15	15 x 25	15 x 50	25 x 25	25 x 50																																
A	B	C	D	E	F	G																																
\$	\$	\$	\$	\$	\$	\$																																
9.30	13.60	16.80	22.20	36.00	33.00	54.60																																
	<i>Per linear metre</i>																																					
02138	Point horizontal or vertical joint with approved epoxy mortar including cleaning and preparing surfaces of joint and priming surfaces with approved epoxy primer before applying epoxy mortar.....		02138																																			
	REBOUND HAMMER TEST																																					
	<i>Per set</i>		A																																			
02139	Carry out rebound hammer test on existing concrete surface in accordance with BS EN 12504-2:2001 including set up equipment, calibrate, carry out test and submit reports.....	36.20	02139																																			
	UNDERLAYS																																					
	<i>Per square metre</i>																																					
02140	Reinforced waterproof building paper laid on surfaces.....	4.60	02140																																			
02141	Ditto but fixed to edges of slabs or tops of walls with and including mastic	11.30	02141																																			
02142	0.08 mm Thick polythene sheet laid on surfaces.....	5.30	02142																																			
02143	Ditto but fixed to edges of slabs or tops of walls with and including mastic	12.10	02143																																			
	SUPPLY ONLY OF MATERIALS																																					
	<i>Per cubic metre</i>																																					
02144	40 mm Granite aggregate.....	58.90	02144																																			
02145	20 mm Ditto.....	58.90	02145																																			
02146	Granite fines.....	75.20	02146																																			
02147	Sand.....	49.70	02147																																			
	<i>Per 100 kg</i>																																					
02148	Ordinary Portland cement.....	59.60	02148																																			
02149	Coloured cement.....	117.30	02149																																			

Section 03

BRICKWORK AND BLOCKWORK

BRICKWORK AND BLOCKWORK

SPECIAL CONDITIONS

Measurement of brickwork and blockwork generally

- I. Brickwork and blockwork shall generally be measured net as built. Where exceeding 225 mm or one brick thick, it shall be measured cubic metres, and where 225 mm or one brick thick or less, it shall be measured square metres. Flues and chimney breasts shall be measured solid. Apertures and voids for ranges, grates, coppers, boilers, etc., shall be deducted. Deductions shall also be made for string courses, cills, lintols, etc., but only to the extent of a full brick course in height.

No deduction shall be made for : -

- (a) Openings not exceeding 0.10 m².
- (b) Flues not exceeding 0.25 m² in sectional area.
- (c) String courses, cills, lintols, etc., less than a full brick course in height.

Apart from face work, no additional rate will be allowed for brickwork or blockwork curved on plan or built battered.

Measurement of facings to brickwork

- II. Facing brickwork shall be measured net over the whole exposed surface including additional girth of top and bottom returns of oversailing and receding courses, top of copings and the like. Exposed surfaces of all fair axed arches shall not be deducted from the area of general facings and measured separately as "Extra over" general brickwork for arches.

On no account will facing be measured where the work is to be plastered, rendered or otherwise covered up, or left rough as in trenches, backs, retaining walls and the like.

Measurement of fair face to blockwork

- III. Fair face work shall be measured net as "Extra over" the general blockwork over the whole exposed surface including additional girth of top and bottom returns of oversailing and receding courses, top of copings and the like.

On no account will fair face work be measured where the work is to be plastered, rendered or otherwise covered up, or left rough as in trenches, backs, retaining walls and the like.

Measurement for cutting and taking down brickwork and blockwork

- IV. Measurement for cutting, etc., and taking down existing brickwork and blockwork shall include the thickness of any plastering, rendering, or other finishes on both sides. In the case of taking down walls 300 mm thick and less, the net thickness of the brickwork or blockwork shall be stated.

Rates for brickwork and blockwork

- V. The rates for all new brickwork, blockwork and facings shall include for : -
- (a) Rough and fair cuttings and bonding at angles, intersections, etc..
 - (b) Oversailing and receding courses.
 - (c) Rough relieving and discharging arches.
 - (d) Wedging and pinning.
 - (e) Raking out joints to form key.
 - (f) Raking out and enlarging joints, and cement and sand pointing to flashings and the like.
 - (g) Bedding and pointing frames, plates and the like in cement and sand.

SPECIAL CONDITIONS (CONT'D)

V.	<ul style="list-style-type: none"> (h) Eaves filling. (i) Plumbing angles. (j) Forming square or rebated reveals. (k) Cutting squints, birdsmouths, splays, chamfers and the like. (l) Leaving or cutting chases, notches, holes, mortices and the like, and grouting in ends, pipes and the like, and making good. (m) Cutting and pinning ends and making good. (n) Mild steel rod reinforcement or bonding rods painted with two coats of bituminous paint, galvanised mild steel fabric reinforcement and the like. (o) Special bonding and tying for conduit installation. (p) Bonding to existing work. (q) Bonding to walls of different construction. (r) Protection to faced and fair faced work until completion of the Works. (s) Sundry items of like nature to any of the above. 	Rates for brickwork and blockwork (cont'd)
VI.	<p>The rates for new blockwork shall further include for :-</p> <ul style="list-style-type: none"> (a) Special quoin blocks, plain reveal blocks, closers and the like. (b) In the case of hollow blocks, filling cavities solid with cement mortar at ends, opening reveals, intersections and similar positions if necessary. 	Rates for blockwork
VII.	<p>The rates for cutting and taking down brickwork or blockwork shall include for removal and all materials arising from these operations shall become the property of the Contractor. Rates for taking down brickwork or blockwork shall include for taking down plastering, rendering or other finishes on one or both sides.</p>	Rates for cutting and taking down brickwork or blockwork
VIII.	<p>The rates for cutting chases, sinkings, grooves, rebates, holes and the like shall include for removing debris and making good any existing finish.</p>	Rates for cutting chases, sinkings, etc.
IX.	<p>Hollow glass block panelling can be found in Section 14 - Glazing of this Schedule.</p>	Glass blocks

Item	GENERAL BRICKWORK	A \$	Item																					
	<p>Note : - The nominal size of standard brick is 225 x 112.5 x 75 mm. Thus nominal thickness of : - One brick wall is 225 mm thick. Half brick wall is 112.5 mm thick. Brick on edge wall is 75 mm thick.</p> <p>Brickwork built in cement/lime mortar or cement mortar : -</p> <p><i>Per cubic metre</i></p>																							
03001	Solid brickwork exceeding one brick thick.....	882.90	03001																					
	<i>Per square metre</i>																							
03002	Brick-on-edge wall.....	89.50	03002																					
03003	Ditto built honeycomb.....	61.10	03003																					
03004	Half brick wall.....	111.40	03004																					
03005	Ditto built honeycomb.....	78.90	03005																					
03006	One brick wall.....	211.30	03006																					
03007	One brick staining to well.....	317.10	03007																					
03008	Ditto with mortar bed joints but open vertical joints.....	309.70	03008																					
03009	Half brick lining to stone or concrete wall bonded to same with and including flushing up solid between the brick wall and stone or concrete with mortar.....	119.60	03009																					
03010	One brick lining ditto.....	219.50	03010																					
	<i>Per linear metre</i>																							
03011	Brick-on-edge coping, upstand kerb or similar 75 mm wide including angles and ends.....	44.20	03011																					
03012	Ditto but 225 mm wide.....	68.20	03012																					
	<i>Per square metre</i>																							
03013	Form cavity between brick walls, including providing and building in wall tiles in accordance with G.S. items 9.14 and 9.36.....	21.10	03013																					
	BRICK PITS																							
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Internal girth (m)</th> </tr> <tr> <th>N.e. 0.90</th> <th>0.90 - 1.35</th> <th>1.35 - 1.80</th> </tr> <tr> <th>A \$</th> <th>B \$</th> <th>C \$</th> </tr> </thead> <tbody> <tr> <td>72.50</td> <td>97.50</td> <td>117.20</td> </tr> <tr> <td>92.30</td> <td>129.60</td> <td>159.20</td> </tr> <tr> <td>179.20</td> <td>253.50</td> <td>329.40</td> </tr> <tr> <td>20.40</td> <td>26.10</td> <td>39.80</td> </tr> </tbody> </table>		Internal girth (m)			N.e. 0.90	0.90 - 1.35	1.35 - 1.80	A \$	B \$	C \$	72.50	97.50	117.20	92.30	129.60	159.20	179.20	253.50	329.40	20.40	26.10	39.80
Internal girth (m)																								
N.e. 0.90	0.90 - 1.35	1.35 - 1.80																						
A \$	B \$	C \$																						
72.50	97.50	117.20																						
92.30	129.60	159.20																						
179.20	253.50	329.40																						
20.40	26.10	39.80																						
	<i>Each</i>																							
03014	Small pit for stop-cock, etc., n.e. 300 mm deep internally constructed of 75 mm thick concrete Grade 10P base extending to outside face of sides and trowelled smooth and half brick sides in cement mortar finished fair and pointed, or rendered in 15 mm cement and sand (1:3) internally, including all excavation, disposal and formwork (cover measured separately).....																							
		72.50	97.50																					
03015	Ditto 300 - 600 mm deep internally.....	92.30	129.60																					
03016	Ditto 600 - 900 mm deep internally.....	179.20	253.50																					
03017	Add to either of Items 03014 to 03016 for 75 mm thick precast concrete Grade 20P cover slab extending to outside face of sides, reinforced with and including expanded mesh fabric, finished fair and placed in position including all moulds and additional excavation.....	20.40	26.10																					
			39.80																					

Item	FACING BRICKWORK				Item
		English bond	Flemish bond	Stretcher bond	
		A	B	C	
		\$	\$	\$	
	<i>Per square metre</i>				
03018	Extra over brickwork exceeding one brick thick for facing and pointing with a neat struck or flush joint as the work proceeds.....	175.20	155.20	-	03018
03019	Ditto but battered.....	184.60	163.80	-	03019
03020	Half brick wall faced and pointed with a neat struck or flush joint as the work proceeds one side.....	-	-	252.30	03020
03021	Ditto both sides.....	-	-	271.90	03021
03022	One brick wall faced and pointed with a neat struck or flush joint as work proceeds one side.....	459.20	455.30	-	03022
03023	Ditto both sides.....	478.70	474.80	-	03023
	Add to either of Items 03018 to 03023 inclusive for work built circular on plan to a radius n.e. 1.50 m.....	15%	15%	15%	
	Add to ditto for work built circular on plan to a radius 1.50 - 15.00 m.....	10%	10%	10%	
	<i>Per linear metre</i>			A	
				\$	
03024	Brick-on-edge coping, upstand kerb or similar 75 mm wide including angles and ends.....			51.30	03024
03025	Ditto but 225mm wide.....			82.90	03025
	<i>Per linear metre</i>				
03026	Extra over brickwork for one brick axed arch in facings (or arch of purpose made bricks) jointing and pointing.....			113.20	03026
	Add to either of Items 03024 to 03026 inclusive for work built circular on plan to a radius n.e. 1.50 m.....			15%	
	Add to ditto for work built circular on plan to radius 1.50 - 15.00 m.....			10%	
	GENERAL FIRE BRICKWORK AND SUNDRY WORK TO FLUES				
	Brickwork in approved imported firebricks set and jointed in approved fire cement or in a mortar composed of one part of high-alumina cement to two parts of finely crushed firebrick by volume :-				
	<i>Per cubic metre</i>			A	
				\$	
03027	Solid brickwork exceeding one brick thick in linings to flues, boilers, grates, cookers, and similar positions.....			4,802.20	03027
	<i>Per square metre</i>				
03028	Brick-on-edge wall.....			325.60	03028
03029	Half brick wall.....			514.50	03029
03030	One brick wall.....			1,035.90	03030
	<i>Per square metre</i>				
03031	Rendering to flues in approved fire cement or in mortar composed of one part of high-alumina cement to two parts of finely crushed firebrick by volume 25mm thick.....			360.30	03031

Item	GENERAL FIRE BRICKWORK AND SUNDRY WORK TO FLUES (CONT'D)					Item	
	<i>Per linear metre</i>						
					A \$		
03032	150 mm Internal diameter concrete tube lining to flue including all cuttings, bends, etc., and building in and setting and jointing in cement mortar or fire cement or fireclay mortar as described for fire brickwork.....					295.90	03032
03033	225 mm Internal diameter ditto.....					484.50	03033
03034	Clean flue or chimney of any sectional area including provision of brushes, rods, and other equipment and removal of soot.....					15.50	03034
	BLOCKWORK						
	<i>Per cubic metre</i>						
03035	Solid concrete block walling exceeding 225 mm thick in cement mortar.....					1,022.30	03035
03036	Hollow concrete block walling ditto.....					1,048.80	03036
		Thickness of wall (mm)					
		75	100	140	190	220	
		A \$	B \$	C \$	D \$	E \$	
03037	Solid concrete block walling in cement mortar.....	91.80	112.80	-	-	-	03037
03038	Hollow concrete block ditto.....	101.80	126.10	196.80	222.70	273.20	03038
03039	Solid vermiculite or other approved lightweight aggregate concrete block walling in cement/lime/sand (1:2:9) by volume.....	92.80	119.40	-	-	-	03039
	<i>Per square metre</i>						
03040	Extra over either of Items 03035 to 03039 inclusive for finishing with a fair face and pointing with a neat flush or struck joint as the work proceeds.....					A \$ 11.70	03040
	Add to Item 03040 for work built circular on plan to a radius n.e. 1.50 m.....					15%	
	Add to ditto for work built circular on plan to a radius 1.50 - 15.00 m.....					10%	
	FIRE RESISTING LIGHTWEIGHT CONCRETE BLOCKS						
	Proprietary solid concrete lightweight concrete blocks in any size and thickness in accordance with BS 6073: Part 1 and : -						
	Density (kg/m ³)		Compressive Strength		Thermal Conductivity		
	500 - 700		5.0 Mpa		0.16 W/mC		
	<i>Per square metre</i>						
03041	Fire resisting lightweight concrete block walling bedded and pointed in fireproof mortar.....					A \$ 150.10	03041
		2.00	3.00	4.00	6.00		
		183.10	192.60	277.70			
	<i>Per square metre</i>						
03042	Extra over Item 03041 for sealing one side of wall with moisture sealer.....					A \$ 2.00	03042

(Note : The above Items 03041 and 03042 will only be paid for, if ordered by the Maintenance Surveyor in writing)

Item	PERFORATED CONCRETE SCREEN BLOCKS		Item																									
	<i>Per square metre</i>	A \$																										
03043	90 mm Perforated concrete screen blocks to a standard pattern in cement mortar pointed with neat flush or struck joint both sides as the work proceeds.....	112.90	03043																									
03044	90 mm Ditto but built honeycomb.....	75.20	03044																									
	SUNDRIES																											
	<i>Per square metre</i>																											
03045	Hack off and clear away existing glass bottling bonded in mortar and make good in cement mortar.....	59.80	03045																									
	<i>Per linear metre</i>																											
	(Note : - The following Items 03046 and 03047 will not be paid for, if working on new works item.)																											
03046	Fillet in cement/lime mortar or cement mortar n.e. 0.002 m ² sectional area.....	8.80	03046																									
03047	Add to Item 03046 for each additional 0.001 m ² or part thereof in sectional area.....	4.40	03047																									
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Width (mm)</th> </tr> <tr> <th style="width: 33%;">N.e. 150</th> <th style="width: 33%;">150 - 300</th> <th style="width: 33%;">300 - 450</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A \$</td> <td style="text-align: center;">B \$</td> <td style="text-align: center;">C \$</td> </tr> <tr> <td>03048</td> <td>One course plain clay tile cill set weathering to project 25 mm from finished wall face, bedded, jointed and pointed in cement mortar including angles, ends and similar labours.....</td> <td style="text-align: right;">69.10 110.50 151.50</td> <td>03048</td> </tr> <tr> <td>03049</td> <td>Two course ditto.....</td> <td style="text-align: right;">110.50 179.70 260.20</td> <td>03049</td> </tr> <tr> <td>03050</td> <td>One course plain clay tile creasing or capping to wall projecting 25 mm from both sides of finished wall face, bedded, jointed and pointed in cement mortar including angles, ends and similar labours.....</td> <td style="text-align: right;">68.50 110.00 151.50</td> <td>03050</td> </tr> <tr> <td>03051</td> <td>One course quarry tile cill set weathering to project 25 mm from finished wall face, bedded, jointed and pointed in cement mortar including angles, ends and similar labours.....</td> <td style="text-align: right;">71.50 115.40 158.90</td> <td>03051</td> </tr> </tbody> </table>		Width (mm)			N.e. 150	150 - 300	300 - 450	A \$	B \$	C \$	03048	One course plain clay tile cill set weathering to project 25 mm from finished wall face, bedded, jointed and pointed in cement mortar including angles, ends and similar labours.....	69.10 110.50 151.50	03048	03049	Two course ditto.....	110.50 179.70 260.20	03049	03050	One course plain clay tile creasing or capping to wall projecting 25 mm from both sides of finished wall face, bedded, jointed and pointed in cement mortar including angles, ends and similar labours.....	68.50 110.00 151.50	03050	03051	One course quarry tile cill set weathering to project 25 mm from finished wall face, bedded, jointed and pointed in cement mortar including angles, ends and similar labours.....	71.50 115.40 158.90	03051
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	<i>Per linear metre</i>																											
	<i>Each</i>	A \$																										
03052	Glass or cement "tell-tale" executed complete including inscribing in legible figures the date of fixing, and removing old "tell-tale" where necessary.....	20.00	03052																									
03053	Add to Item 03052 if cutting is necessary on stone or concrete wall for fixing.....	11.70	03053																									

Item	DAMP PROOF COURSE					Item					
	<i>Per square metre</i>										
03054	One course bituminous felt damp proof course laid on, under, or to vertical face of, walls, lapped 150 mm at joints, and including cement mortar levelling bed on wall or concrete under (measured net).....					A \$ 102.30	03054				
	CUTTING AND SUNDRY LABOURS ON EXISTING BRICKWORK OR BLOCKWORK IN CEMENT OR CEMENT/LIME MORTAR										
	(Note : - The following Items 03055 to 03092 inclusive will not be paid for, if working on new works item.)										
	<i>Per cubic metre</i>										
03055	Cut through wall exceeding 0.05 m ³ for new door, window or other opening, or to enlarge existing opening including any necessary strutting and shoring required, levelling for cills, cutting toothings and providing and bonding in any new bricks required, and making out jambs and heads ready to receive new plaster or other finish, cutting and pinning in ends of new cills, lintols, fixing lugs, cramps, bolts, etc., and clearing away all debris (net size of required opening including allowance for lintol or arch and cill but excluding pockets for fixing lugs, cramps, bolts, etc., measured. New lintol, arch, plastering, decoration or "Extra for facing" all measured separately).....					Brick-work A \$ 864.30	Hollow clay block B \$ 617.30	Solid concrete block C \$ 761.40	Hollow concrete block D \$ 726.20	Solid vermicu-lite block E \$ 704.40	03055
03056	Rake out joints 10 mm deep and re-point in cement or cement/lime mortar with a neat struck weathered or flush joint.....					38.60	34.60	30.50	30.50	30.50	03056
03057	Level and prepare top of wall for raising.....					44.10	39.70	35.30	35.30	35.30	03057
03058	Cut sinking exceeding 0.10 m ² but n.e. 25 mm deep into surface, including trimming and making good back face and edges (net size of required sinking measured).....					72.40	-	59.40	50.60	48.20	03058
03059	Add to Item 03058 for each additional 25 mm or part of 25 mm in depth.....					64.40	-	52.80	45.00	43.00	03059
03060	Wedge and pin up top of wall to new soffit.....					138.30	139.50	157.30	155.10	164.40	03060
03061	Bed corrugated roof sheeting on top of wall in cement mortar including pointing edges if required.....					91.00	91.00	91.00	91.00	91.00	03061
03062	Make good end or face of wall where existing wall which was bonded in has been removed including providing selected bricks or blocks and jointing in and pointing if required to match existing (any new plaster, etc. measured separately).....					118.70	95.80	106.00	105.30	102.10	03062
03063	Cut out decayed or broken bricks or blocks of any thickness and replace with new selected bricks or blocks and joint in and point, if required, to match existing (in areas where more than seven adjacent bricks or one block are replaced) (any new plaster, etc. measured separately).....					234.30	176.40	214.50	196.10	191.20	03063

Item	CUTTING AND SUNDRY LABOURS ON EXISTING BRICKWORK OR BLOCKWORK IN CEMENT OR CEMENT/LIME MORTAR (CONT'D)	Item																														
	<i>Per linear metre</i>	A \$																														
03064	Bed frame, plate or similar item n.e. 150 mm wide, when fixing in existing opening or position, in cement mortar and point one or both sides if required.....	16.20 03064																														
03065	Ditto 150 - 300 mm wide.....	19.60 03065																														
03066	Rake out defective joint, at least 10 mm deep around door frame or window, or to flashing or similar, and re-point in cement mortar.....	5.50 03066																														
03067	Rake out crack in wall, beam, slab or other position and point in cement mortar (Note : - Repairs of minor cracks included in preparation for painting see Section 15 of this Schedule).....	7.10 03067																														
03068	Rake out and enlarge joint for turn in of new lead or asphalt flashing or similar, and point in cement mortar including lead or teak wedging if necessary.....	12.70 03068																														
03069	Add to either of Items 03064 to 03068 inclusive of pointing in mastic in lieu of cement mortar (per side pointed).....	13.70 03069																														
03070	Add to ditto for pointing in coloured cement mortar in lieu of plain cement mortar.....	0.10 03070																														
03071	Point 3 x 10 mm joint with silicon mastic to metal/wood frames or sanitary appliance, etc.....	6.90 03071																														
03072	3 x 13 mm Ditto.....	10.10 03072																														
03073	6 x 6 mm Ditto.....	7.20 03073																														
03074	6 x 10 mm Ditto.....	11.10 03074																														
03075	6 x 13 mm Ditto.....	11.90 03075																														
03076	10 x 10 mm Ditto.....	15.70 03076																														
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Brick-work	Hollow clay block	Solid concrete block	Hollow concrete block	Solid vermicu-lite block																												
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17.20	11.80	15.90	15.90	12.50																												
23.80	16.00	21.90	21.90	17.00																												
03078	Cut chase or rebate n.e. 0.0005 m ² section area (net size of chase or rebate required measured) and make good including pinning in and bedding and pointing in cement mortar to edges of slabs, cills, steps, pipes and similar items.....	11.70 03078																														
03079	Ditto 0.0005 - 0.010 m ² sectional area.....	17.20 03079																														
03080	Ditto 0.010 - 0.030 m ² sectional area.....	23.80 03080																														

Item	CUTTING AND SUNDRY LABOURS ON EXISTING BRICKWORK OR BLOCKWORK IN CEMENT OR CEMENT/LIME MORTAR (CONT'D)						Item
		Brick-work	Hollow clay block	Solid concrete block	Hollow concrete block	Solid vermicu-lite block	
		A \$	B \$	C \$	D \$	E \$	
	<i>Each</i>						
03081	Cut hole or sinking n.e. 0.01 m ² and 25 mm deep into surface including trimming and making good back face and edges. (net size of required sinking measured).....	9.70	7.70	10.80	9.30	7.90	03081
03082	Add to Item 03081 for each additional 25 mm or part of 25 mm in depth.....	5.30	4.20	5.90	5.10	4.30	03082
03083	Cut sinking as Item 03081 but 0.01 - 0.10 m ²	19.70	15.00	21.70	18.40	16.00	03083
03084	Add to Item 03083 for each additional 25 mm or part 25 mm in depth.....	10.80	8.30	11.80	10.40	8.60	03084
03085	Cut hole through brickwork or blockwork for pipe, airbrick or similar, n.e. 0.0001 m ³ (net size of pipe or article measured) and grout in or render round reveals in cement mortar (1:2) and make good one or both sides.....	4.70	3.60	5.20	4.50	3.80	03085
03086	Ditto 0.0001 - 0.0002 m ³	9.40	7.40	10.60	9.00	7.60	03086
03087	Ditto 0.0002 - 0.0020 m ³	19.10	15.30	21.40	18.40	15.40	03087
03088	Ditto 0.0020 - 0.0100 m ³	30.70	24.50	34.20	29.40	25.10	03088
03089	Ditto 0.0100 - 0.0500 m ³	39.40	33.50	42.70	38.30	34.20	03089
03090	Cut out decayed or broken brick or block of any thickness and replace with new selected brick or block and joint in and point if required to match existing (in area where not more than seven adjacent bricks or one block is replaced) (any new plaster, etc., measured separately).....	32.40	27.10	40.70	35.30	30.70	03090
	(Note : - Rates for ragbolts, rawbolts, etc., in Section 10 - Steel and Metal Work of this Schedule include for all mortices and grouting.)						
03091	Cut or drill mortice for dowel, baluster end, bracket end, fixing cramp, bolt or similar articles n.e. 0.0001 m ³ (net size of article or end measured) and grout in cement and sand (1:2) and make good.....	5.50	4.60	6.50	6.50	5.00	03091
03092	Ditto 0.0001 - 0.0002 m ³	9.40	8.00	11.50	11.50	8.40	03092
	TAKING DOWN BRICKWORK OR BLOCKWORK BUILT IN CEMENT/LIME OR CEMENT MORTAR						
	<i>Per cubic metre</i>						
03093	Take down and clear away wall in any position exceeding 300 mm thick.....	218.10	164.00	214.20	204.60	191.00	03093
	<i>Per square metre</i>						
03094	Take down and clear away wall in any position n.e. 100 mm thick.....	18.40	11.40	16.00	15.10	13.90	03094
03095	Ditto 100 - 200 mm thick.....	35.70	26.40	35.10	33.50	31.10	03095
03096	Ditto 200 - 300 mm thick.....	57.90	43.00	56.90	54.20	50.50	03096

Item	FIXING GRATES, RANGES, FIRE SURROUNDS, BOILERS AND SIMILAR				Item
		Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	
	<i>Each</i>				
03097	Combined cast iron grate and mantel with fireclay slab cheeks and back, and cast iron fret.....	94.20	99.20	156.20	03097
03098	Tiled slab fireplace surround complete with fireclay slab cheeks and back, and cast iron fret.....	136.60	140.60	223.60	03098
03099	Cast iron grate with separate wood, stone or metal mantel, tiled slab surround, fireclay slab cheeks and back, and cast iron fret.....	123.00	150.00	172.60	03099
03100	Wood, stone or metal mantel only.....	78.60	79.70	118.50	03100
03101	Fireclay slab cheeks and back only.....	39.30	39.90	57.30	03101
03102	Tiled slab raised or flush hearth only.....	22.20	22.70	37.80	03102
03103	Tiled slab curb only.....	11.10	11.70	20.30	03103
03104	Slow combustion type grates (without mantel or tiled surround) complete with heavy fireclay slab cheeks and back, and back hearth.....	55.10	55.50	80.70	03104
03105	Free standing slow combustion type closed stove with flue pipe.....	39.50	40.60	60.10	03105
03106	Free standing range or kitcheners, with single or double ovens, side or high-pressure boilers, and feed cistern if required.....	70.80	71.90	101.00	03106
03107	Domestic boiler, copper, rice container or similar.....	50.20	53.90	75.90	03107
03108	Range or kitcheners (not free-standing) with single or double ovens, side or high-pressure boilers, feed cistern if required.....	128.80	132.80	171.90	03108
03109	Damper and frame, soot door, fire door, fireplace fret or similar (when not included with any of the above fittings).....	11.10	11.70	19.50	03109
	FIXING SUNDRY METAL WORK ITEMS				
	Fix or place in position (fixing material measured separately) : -				
	<i>Each</i>				
03110	Combined gate, tree grilles, covers, fireplace surround, mantel, range, damper and frame, soot door, fire door, fireplace fret, fire bar and the like except manhole covers and frames n.e. 3 kg to concrete, brickwork, blockwork or masonry	11.30	14.10	26.30	03110
03111	Ditto 3 - 12 kg.....	24.00	25.80	35.40	03111
03112	Ditto 12 - 24 kg.....	32.40	32.80	46.20	03112
03113	Add to Item 03112 for each additional 12 kg or part thereof n.e. 100 kg.....	8.20	8.00	11.60	03113
03114	Safe in any weight.....	542.60	627.60	795.40	03114

Section 04

MASONRY

MASONRY

SPECIAL CONDITIONS

Measurement generally	<p>I. All unsquared random rubble walling, hearthing or backing to face of walls shall be measured net and grouped together irrespective of thickness.</p> <p>All squared rubble walling shall be measured net as fixed.</p> <p>No deduction shall be made for : -</p> <p>(a) Openings not exceeding 0.10 m².</p> <p>(b) String courses, cills, lintols and the like not exceeding 100 mm high.</p> <p>Apart from fair facing, no additional rate will be allowed for random rubble walling built curved on plan or battered.</p>
Measurement of squared rubble walls	<p>II. Squared rubble walls as facing to brick, concrete or random rubble hearthing or backing, shall be measured net thickness. No addition shall be measured for the additional volume of the bond stones projecting into or through the hearthing or backing and no deduction shall be made from the hearthing or backing for the volume of such bond stones.</p>
Measurement of polygonal rubble walling or "Kentish Rag"	<p>III. Unless other stated, polygonal rubble walling or "Kentish Rag" shall be measured net as "Extra over" the random rubble walls for fair facing over the whole exposed surface including additional girth of top and bottom returns of oversailing and receding courses, top of the copings and the like.</p> <p>On no account will this "Extra over" item for fair facing be measured where the work is to be plastered, rendered, or otherwise covered up or left rough as trenches, backs, retaining walls and the like.</p>
Measurement of extra over for fair face	<p>IV. Fair facing shall be measured net as "Extra over" the random rubble walls over the whole exposed surface including additional girth of top and bottom returns of oversailing and receding courses, top of copings and the like.</p> <p>On no account will fair facing be measured where the work is to be plastered, rendered, or otherwise covered up or left rough as trenches, backs, retaining walls and the like.</p>
Measurement of battered face	<p>V. Battered faces shall be measured net over the exposed surface area on line of batter as "Extra over" stone wall. Battered faces shall not be measured on random rubble hearthing or backing.</p>
Measurement of cutting opening through walls	<p>VI. The measurement of cutting opening through walls shall be the net size required including allowance for lintel or arch. New lintel or arch shall be measured separately.</p>
Measurement of fully dressed stone	<p>VII. Fully dressed stone shall be measured the smallest square or rectangular shaped block from which it can be worked.</p>
Measurement for cutting, etc., or taking down existing stone	<p>VIII. Measurement for cutting mortices and the like, or taking down existing stone shall include the thickness of any rendering or other surfacing.</p>

SPECIAL CONDITIONS (CONT'D)

- IX. The rates for all random and squared rubble walling, facework and fully dressed stone shall generally include for : -
- Rates for all random and squared rubble walling, facework and fully dressed stone generally**
- (a) Irregular shaped roughly cut random rubble or roughly squared rubble walling.
 - (b) Preparing all existing beds and joints, hoisting, setting, jointing and pointing the work in any position including all joggles, templates, ties, dowels, cramps, other fixing devices and the like.
 - (c) Oversailing and receding courses.
 - (d) Rough and fair cutting and bonding at angles, intersections and the like.
 - (e) Rough relieving and discharging arches.
 - (f) Raking out joints for and pointing as the work proceeds.
 - (g) Bedding and pointing frames, plates and the like.
 - (h) Plumbing angles.
 - (i) Forming reveals, returns, rounded, coved, moulded angles and the like.
 - (j) Leaving or forming chases, notches, holes, grooves, rebates, throats, chamfers, arrises, splays, sinkings, margins, mortices and the like and building in ends, pipes and the like (work where cutting on the face involved shall be measured).
 - (k) Casing or protecting work with slurry, cleaning off and rubbing down on completion if required.
 - (l) Bonding into existing work.
 - (m) Marking for identification and delivery in any matching sequence.
 - (n) Temporary protection and subsequent removal.
- X. The rates for extra over random rubble walling, polygonal rubble walling or “Kentish Rag” for fair face shall further include for : -
- Rates for extra over random rubble walling for fair face**
- (a) Selected quality of random granite rubble in evenness, texture, stainless and sharpness of arrises.
 - (b) Cutting in, replacing with approved quality rubbles and removing inferiority from Site.
- XI. The rates for squared rubble walling shall further include for : -
- Rates for squared rubble walling**
- (a) Preparation of joint faces of each stone to a square and true plane surfaces, free from hollow or rough area.
 - (b) Building quoins and jambs in selected stones each 175 to 250 mm high to bond in with the wall courses if required.
 - (c) Flushing up backing with cement mortar.
 - (d) Making good affected works to match existing.
 - (e) Removal from Site all arisings.

SPECIAL CONDITIONS (CONT'D)

Rates for take down and set aside for re-use

- XII. The rates for take down and set aside for re-use shall include for : -
- (a) Taking down stonework at any locations.
 - (b) Providing, maintaining and dismantling all necessary strutting, shoring and the like, and working platform.
 - (c) Cleaning stonework free from mortar or other contaminations.
 - (d) Multi-handling, storage and delivery of stoneworks to designated locations including that as directed by the Maintenance Surveyor.

Rates for fully dressed granite

- XIII. The rates for fully dressed granite shall further include for : -
- (a) Dressing and fine punching on all exposed surfaces accurately.
 - (b) Forming squared back and punching bed and other sides to produce joints not exceeding 3 mm thick.
 - (c) Setting, bedding, jointing and pointing with flush, struck or recessed joints in cement and granite fines (1:3) mortar.

Rates for cutting opening through walls

- XIV. The rates for cutting opening through walls shall include for : -
- (a) Providing, maintaining and dismantling all necessary strutting, shoring and the like.
 - (b) Levelling, cutting, cutting toothing, dressing and the like.
 - (c) Providing and bonding in new stone, making out jambs, heads and facing and pointing the same to match existing.
 - (d) Cutting and pinning in ends of new walls, lintels and the like.
 - (e) Making good affected works to match existing.
 - (f) Removal from Site all arisings.

Rates for cutting toothings

- XV. The rates for cutting toothings shall include for : -
- (a) Providing, maintaining and dismantling all necessary strutting, shoring and the like.
 - (b) Cutting, dressing and the like.
 - (c) Providing and bonding new stone as required.
 - (d) Making good affected works to match existing.
 - (e) Removal from Site all arisings.

SPECIAL CONDITIONS (CONT'D)

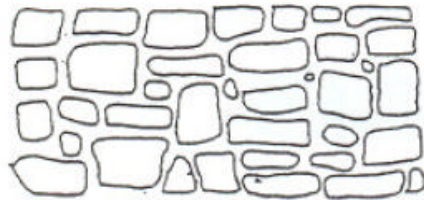
XVI. The rates for cutting holes shall include for : -

**Rates for cutting
holes**

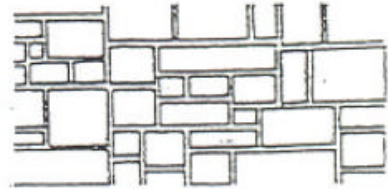
- (a) Mobilization, maintenance and demobilization of coring plant and other mechanical plant necessary for the works.
- (b) Coring through existing stone works including any finishes.
- (c) Providing temporary water and power supplies and working platform as required.
- (d) Grouting in pipes or articles and rendering around reveals with cement mortar as required.
- (e) Making good disturbed surfaces to match existing.
- (f) Removal from Site all arisings.

TYPES OF RUBBLE WALLING

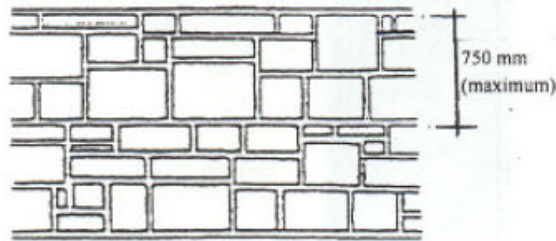
A. Random Rubble



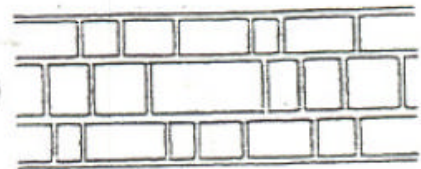
B. Squared uncoarsed rubble



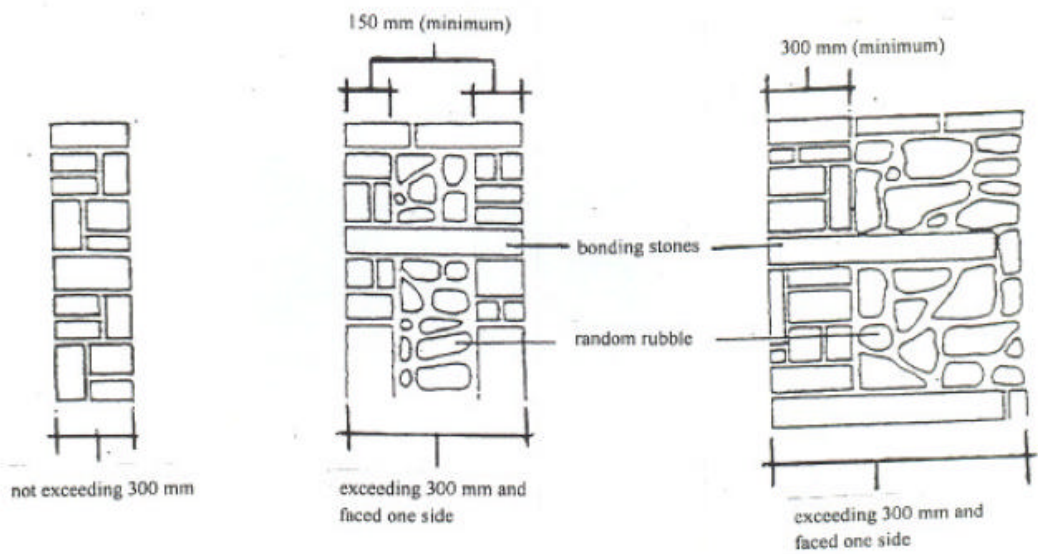
C. Squared rubble brought up to courses



D. Squared coursed rubble

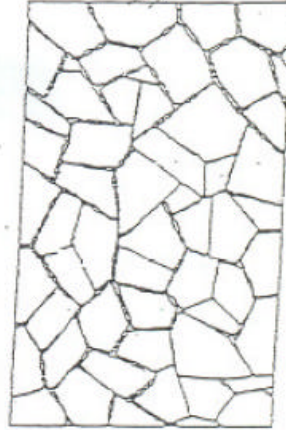


E. Squared rubble walls - sections :-





F. rough-picked polygonal walling



G. close-picked polygonal walling

Item	RANDOM GRANITE RUBBLE WALLING BUILT DRY	Supply and lay	Take down and clear away	Take down and set aside for re-use	Lay only	Item
	<i>Per cubic metre</i>	A \$	B \$	C \$	D \$	
04001	Walling of any thickness.....	1,033.00	218.80	279.30	565.60	04001
	RANDOM GRANITE RUBBLE WALLING SOLIDLY BEDDED AND JOINTED IN CEMENT MORTAR					
	<i>Per cubic metre</i>					
04002	Walling of any thickness.....	1,245.10	241.20	325.40	767.50	04002
04003	Hearthings or backing of any thickness to squared rubble face wall (measured separately).....	1,245.10	241.20	325.40	767.50	04003
	<i>Per square metre</i>				A \$	
04004	Extra over random granite rubble walling or hearthing for fair face in the form as sketch "A".....				18.60	04004
04005	Ditto in the form as sketch "F" (rough - picked polygonal walling).....				22.20	04005
04006	Ditto in the form as sketch "G" (close - picked polygonal walling).....				24.30	04006
04007	Add to either of Items 04004 to 04006 for battered face.....				68.20	04007
	Add to Items 04004 to 04007 inclusive for work built circular on plan to radius n.e. 1.50 m.....				20%	
	Ditto but 1.50 - 15.00 m.....				10%	
	UNCOURSED SQUARED GRANITE RUBBLE WALLING (AS SKETCH "B") SOLIDLY BEDDED AND JOINTED IN CEMENT MORTAR					
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
04008	Walling n.e. 75 mm thick.....	117.80	24.20	36.80	76.50	04008
04009	Ditto but as facing to brick, concrete or random rubble backing (measured separately) including bonding screed.....	148.60	23.50	15.90	107.50	04009
04010	Add to either of Items 04008 to 04009 for each additional 25 mm or part thereof in thickness	37.40	7.80	4.90	23.80	04010
04011	Extra over walling for battered face.....	47.60	-	-	47.60	04011
	Add to either of Items 04008 to 04011 inclusive for work built circular on plan to radius n.e. 1.50 m.....	20%	-	-	20%	
	Ditto but 1.50 - 15.00 m.....	10%	-	-	10%	

Item	SQUARED GRANITE RUBBLE WALLING BROUGHT UP TO COURSES (AS SKETCH "C") SOLIDLY BEDDED AND JOINTED IN CEMENT MORTAR					Item
		Supply and lay	Take down and clear away	Take down and set aside for re-use	Lay only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
04012	Walling n.e. 75 mm thick.....	126.20	26.20	41.00	84.20	04012
04013	Ditto but as facing to brick, concrete or random rubble hearthing or backing (measured separately).....	157.00	25.50	39.70	115.30	04013
04014	Add to either of Items 04012 to 04013 for each additional 25 mm or part thereof in thickness.....	40.50	8.40	13.00	26.80	04014
04015	Extra over walling for battered face.....	47.60	-	-	47.60	04015
	Add to Items 04012 to 04015 inclusive for work built circular on plan to radius n.e. 1.50 m.....	20%	-	-	20%	
	Ditto but 1.50 - 15.00 m.....	10%	-	-	10%	
	SQUARED COURSED GRANITE RUBBLE WALLING (AS SKETCH "D") SOLIDLY BEDDED AND JOINTED IN CEMENT MORTAR					
	<i>Per square metre</i>					
04016	Walling n.e. 75 mm thick.....	135.20	28.20	45.10	92.60	04016
04017	Ditto but as facing to brick, concrete or random rubble hearthing (measured separately).....	163.30	26.80	42.20	121.00	04017
04018	Add to either of Items 04016 to 04017 for each additional 25 mm or part thereof in thickness (up to a maximum of 250 mm).....	44.20	9.20	14.80	30.10	04018
04019	Extra over walling for battered face.....	47.60	-	-	47.60	04019
	Add to Items 04016 to 04019 inclusive for work built circular on plan to radius n.e. 1.50 m.....	20%	-	-	20%	
	Ditto but 1.50 - 15.00 m.....	10%	-	-	10%	

Item	PREPARATION OF SURFACING FINISH TO RUBBLE WALLINGS					Item
		Random rubble walling as Sketch "A", "F" or "G"	Un-coursed squared rubble walling	Squared rubble walling brought up to courses	Regular coursed squared rubble walling	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
04020	Prepare surface to regular convex "rock faced" finish including allowance for additional thickening.....	101.80	70.40	70.40	70.40	04020
04021	Prepare surface finish as G.S. item 10.17 including allowance for additional thickening.....	297.90	201.10	201.10	201.10	04021
	FULLY DRESSED GRANITE					
		Supply and lay	Take down and clear away	Take down and set aside for re-use	Lay only	
	<i>Per cubic metre</i>	A \$	B \$	C \$	D \$	
04022	Ashlar walling or facing in blocks or any size.....	1,575.50	257.10	357.70	848.50	04022
04023	Bands, string courses, door or window jambs and heads, copings, cills, steps, arch stones, road curbs and the like (square or rectangular in section).....	1,737.90	202.60	168.30	1,022.60	04023
	Add to either of Items 04022 to 04023 inclusive for work circular on plan to radius n.e. 1.50 m.....	20%	-	-	20%	
	Ditto but 1.50 - 15.00 m.....	10%	-	-	10%	

Item	CUTTING AND SUNDRY LABOURS ON EXISTING STONE					Item	
	(Note : - The following Items 04024 to 04037 will not be paid for, if working on new works item.)						
		Random rubble walling	Un-coursed squared rubble walling	Squared rubble walling brought up to courses	Regular coursed squared rubble walling	Fully dressed granite	
	Per cubic metre	A \$	B \$	C \$	D \$	E \$	
04024	Cut openings through wall exceeding 0.01 m ³	602.30	623.90	623.90	623.90	968.60	04024
04025	Cut out defective or cracked stone and provide, cut and build in new stone including surface facing and pointing to match existing and make good.....	1,693.50	1,755.10	1,755.10	1,755.10	3,067.00	04025
	Per square metre						
04026	Rake out joints not less than 15 mm deep and re-point with flush, struck, recessed or keyed joint as required in cement mortar.....	58.20	44.30	44.30	44.30	37.60	04026
04027	Redress face to wall where discoloured or badly stained by fine punching (any re-pointing required measured separately).....	-	47.60	47.60	47.60	66.70	04027
04028	Level and prepare top of wall for raising or to receive damp proof course.....	39.70	39.70	39.70	39.70	-	04028
04029	Make good end or face of wall where existing wall which was bonded in has been removed including providing cutting and building in any new stone required and facing and pointing to match existing (vertical face in contact with old wall measured).....	128.00	172.80	172.80	172.80	268.30	04029
04030	Cut toothings not less than 100 mm deep and at not more than 300 mm centres vertically in face of existing wall.....	75.10	75.70	75.70	75.70	87.90	04030
	Each					A \$	
04031	Cut or drill mortice for dowel, baluster end, bracket end, fixing cramp, bolt or similar article n.e. 0.0001 m ³ (net size of article or end measured) and grout in cement and sand (1:2) and make good.....					13.30	04031
04032	Ditto 0.0001 - 0.0002 m ³					23.00	04032
		Thickness of stone (mm)					
		N.e. 150	150 - 300	300 - 450	450 - 600		
	Each	A \$	B \$	C \$	D \$		
04033	Cut hole for pipe or similar article n.e. 0.004 m ²	28.70	57.80	86.50	115.60		04033
04034	Ditto 0.004 - 0.008 m ²	37.00	72.20	107.90	145.30		04034
04035	Ditto 0.008 - 0.017 m ²	57.80	116.20	174.60	232.40		04035

Item	CUTTING AND SUNDRY LABOURS ON EXISTING STONE (CONT'D)					Item		
			Random rubble walling	Un-coursed squared rubble walling	Squared rubble walling brought up to courses	Regular coursed squared rubble walling	Fully dressed granite	
			A \$	B \$	C \$	D \$	E \$	
	<i>Per linear metre</i>							
04036	Rake out single detached joint not less than 15 mm deep and re-point with flush, struck, recessed or keyed joint as required in cement mortar.....	8.60	8.60	8.60	8.60	8.60	8.60	04036
04037	Rake out from wall crack, etc., cut back edges as required and point with flush joint in cement mortar.....	12.90	12.90	12.90	12.90	12.90	12.90	04037
	CUTTING LETTERS IN NEW OR EXISTING STONE							
			Height of letter or number (mm)					
			N.e. 75	75 - 150	150 - 225	225 - 300		
	<i>Each</i>		A \$	B \$	C \$	D \$		
04038	Cut plain block letter or number in face of stone including picking out with painting.....	55.00	94.00	119.20	134.60			04038
04039	Cut Chinese character ditto.....	66.60	114.90	147.00	164.80			04039
	Add to either of Items 04038 to 04039 inclusive for working on existing stonework.....						10%	

Section 05

ROOFING

ROOFING

SPECIAL CONDITIONS

Definition of whole roof slope

- I. Whole roof slope shall mean an area extending from one gable wall to another, from gable wall to hip or valley between two hips, between two valleys, or between hip and valley in length, and from eaves to ridge in breadth and shall include any subsidiary features such as roofs to dormers which may be contained within such area.

Rates for roofing generally

- II. The rates for roofing shall generally include for : -
- (a) Works at any height and locations.
 - (b) Works to new or existing surfaces in repairs.
 - (c) Forming joints and allowing for laps including side and end laps when required.
 - (d) Allowing for cutting, waste and breakage including those at abutments, top edges, verges, hips and valleys.
 - (e) Preparing, cleaning and protection of surfaces to receive roofing materials.
 - (f) Fixing or laying to falls and currents.
 - (g) Sealing at edges, joints and around intersections and projections.
 - (h) All narrow widths and small areas.
 - (i) Cleaning and priming to surfaces prior to applying roofing materials all in accordance with the manufacturer's instructions.
 - (j) Cutting back existing roofing materials to provide joints for new roofing when required.
 - (k) Allowing all cutting, fitting, dressing and making good around rainwater outlets, pipes, flues, openings and the like.
 - (l) Sampling and testing of roofing materials when required.
 - (m) Providing shop drawings as necessary for the works.
 - (n) Providing waterproofed rain shelter or any other covers completed with rigid framing when required throughout the progress of the work to roof areas to prevent the ingress of rain or other water.
 - (o) Providing temporary drainage system throughout the progress of the work.
 - (p) Making good affected areas to match existing.
 - (q) Temporary protective measures, cleaning and removing all arisings.
 - (r) Keep a register of all dangerous substances including those hazardous to health, which are delivered to and stored on Site for use on the Works. The register include information physical and chemical properties, hazards, safe handling and storage, precautionary measures to be taken, first aid measures, disposal of containers and surplus of waste materials, and measures to be taken in case of accidents.
 - (s) Leaving roof clean, windproof and watertight on completion and cleaning out rainwater outlets and gutters.
 - (t) Provision of manufacturer's guarantee.
 - (u) Provision of warranty.

SPECIAL CONDITIONS (CONT'D)**CHINESE TILE ROOFING**

(Note :- Refer to attached sketches for details.)

- | | | |
|------|---|---|
| III. | Roof tiling shall be measured as the net area covered. No deduction shall be made for openings not exceeding 0.50 m ² .

Timber battens, screeds on concrete or other sub-roofs shall be measured separately under Section 08 - Carpentry and Joinery or Section 11 - Plasterwork and other Floor, Wall and Ceiling Finishes of this Schedule. | Measurement of tiling |
| IV. | Any repair work to double layer tiling where only the top layer affected will be paid for at the rates for repair work to single layer tiling. | Measurement of repair work to double layer tiling |
| V. | The rates for Chinese tile roofing shall further include for : -

(a) Roofing to flat, sloping or curved roofs.

(b) Allowing all bedding materials, nails, and labour including covering all rolls, ridges and hip cappings and valleys with mortar.

(c) Spot bedding edges of pan tiles and solid bedding of roll tiles with cement/lime mortar cement, lime putty and sand (1:1:6) and 15 mm thick covers.

(d) Allowing for all lapping between tiles. | Rates for Chinese tile roofing |
| VI. | The rates for ridges and hip cappings and valleys shall further include for all mitred angles, junctions and ends. | Rates for ridges and hip cappings and valleys |
| VII. | The rates for taking down and removing Chinese roof tiling (unglazed/glazed) shall include for : -

(a) Taking down and removing from Site pan and roll tiles, ridges and cappings, valleys, double eave courses and the like.

(b) Taking down and removing from Site timber battens if required.

(c) Taking down and removing from Site all nails, bedding materials and the like. | Rates for taking down and removing Chinese roof tiling (unglazed/glazed) |

CORRUGATED OR PROFILED SHEET ROOFING

- | | | |
|-------|--|--|
| VIII. | Corrugated or profiled sheet roofing shall be measured flat over the net area covered (girth of corrugations not measured) including ridges, hips, valleys, channels, gutters and the like. In the case of sloping roof, it shall be measured flat over the exposed surfaces (girth of corrugations not measured). No deduction shall be made for openings not exceeding 0.50 m ² . | Measurement of corrugated or profiled sheet roofing |
|-------|--|--|

SPECIAL CONDITIONS (CONT'D)

**Rates for
corrugated or
profiled sheet
roofing**

- IX. The rates for corrugated or profiled sheet roofing shall further include for : -
- (a) Allowing all notching and fitting edges of sheets and mitring corners as required, and all mitred angles, junctions and ends on ridges and hips.
 - (b) Allowing all eaves, jambs, lintel filling pieces, barges boards, corner pieces and the like.
 - (c) Spot, fillet or seam welding, brazing or soldering.
 - (d) Drilling holes for and providing all drive screws, self-tapping screws, rivets, bolts, hook bolts, nuts, metal and rubber washers, and plastic caps for fixing to purlins or framing spaced at any interval.
 - (e) Drilling holes to existing or new purlins or framing spaced at any interval for the fixing of corrugated or profiled sheet roofing as required.
 - (f) Forming holes for pipes or articles.
 - (g) Recommended fixing method in accordance with the manufacturer's instructions.
 - (h) Forming movement joints as required.
 - (i) Forming sheets to required curvature on curved roofs.
 - (j) In the case of profiled compressed particle sheet roofing, ridge cappings and hip cappings.
 - (k) In the case of proprietary steel/aluminium sheet roofing, design and submission of calculations and shop drawings including provision of sub-frames.
 - (l) All necessary testing to ensure integrity and water-tightness of the whole roofing system.

BITUMEN FELT BUILT-UP AND BITUMINOUS EMULSION ROOFING

**Measurement
of bitumen felt
built-up and
bituminous
emulsion
roofing**

- X. Bitumen felt built-up and bituminous emulsion roofing shall be measured net over the whole exposed finished top surface, additional girth of vertical or sloping faces and sides or ends of upstands, gutters, flashings, skirtings, edge coverings, steps in roof level and the like. No deduction shall be made for openings not exceeding 0.50 m².

**Rates for
bitumen felt
built-up and
bituminous
emulsion
roofing**

- XI. The rates for bitumen felt built-up and bituminous emulsion roofing shall further include for : -
- (a) Roofing to flat, sloping or curved roofs.
 - (b) Allowing for all laps, cutting and waste on felts and glass fibre membrane where applicable.
 - (c) Dressing to sides or ends of upstands, gutters, flashings, skirtings, edge coverings, steps in roof level and the like, including angles, junctions, turn-in edges, welted drips and the like.
 - (d) Making good surfaces including filling cracks not exceeding 5 mm wide with bitumen or emulsion.
 - (e) Checking the felt roofing works with thermometers as the work proceeds.
 - (f) Replacement of roofing installation if failing in the non-destructive test.

SPECIAL CONDITIONS (CONT'D)**BITUMEN FELT BUILT-UP AND BITUMINOUS EMULSION ROOFING (CONT'D)**

- | | | |
|------|---|--|
| XII. | Measurement of “strip off existing bitumen felt build-up roofing” shall not be measured when the backing screed, sheet roofing or insulation layer is also taking down simultaneously unless it is specifically ordered by the Maintenance Surveyor in writing. | Measurement of
“strip off existing
bitumen felt
build-up roofing
and bituminous
emulsion roofing” |
|------|---|--|

PROPRIETARY ROOFING SYSTEMS

- | | | |
|-------|--|--|
| XIII. | Proprietary roofing systems shall be measured net over the whole exposed finished top surface, additional girth of vertical or sloping faces and sides or ends of upstands, gutters, flashings, skirtings, edge coverings, steps in roof level and the like. No deduction shall be made for openings not exceeding 0.50 m ² . | Measurement
of proprietary
roofing systems |
|-------|--|--|

Proprietary roofing system referred hereinafter shall mean the waterproof Roofing Covering Materials approved by the Maintenance Surveyor.

For avoidance of doubt, all rates in this sub-section shall deem to apply to works executed by the specialists approved by the Maintenance Surveyor for the proprietary roofing system.

- | | | |
|------|---|--|
| XIV. | Measurement of “strip off existing proprietary roofing systems” shall not be measured when the backing screed, sheet roofing or insulation layer is also taking down simultaneously unless it is specifically ordered by the Maintenance Surveyor in writing. | Measurement of
“strip off existing
proprietary roofing
systems” |
|------|---|--|

- | | | |
|-----|---|---|
| XV. | The rates for proprietary roofing systems shall further include for : - | Rates for
proprietary
roofing systems |
|-----|---|---|

- | | | |
|-----|---|--|
| (a) | Roofing to flat, sloping or curved roofs. | |
| (b) | Inspection, preparing, cleaning and drying surfaces including removing all contaminants, dusts, loose stones, debris and the like. | |
| (c) | Dressing to sides or ends of upstands, gutters, flashings, skirtings, edge coverings, steps in roof level and the like, including angles, junctions, turn-in edges, welted drips and the like all in accordance with the manufacturer's instructions. | |
| (d) | Making good surfaces of substrate including filling cracks with bitumen, emulsion or any other materials recommended by the manufacturer's recommendations. | |
| (e) | Replacement of roofing installation if failing in the non-destructive test. | |
| (f) | Providing protective boarding in accordance with the manufacturer's instructions, if required. | |
| (g) | Submission of catalogues, technical literature and other documentation covering the materials supplied. | |
| (h) | Providing all reports, maintenance manuals and deeds of warranty. | |

MASTIC ASPHALT (ROCK ASPHALT) ROOFING

- | | | |
|------|--|---|
| XVI. | All works shall be measured the net area covered. No deduction shall be made for voids not exceeding 0.50 m ² . | Measurement of
mastic asphalt
(rock asphalt)
roofing |
|------|--|---|

SPECIAL CONDITIONS (CONT'D)

MASTIC ASPHALT (ROCK ASPHALT) ROOFING (CONT'D)

Measurement
of skirtings

- XVII. Skirtings shall be measured the height or part thereof of the exposed face girth.
Skirtings exceeding 300 mm high shall be measured as vertical work.

Rates for
mastic asphalt
(rock asphalt)
roofing

- XVIII. The rates for mastic asphalt (rock asphalt) roofing shall further include for : -
- (a) Bringing the boiler or other plant to Site and relocating at different locations when required including fuel, hoisting in positions as necessary and removing from Site on completion.
 - (b) Forming grooves for turning in of asphalt.
 - (c) All temporary rules.
 - (d) Arrises, fair and rounded edges and turn-ins.
 - (e) All angles, stop ends, etc., to internal angle fillets, skirtings, channels, coverings to curbs, upstands and the like.
 - (f) Cleaning and priming to metal surfaces prior to applying asphalt work.
 - (g) Tests at regular intervals both on selected asphalt blocks as delivered to Site and on samples taken from the boiler or cauldron.
 - (h) Allowing laps for isolating membrane and expanded metal lathing reinforcement.
 - (i) Brought to Site cauldrons so as to cause minimum inconvenience and nuisance to occupied premises considered to be air sensitive receivers as determined under EPD's guidelines for air quality assessment.
 - (j) Hoisting the boiler to any height, depth or location and working from that position when so ordered by the Maintenance Surveyor where :-
 - (i) A nuisance may be caused when working from other positions.
 - (ii) Loss of heat to the materials would occur through the distance from any other positions.
 - (k) Multi-handling of boiler and stacking of materials to avoid overloading existing structure.

NON-DESTRUCTIVE TEST

Rates for
non-destructive
test

- XIX. The rates for non-destructive test shall include for : -
- (a) Constructing temporary dams to compartmentalize large roofs as required and subsequent removal.
 - (b) Temporary blocking to all outlets flooding the roof, releasing water and subsequent removal of blockages.
 - (c) Carrying out test of infra-red scanning by an approved independent specialist in accordance with the Particular Specification referred in the Contract including providing all necessary labour, supervisory staff and equipment.
 - (d) In the case of new roofing system, re-testing up to the satisfaction of the Maintenance Surveyor.
 - (e) Submission of reports.

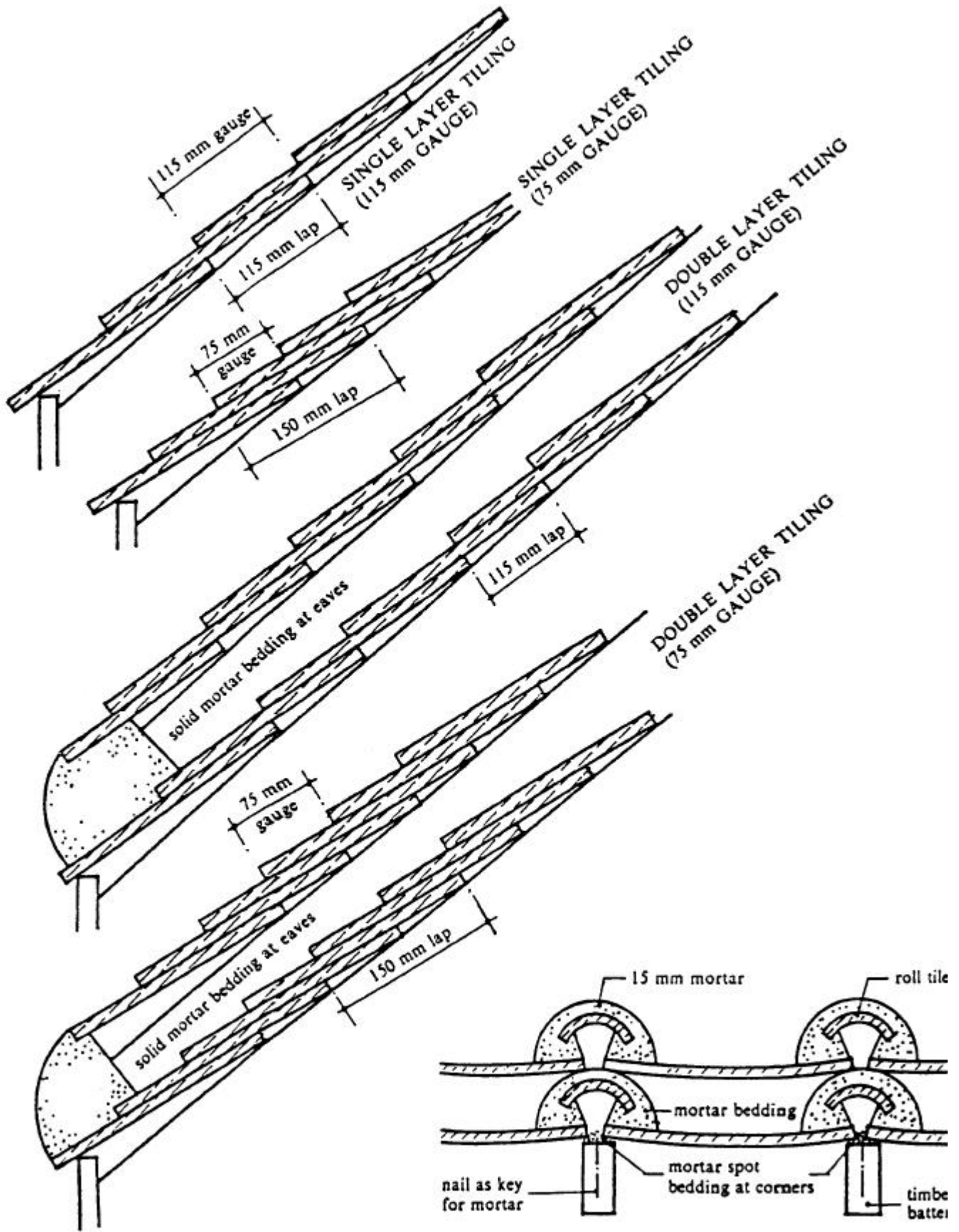
SPECIAL CONDITIONS (CONT'D)**ROOF TILING AND INSULATION BOARD**

- | | | |
|--------|--|--|
| XX. | Roof tiling and insulation board shall generally be measured as the net area covered when fixed or laid. No deduction shall be made for voids not exceeding 0.50 m ² . | Measurement of roof tiling and insulation board generally |
| XXI. | The rates for roof tiling and insulation board shall generally include for : -
(a) Working at any height and locations.
(b) Working to new or existing surfaces in repairs.
(c) All straight or raking cutting and waste.
(d) Narrow widths and small quantities.
(e) All joints between new and existing materials.
(f) Laying level or to slopes and finishing to falls and currents.
(g) Mitred edges to external corners and the like.
(h) Covering up and protecting where necessary. | Rates for roof tiling and insulation board generally |
| XXII. | The rates for clay tiles, concrete tiles, insulating roofing tiles and foam board roofing tiles shall further include for forming expansion joints to roofing tiles as G.S. Item 18.105. | Rates for clay tiles, concrete tiles, insulating roofing tiles and foam board roofing tiles |
| XXIII. | Screeds to roofing or tiling can be found in Section 11 - Plasterwork and Other Floor, Wall and Ceiling Finishes of this Schedule. | Screeds to roofing or tiling |

SPECIFICATION FOR ROOFING

- | | | |
|-------|---|--|
| XXIV. | G.S. clauses for concrete roof tiles and Canton red tiles can be found in the Plasterwork and Other Floor, Wall and Ceiling Finishes Section of the General Specification for Building. | G.S. clauses |
| XXV. | The List of Non-destructive Test Specialists for Roofing Systems can be found in the Particular Specification for Roofing System in the Contract. | Acceptable List for proprietary roofing systems |

CHINESE TILE ROOFING



DOUBLE LAYER TILING—CROSS SECTION

Item	CHINESE TILE ROOFING					Item
		Single layer tiling		Double layer tiling		
		115 mm gauge	75 mm gauge	115 mm gauge	75 mm gauge	
		A	B	C	D	
	<i>Per square metre</i>	\$	\$	\$	\$	
05001	Chinese pan and roll roof tiling laid complete on battens or screed (both measured separately) to sloping roofs.....	196.10	248.80	388.00	492.90	05001
	<i>Per linear metre</i>					
05002	Extra over roof tiling for double course of tiles at eaves.....	15.10	15.10	24.80	24.80	05002
05003	Extra over roof tiling for forming valley with special pan tiles size 225 x 300 mm bedded solid and covered with 25 mm thick minimum cement/lime mortar finished smooth.....	89.70	122.80	179.90	246.10	05003
05004	Extra over roof tiling for forming ridge or hip capping with row of inverted pan tiles with row of roll tiles over, the whole bedded solid and covered with 25 mm thick minimum cement/lime mortar finished smooth.....	52.40	65.00	92.90	116.70	05004
05005	Extra over roof tiling for additional Chinese roll tiles or tile slips placed centrally between rolls to support upper layer of double layer tiling at lowest course at eaves, bedded solid in cement/lime mortar.....	-	-	12.30	12.30	05005
	<i>Each</i>					
05006	Extra over roof tiling for 325 x 225 x 5 mm glass pan tiles.....	27.00	24.80	54.00	49.70	05006
	REPAIRS TO EXISTING ; CHINESE TILE ROOFING					
	<i>Per square metre</i>					
05007	Take down and remove from Site Chinese roof tiling and associated double eaves course ridge and hip cappings and valleys and battens if required.....	25.90	29.00	39.40	44.20	05007
05008	Ditto but in repairs in areas n.e. 5.00 m ² where whole roof slope not completely stripped.....	21.80	24.80	35.00	37.50	05008
05009	Ditto but in repairs in areas exceeding 5.00 m ² where whole roof slope not completely stripped.....	18.40	20.80	29.60	31.60	05009
	<i>Per linear metre</i>					
05010	Take down and replace Chinese roll tiles including bedding and covering in cement/lime mortar and clear away arising.....	47.10	51.00	63.10	68.60	05010
05011	Take down and replace ridge or hip capping including bedding and clear away arising.....	71.90	85.40	99.70	124.80	05011
05012	Rake out and re-point edge of tiling at eaves or verges in cement/lime mortar.....	18.60	18.60	30.50	30.50	05012
	<i>Each</i>					
05013	Take down and replace glass pan tiles size 325 x 225 x 5 mm thick including bedding edges in cement/lime mortar and clear away arising.....	68.40	73.00	133.30	141.00	05013

Item	GLAZED CHINESE TILE ROOFING		Item			
	<i>Per square metre</i>	A \$				
05014	Glazed flat tiles laid complete on battens or screed (both measured separately) to sloping roofs.....	378.70	05014			
	<i>Per linear metre</i>					
05015	Extra over for forming ridge capping including fittings bedded solid with 25 mm thick minimum cement/lime mortar.....	169.30	05015			
05016	Extra over for forming gable capping including fittings bedded solid with 25 mm thick minimum cement/lime mortar.....	81.20	05016			
05017	Extra over for forming eaves including fittings bedded solid with 25 mm thick minimum cement/lime mortar.....	99.10	05017			
	REPAIRS TO EXISTING ; GLAZED CHINESE TILE ROOFING					
	<i>Per square metre</i>					
05018	Take down and remove from Site glazed Chinese tile roofing and associated ridge cappings, gable capping, eaves and fittings and battens if required.....	26.40	05018			
	<i>Per linear metre</i>					
05019	Take down and replace glazed ridge capping including fittings, bedding in cement/lime mortar and clear away arising.....	199.00	05019			
05020	Take down and replace gable capping including fittings, bedding in cement/lime mortar and clear away arising.....	91.70	05020			
05021	Take down and replace eaves including fittings, bedding in cement/lime mortar and clear away arising.....	105.00	05021			
05022	Rake out and re-point edge of tiling at eaves in cement/lime mortar.....	22.20	05022			
	PROFILED UNREINFORCED RIGID PVC SHEET ROOFING					
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
05023	0.80 mm Profiled unreinforced rigid pvc roofing sheet in any profile, colour and transparency fixed to timber framing (measured separately).....	50.50	4.30	6.90	25.90	05023
05024	Ditto but fixed to curved timber framing.....	53.10	4.70	7.40	28.50	05024
05025	0.80 mm Profiled unreinforced rigid pvc roofing sheet in any profile, colour and transparency fixed to steel framing (measured separately).....	52.20	4.60	7.30	27.60	05025
05026	Ditto but fixed to curved steel framing.....	55.00	5.10	8.10	30.40	05026
	<i>Each</i>				A \$	
05027	Cut hole through existing sheet roofing for pipes or articles in any size and thickness.....				6.90	05027

Item	PROFILED GLASS-FIBRE REINFORCED PLASTIC (GRP) SHEET ROOFING					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
<i>Per square metre</i>						
05028	6 mm Profiled glass-fibre reinforced plastic (GRP) sheet roofing in any profile, colour and transparency fixed to timber framing (measured separately).....	204.60	9.80	15.20	57.00	05028
05029	Ditto but 8 mm thick.....	256.90	10.00	15.50	58.70	05029
05030	Ditto but 10 mm thick.....	306.40	10.80	15.90	60.50	05030
05031	Ditto but 12 mm thick.....	356.00	11.00	16.40	62.20	05031
05032	6 mm Profiled glass-fibre reinforced plastic (GRP) sheet roofing in any profile, colour and transparency fixed to curved timber framing (measured separately).....	210.30	10.70	16.60	62.70	05032
05033	Ditto but 8 mm thick.....	262.70	11.00	17.30	64.60	05033
05034	Ditto but 10 mm thick.....	312.40	11.80	17.60	66.50	05034
05035	Ditto but 12 mm thick.....	362.20	12.00	18.00	68.40	05035
05036	6 mm Profiled glass-fibre reinforced plastic (GRP) sheet roofing in any profile, colour and transparency fixed to steel framing (measured separately).....	207.20	10.20	15.70	59.60	05036
05037	Ditto but 8 mm thick.....	259.40	10.40	16.20	61.30	05037
05038	Ditto but 10 mm thick.....	309.00	11.10	16.60	63.10	05038
05039	Ditto but 12 mm thick.....	358.60	11.40	16.90	64.80	05039
05040	6 mm Profiled glass-fibre reinforced plastic (GRP) sheet roofing in any profile, colour and transparency fixed to curved steel framing (measured separately).....	213.20	11.10	17.50	65.60	05040
05041	Ditto but 8 mm thick.....	265.70	11.60	17.80	67.50	05041
05042	Ditto but 10 mm thick.....	315.40	12.10	18.30	69.50	05042
05043	Ditto but 12 mm thick.....	365.10	12.80	18.80	71.30	05043
<i>Each</i>					A \$	
05044	Cut hole through existing sheet roofing for pipes or articles in any size and thickness.....				17.30	05044

Item	PROFILED COMPRESSED PARTICLE SHEET ROOFING					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
05045	12 mm profiled compressed particle roofing sheet in any profile fixed to timber framing (measured separately).....	115.90	10.00	14.30	54.40	05045
05046	Ditto but fixed to curved timber framing.....	121.40	10.90	15.70	59.90	05046
05047	12 mm profiled compressed particle roofing sheet in any profile fixed to steel framing (measured separately).....	119.50	10.60	15.40	58.00	05047
05048	Ditto but fixed to curved steel framing.....	125.40	11.50	16.80	63.90	05048
					A \$	
05049	Each Cut hole through existing sheet roofing for pipes or articles in any size and thickness.....				13.80	05049
	GALVANISED STEEL SHEET ROOFING					
	Steel sheet roofing as G.S. item 12.72 : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
05050	0.60 mm corrugated steel sheet roofing in any corrugation fixed to timber framing (measured separately).....	79.00	5.50	7.30	24.60	05050
05051	Ditto but 0.70 mm thick.....	82.40	5.60	7.60	25.30	05051
05052	Ditto but 0.80 mm thick.....	89.10	5.80	7.80	26.00	05052
05053	Ditto but 0.90 mm thick.....	94.50	6.00	8.00	26.80	05053
05054	Ditto but 1.00 mm thick.....	99.90	6.10	8.20	27.50	05054

Item	GALVANISED STEEL SHEET ROOFING (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per square metre</i>					
05055	0.60 mm corrugated steel sheet roofing in any corrugation fixed to curved timber framing (measured separately).....	81.50	6.00	8.20	27.00	05055
05056	Ditto but 0.70 mm thick.....	84.90	6.10	8.30	27.80	05056
05057	Ditto but 0.80 mm thick.....	91.70	6.30	8.60	28.70	05057
05058	Ditto but 0.90 mm thick.....	97.10	6.50	8.90	29.40	05058
05059	Ditto but 1.00 mm thick.....	102.70	6.70	9.10	30.30	05059
05060	0.60 mm corrugated steel sheet roofing in any corrugation fixed to steel framing (measured separately).....	79.60	5.60	7.60	25.10	05060
05061	Ditto but 0.70 mm thick.....	83.00	5.80	7.80	25.90	05061
05062	Ditto but 0.80 mm thick.....	89.70	5.90	8.00	26.60	05062
05063	Ditto but 0.90 mm thick.....	95.10	6.10	8.20	27.30	05063
05064	Ditto but 1.00 mm thick.....	100.60	6.30	8.50	28.20	05064
05065	0.60 mm corrugated steel sheet roofing in any corrugation fixed to curved steel framing (measured separately).....	81.90	6.10	8.20	27.50	05065
05066	Ditto but 0.70 mm thick.....	85.50	6.30	8.50	28.40	05066
05067	Ditto but 0.80 mm thick.....	92.20	6.40	8.80	29.10	05067
05068	Ditto but 0.90 mm thick.....	97.70	6.60	9.10	30.00	05068
05069	Ditto but 1.00 mm thick.....	103.20	6.80	9.40	30.80	05069
					A	
					\$	
05070	Cut hole through existing sheet roofing for pipes or articles in any size and thickness.....				17.60	05070

Item	PROFILED STEEL SHEET ROOFING					Item
	"Lysaght Trimdek Hi-ten" steel profiled sheeting with "XRW" colorbond finish including purlins and fixing with fasteners or screws in accordance with the manufacturer's recommendations : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
05071	0.47 mm thick steel profiled sheeting fixed to timber framing.....	205.70	5.10	6.90	23.10	05071
05072	Ditto but fixed to curved timber framing.....	208.10	5.60	7.60	25.40	05072
05073	0.47 mm thick steel profiled sheeting fixed to steel framing.....	206.30	5.30	7.20	23.70	05073
05074	Ditto but fixed to curved steel framing.....	208.70	5.80	7.80	26.00	05074
	"Lysaght Kliplik" steel profiled sheeting with "XRW" colorbond finish including purlins and fixing with fasteners or screws in accordance with the manufacturer's recommendations : -					
	<i>Per square metre</i>					
05075	0.53 mm thick steel profiled sheeting fixed to timber framing.....	247.00	5.30	7.20	23.80	05075
05076	Ditto but 0.65 mm thick.....	276.90	5.50	7.30	24.60	05076
05077	0.53 mm thick steel profiled sheeting fixed to curved timber framing.....	249.30	5.80	7.90	26.20	05077
05078	Ditto but 0.65 mm thick.....	279.30	6.00	8.00	26.90	05078
05079	0.53 mm thick steel profiled sheeting fixed to steel framing.....	247.60	5.50	7.30	24.40	05079
05080	Ditto but 0.65 mm thick.....	277.50	5.60	7.60	25.10	05080
05081	0.53 mm thick steel profiled sheeting fixed to curved steel framing.....	250.00	6.00	8.00	26.90	05081
05082	Ditto but 0.65 mm thick.....	280.00	6.10	8.30	27.60	05082
	GALVANISED STEEL FLASHING, CAPPING, ETC.					
	"Lysaght" steel profiled sheeting with XRW colorbond finish fixing in fasteners or screws in accordance with the manufacturer's recommendations : -					
	<i>Per linear metre</i>					
05083	0.60 mm thick steel flashing or capping n.e. 200 mm girth.....	28.10	1.30	1.70	4.80	05083
05084	Ditto 200 - 400 mm girth.....	82.40	3.80	5.10	14.60	05084
05085	Ditto 400 - 600 mm girth.....	137.00	6.30	12.70	24.10	05085
05086	Ditto 600 - 800 mm girth.....	197.30	11.20	15.50	33.60	05086
05087	Ditto 800 - 1000 mm girth.....	257.80	12.90	17.80	43.30	05087
	Add to either of Items 05083 to 05087 for curved works.....	10%	-	-	10%	

Item	GALVANISED STEEL SHEET RIDGING, GUTTERS, ETC.				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>1 mm thick galvanised mild steel sheet (painting measured separately) : -</i>					
	<i>Per linear metre</i>					
05088	Ridge or hip plain capping of approximately 450 mm girth with 75 mm roll, lapped 150 mm at end joints (measured net).....	49.90	5.70	7.80	21.90	05088
05089	Ditto but both edges corrugated, cut and scribed as necessary to suit sheet roofing (measured net).....	55.80	7.20	9.90	27.50	05089
05090	Half-octagonal shaped valley gutter of approximately 300 x 175 mm deep, lapped 150 mm at end joints (measured net).....	66.60	7.00	9.70	26.80	05090
	ALUMINIUM SHEET ROOFING					
	<i>Per square metre</i>					
05091	0.60 mm corrugated aluminium sheet roofing in any corrugation and colour fixed to timber framing (measured separately)	358.60	4.50	6.00	19.90	05091
05092	Ditto but 0.70 mm thick.....	432.40	4.70	6.30	20.60	05092
05093	Ditto but 0.80 mm thick.....	486.10	4.80	6.40	21.20	05093
05094	Ditto but 0.90 mm thick.....	540.00	4.90	6.60	21.90	05094
05095	Ditto but 1.00 mm thick.....	600.30	5.00	6.70	22.50	05095
05096	0.60 mm corrugated aluminium sheet roofing in any corrugation and colour fixed to curved timber framing (measured separately).....	360.60	4.90	6.60	21.90	05096
05097	Ditto but 0.70 mm thick.....	434.40	5.10	6.90	22.70	05097
05098	Ditto but 0.80 mm thick.....	488.30	5.20	7.00	23.40	05098
05099	Ditto but 0.90 mm thick.....	542.10	5.40	7.30	24.10	05099
05100	Ditto but 1.00 mm thick.....	602.50	5.50	7.50	24.70	05100
05101	0.60 mm corrugated aluminium sheet roofing in any corrugation and colour fixed to steel framing (measured separately).....	359.60	4.70	6.30	20.90	05101
05102	Ditto but 0.70 mm thick.....	433.40	4.80	6.40	21.60	05102
05103	Ditto but 0.80 mm thick.....	487.10	5.00	6.70	22.20	05103
05104	Ditto but 0.90 mm thick.....	541.10	5.10	6.90	23.10	05104
05105	Ditto but 1.00 mm thick.....	601.50	5.30	7.20	23.70	05105
05106	0.60 mm corrugated aluminium sheet roofing in any corrugation and colour fixed to curved steel framing (measured separately).....	361.80	5.10	6.90	23.10	05106
05107	Ditto but 0.70 mm thick.....	435.60	5.30	7.20	23.80	05107
05108	Ditto but 0.80 mm thick.....	489.50	5.50	7.30	24.60	05108
05109	Ditto but 0.90 mm thick.....	543.30	5.60	7.60	25.30	05109
05110	Ditto but 1.00 mm thick.....	603.70	5.80	7.80	25.90	05110

Item	ALUMINIUM SHEET ROOFING (CONT'D)					Item
	<i>Each</i>	A \$				
05111	Cut hole through existing sheet roofing for pipes or articles in any size and thickness.....	16.10				05111
ALUMINIUM FLASHING, CAPPING, ETC.						
0.60 mm thick aluminium colorbond finish fixing in fasteners or screws : -						
	<i>Per linear metre</i>	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
05112	0.60 mm thick steel flashing or capping n.e. 200 mm girth.....	64.60	1.30	1.70	4.80	05112
05113	Ditto 200 - 400 mm girth.....	82.40	3.80	5.10	14.60	05113
05114	Ditto 400 - 600 mm girth.....	151.60	6.30	12.70	24.10	05114
05115	Ditto 600 - 800 mm girth.....	228.90	11.20	15.50	33.60	05115
05116	Ditto 800 - 1000 mm girth.....	274.40	12.80	17.80	43.30	05116
	Add to either of Items 05112 to 05116 for curved works.....	10%	-	-	10%	
ALUMINIUM SHEET RIDGING, GUTTERS, ETC.						
1.00 mm thick aluminium colorbond finish fixing in fasteners or screws : -						
<i>Per linear metre</i>						
05117	Ridge or hip plain capping of approximately 450 mm girth with 75 mm roll, lapped 150 mm at end joints (measured net).....	149.10	5.70	7.80	21.90	05117
05118	Ditto but both edges corrugated, cut and scribed as necessary to suit sheet roofing (measured net).....	166.90	7.20	9.90	27.50	05118
05119	Half-octagonal shaped valley gutter of approximately 300 x 175 mm deep, lapped 150 mm at end joints (measured net).....	206.10	7.00	9.70	26.80	05119
PROPRIETARY STEEL/ALUMINIUM SHEET ROOFING						
"Hoesch Trapezoidal Profiles" roofing system comprising 0.75mm thick trapezoidal profiled steel shell with GALVANLUME AZ 185 coating (25 microns thick) on visible sides and protective layer (RSL) on the reverse side (10 microns thick) in any colour including subgrit, purlins and fixing with approved stainless steel fasteners to level or sloping framing all in accordance with the proprietary supplier's recommendations : -						
<i>Per square metre</i>						
05120	"E35/E40" series roofing panels.....	492.20	6.30	8.60	28.20	05120
"Hoesch Isodach Integral-n" sandwich roofing system comprising 0.75mm thick trapezoidal profiled steel outer shell and 0.55mm thick slightly profiled inner shell with GALVANLUME AZ 185 coating (25 microns thick) on visible sides and protective layer (RSL) on the reverse side (10 microns thick) in any colour enclosing a continuous core of polyurethane rigid foam (HCFC-free) including subgrit, purlins and concealed fixing with integral roof clamps in the longitudinal joint and approved stainless steel fasteners to level or sloping framing all in accordance with the proprietary supplier's recommendations : -						
<i>Per square metre</i>						
05121	"TI. 751-n" series roofing panels.....	4,183.70	22.30	25.70	84.80	05121

Item	PROPRIETARY STEEL/ALUMINIUM SHEET ROOFING (CONT'D)					Item
	"Hoesch" 0.75mm thick steel sheeting with GALVALUME AZ 185 coating (25 microns thick) on visible sides and protective layer (RSL) on the reverse side (10 microns thick) in matching colour to the sandwich roofing system, including forming into any component shape and required girth including subgrit, purlins and fixing with all necessary clamps and approved stainless steel fasteners all in accordance with the proprietary supplier's recommendations : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$	
05122	Drip flashing.....	356.90	6.70	9.40	31.00	05122
05123	Fascia flashing.....	479.90	7.50	10.40	34.20	05123
05124	Eave flashing.....	307.60	6.10	8.30	27.90	05124
05125	Toothed plate complete with foam filler at ridge.....	307.60	7.40	10.20	34.10	05125
05126	Fascia corner flashing, ridge flashing, verge flashing and the like.....	393.80	7.40	10.20	34.10	05126
05127	Fascia capping, ridge capping and the like.....	295.30	7.40	10.20	34.10	05127
	"FISCHER" Fischer TRAPEZ 35/207 roofing system comprising 0.75mm thick steel (S320 GD to EN 10147) trapezoidal profile with zinc galvanizing (55% AlZn AZ 185 to DIN 10215), with 25 microns polyester coating on the exterior surface and 10 microns reverse side coating (RSL) on the interior surface including subgrit, purlins and fixing with stainless steel self-tapping screws with stainless steel washer (with vulcanized EDPM layer) to level or sloping framing all in accordance with the manufacturer's recommendations : -					
	<i>Per square metre</i>					
05128	"35/207" series roofing panels.....	516.80	6.30	8.60	28.20	05128
	"FISCHER" 0.75mm thick steel (S350 GD to EN 10147) flashing with zinc galvanizing (55% AlZn AZ 185 to EN 10215), with 25 microns polyester coating on the exterior surface with matching colour to cladding profile and 10 microns reverse side coating (RSL) on the interior surface including press-forming to the shape and girth including subgrit, purlins and fixing with all necessary stainless steel self-tapping screws all in accordance with the manufacturer's recommendations : -					
	<i>Per linear metre</i>					
05129	Drip flashing.....	258.40	6.70	9.40	31.00	05129
05130	Fascia flashing.....	430.70	7.50	10.40	34.20	05130
05131	Eave flashing.....	283.00	6.10	8.30	27.90	05131
05132	Toothed plate complete with foam filler at ridge.....	283.00	7.40	10.20	34.10	05132
05133	Fascia corner flashing, ridge flashing, verge flashing and the like.....	344.50	7.40	10.20	34.10	05133
05134	Fascia capping, ridge capping and the like.....	258.40	7.40	10.20	34.10	05134
	"FISCHER" Fischer THERM DL80-Plus sandwich roofing panel (concealed fixing type) comprising 0.75 mm thick coil-galvanized (S350 GD+G275 to EN 10147) trapezoidal profile steel outer shell with 25 microns PVF ² coating, continuous core of polyurethane rigid foam, 0.55 mm thick coil-galvanized slightly profiled steel inner shell with 10 microns Polyester coating, proprietary factory-applied EDPM sealing profile along longitudinal joint including subgrit, purlins and fixing with all necessary stainless steel self-tapping screws with spherical cap, proprietary roll-formed steel concealed fixing capping with matching colour on every pitch of sandwich panel all in accordance with the manufacturer's recommendations : -					
	<i>Per square metre</i>					
05135	"Fischer THERM DL80-Plus" series roofing panels.....	3,913.00	22.30	25.70	84.80	05135

Item	PROPRIETARY STEEL/ALUMINIUM SHEET ROOFING (CONT'D)					Item
	"FISCHER" 0.75mm thick coil-galvanized (S350 GD+G275 to EN 10147) steel flashing with 25 microns PVF ² coating on weather side with matching colour to sandwich roof panel and 10 microns protective coating (RSL) on the other side, including press-forming to the shape and girth including subgrit, purlins and all necessary stainless steel self-tapping screws all in accordance with the manufacturer's recommendations : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$	
05136	Drip flashing.....	270.70	6.70	9.40	31.00	05136
05137	Fascia flashing.....	455.30	7.50	10.40	34.20	05137
05138	Eave flashing.....	307.60	6.10	8.30	27.90	05138
05139	Toothed plate complete with foam filler at ridge.....	283.00	7.40	10.20	34.10	05139
05140	Fascia corner flashing, ridge flashing, verge flashing and the like.....	344.50	7.40	10.20	34.10	05140
05141	Fascia capping, ridge capping and the like.....	270.70	7.40	10.20	34.10	05141
	Proprietary aluminium roofing system comprising 1.00 mm thick in 65/400 profile with PVDF 2 coats finish (23-25microns) on weather side for outer liner in one single sheet for the whole roof run (no end laps allowed) and 0.80mm thick Kaibau TR 35/200 of the same material as the outer liner with polyester coating on underside as the inner liner infilled evenly with 100mmthcik mineral wool with fire performance complying BS476 Part compressed to 85mm at a density of 40kg/m ³ with vapour barrier including subgrit, purlins and fixing with necessary ST-Clips and approved self-tapping screws all in accordance with proprietary suppliers recommendations, on site fabricated system to achieve a maximum thermal insulation U-value of 0.4W/m2K and minimum Weighted Sound Reduction Index of 31dB with test report showing the compliance to BS 5821 Part 3:1984 and minimum 10 years of material warranty is to be provided on completion.					
	<i>Per square metre</i>					
05142	Proprietary series insulated roofing system	3,046.40	26.00	31.00	101.70	05142
	<i>Per linear metre</i>					
05143	Flashing to fascia.....	314.00	8.90	10.20	34.10	05143
05144	Flashing to drip.....	390.70	6.70	9.40	31.00	05144
05145	Flashing to eave.....	310.80	6.00	8.30	27.90	05145
05146	Flashing to corner flashing, ridge flashing and verge flashing, etc.....	443.50	7.40	10.20	34.10	05146
05147	Flashing to capping, ridge capping and the like.....	327.30	7.40	10.30	34.10	05147
05148	Toothed plate complete with foam filler n.e. 1.00 m high.....	314.00	8.90	10.20	34.10	05148
05149	Gutter in any size.....	240.00	8.50	6.80	9.70	05149

Item	BITUMEN FELT BUILT-UP ROOFING	Nominal weight		Item				
		1.8 kg/m ²	2.5 kg/m ²					
		A \$	B \$					
	<i>Per square metre</i>							
05150	Underlayer of bitumen felt fixed to timber roof including nails.....	33.80	43.30	05150				
05151	Ditto but laid on screed or concrete roof including primer and bonding.....	43.90	51.80	05151				
05152	Subsequent underlayer of bitumen bonded to underlayer including bonding compound.....	41.00	50.50	05152				
05153	Top layer bonded to underlayers with bonding compound.....	-	50.50	05153				
	<i>Per square metre</i>		A \$					
05154	Surface dressing with stone chippings on and including base coat of bitumen compound.....		83.40	05154				
	REPAIRS TO EXISTING ; BITUMEN FELT BUILT-UP ROOFING							
	<i>Per square metre</i>							
05155	Strip off existing bitumen felt built-up roofing (any number of layers) fixed on timber battens.....		7.70	05155				
05156	Ditto but laid on screed or concrete surfaces.....		11.60	05156				
	BITUMINOUS EMULSION ROOFING							
	<i>Per square metre</i>							
		Concrete	Concrete, Canton tiled roof surface	Corrugated steel roof surface	Profiled particle sheet roof surface	Bitumen felt built-up roof surface		
		roof surface	vertical surface					
		A \$	B \$	C \$	D \$	E \$	F \$	
05157	Apply wash coat, priming coat, two coats Type 3 Bitumen Emulsion.....	42.20	50.00	57.70	-	57.70	-	05157
05158	Ditto but with three coats to last.....	54.20	62.90	71.60	-	71.60	-	05158
05159	Apply wash coat, priming coat, one coat Type 3 Bitumen Emulsion, one layer of glass fibre membrane and two coats Type 3 Bitumen Emulsion as G.S. item 12.31.....	74.80	86.40	98.00	-	98.00	-	05159
05160	Ditto but with three coats Type 3 Bitumen Emulsion to last as G.S. item 12.32.....	84.80	97.90	111.00	-	111.00	-	05160
05161	Apply wash coat and primer to grooves, filling grooves with Type 3 Bitumen Emulsion and sand (1:3) by volume, apply one coat PF4 Solution and two coats Type 5 Bitumen Emulsion including cutting out cracks exceeding 5 mm wide as G.S. item 12.33	-	-	-	-	-	79.10	05161
05162	Apply one coat PF4 Solution, one coat Type 3 Bitumen Emulsion, one layer of glass fibre membrane and two coats Type 3 Bitumen Emulsion as G.S. item 12.34	-	-	-	82.70	-	-	05162

Item	BITUMINOUS EMULSION ROOFING (CONT'D)			Item
		Thickness of base coat		
		3 mm	5 mm	
		A \$	B \$	
	<i>Per square metre</i>			
05163	Surface dressing with clean and sharp sand, one base coat of compound composed of cement, Type 3 Bitumen Emulsion and sand (1:8:32) volume.....	20.90	26.70	05163
05164	Surface dressing with two coats "Alubit" protective coating.....	37.90	43.60	05164
05165	Surface dressing with two coats "Decoralt" coloured coating.....	40.20	46.00	05165
	REPAIRS TO EXISTING ; BITUMINOUS EMULSION ROOFING			
			A \$	
	<i>Per square metre</i>			
05166	Strip and clean off existing bituminous emulsion roofing (any number of coats) complete with any glass fibre membrane on screed or concrete roofs, and remove from Site including making good surfaces to receive new surfacing if required.....		8.30	05166
05167	Ditto but on corrugated steel or profiled compressed particle sheet (measured flat over corrugations or profiles).....		12.00	05167
	<i>Per linear metre</i>			
05168	Point joints of corrugated steel or profiled compressed particle sheet with Type 5 Bitumen Emulsion, apply PF4 Solution, apply one coat Type 3 Bitumen Emulsion, apply one layer glass fibre membrane and apply two coats Type 3 Bitumen Emulsion, 150 mm wide.....		26.40	05168
	MASTIC ASPHALT (ROCK ASPHALT) ROOFING	Thickness (mm)		
		13	20	
		A \$	B \$	
	<i>Per square metre</i>			
05169	Two coats covering on screed or concrete, horizontal.....	-	73.10	05169
05170	Ditto, sloping.....	-	78.70	05170
05171	Two coats covering with and including isolating membrane on screed or concrete, horizontal.....	-	90.30	05171
05172	Ditto, sloping.....	-	96.60	05172
05173	Two coats covering with and including isolating membrane and plain expanded metal lathing on screed or concrete, horizontal	-	120.60	05173
05174	Ditto, sloping.....	-	127.60	05174
	<i>Per linear metre</i>			
05175	Two coats covering to skirting on screed or concrete n.e. 150 mm high.....	29.90	-	05175
05176	Ditto, 150 - 225 mm high.....	39.10	-	05176
05177	Ditto, 225 - 300 mm high.....	44.50	-	05177
05178	Two coats covering to linings of channels and the like on screed or concrete n.e. 150 mm girth.....	32.30	-	05178
05179	Ditto, 150 - 300 mm girth.....	43.30	-	05179
05180	Ditto, 300 - 450 mm girth.....	-	61.60	05180

Item	SOLAR PROTECTION				Item	
	<i>Per square metre</i>			A		
				\$		
05181	Dress surface with bitumen compound and stone chippings.....			28.70	05181	
05182	Prepare and apply two coats reflective paint on asphalt surfaces, sloping.....			25.00	05182	
05183	Ditto, vertical.....			26.90	05183	
	REPAIRS TO EXISTING ; MASTIC ASPHALT ROOFING					
	<i>Per square metre</i>					
05184	Strip and clean off existing mastic asphalt roofing (any thickness) and associated isolating membrane and reinforcement on screed or concrete roof, and remove from Site including making good surfaces to receive new surfacing if required.....			17.30	05184	
	<i>Each</i>					
05185	Cut through complete thickness of mastic asphalt roofing, prepare for inspection by the Maintenance Surveyor in patch approximately 0.10 m ² and reseal after inspection the position as directed by the Maintenance surveyor..... (Note : - This item will only be paid for, if ordered by the Maintenance Surveyor in writing.)			55.60	05185	
05186	Make good mastic asphalt dressing around pipes, rainwater outlets, etc. and the like.....			13.60	05186	
	PROPRIETARY ROOFING SYSTEMS					
	Apply sheet membrane or liquid applied waterproofing roofing coverings as ordered to the following new or existing surfaces : -					
	<i>Per square metre</i>					
05187	Concrete, screed, asphalt/felt membrane covering roof	100.30	136.00	116.90	147.70	05187
05188	Corrugated steel/compressed particle sheet covering roof.....	-	-	135.40	166.10	05188
05189	Chinese tiled roof (measured flat over tiles)	-	-	135.40	166.10	05189
	REPAIRS TO EXISTING ; PROPRIETARY ROOFING SYSTEM					
	<i>Per square metre</i>					
05190	Strip off and clean existing waterproofing roof coverings and associated skirtings, flashings, etc., and the like, remove from Site including making good surfaces to receive new surfacing if required.....	15.70	15.70	15.70	15.70	05190
	CLAY TILES					
	"Canton" red clay tiles 300 to 400 mm square and 30 to 35 mm thick : -					
	<i>Per square metre</i>					
05191	Tiling laid, bedded solid and jointed and pointed in cement mortar (1:4) on screed or roof covering (measured separately).....	132.70	8.10	8.50	15.40	05191
05192	Ditto but bedded, jointed and pointed in hot bitumen.....	149.40	8.50	9.30	17.00	05192

Item	CONCRETE ROOFING TILES					Item
	Concrete roofing tiles and fitting as BS EN 490 and BS EN 491 : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
05193	Tiling laid with 15 mm wide open joints and bedded solid and pointed in cement mortar (1:4) on screed or roof covering (measured separately) size 300 x 300 x 30 mm thick.....	87.90	8.10	8.50	15.40	05193
05194	Ditto but bedded, jointed and pointed in hot bitumen.....	104.70	8.50	9.30	17.00	05194
05195	Tiling laid with 15 mm wide open joints and bedded solid and pointed in cement mortar (1:4) on screed or roof covering (measured separately) size 400 x 400 x 35 mm thick.....	96.10	7.70	7.70	13.90	05195
05196	Ditto but bedded, jointed and pointed in hot bitumen.....	112.70	8.00	8.30	15.30	05196
	INSULATING ROOFING TILES					
	Insulating roofing tiles 300 or 400 mm square and 40 mm thick : -					
	<i>Per square metre</i>					
05197	Tiling laid with 15 mm wide open joints and bedded solid and pointed in cement mortar (1:4) on screed or roof covering (measured separately).....	140.40	8.10	8.50	15.40	05197
05198	Ditto but bedded, jointed and pointed in hot bitumen.....	157.20	8.50	9.30	17.00	05198
	FOAM BOARD ROOFING TILES					
	Approved concrete foam board roofing tiles of any size and thickness embedded with extruded cellular polystyrene foam which is free from halogenated hydrocarbon, CFCs, HCFCs and HFCs burning behaviour is to be Class B1, non readily ignitable. Maximum Compressive Load shall not be less than 300 kN. Temperature different between both sides when tile is heated on one side for 1 hour shall be greater than 15°C.					
	<i>Per square metre</i>					
05199	Tiling laid with 15 mm wide open joints and bedded solid and pointed in cement mortar (1:4) on screed or roof covering (measured separately).....	232.70	8.10	8.50	24.10	05199
05200	Ditto but bedded, jointed and pointed in hot bitumen.....	249.40	8.50	9.30	40.80	05200
	EXTRUDED POLYSTYRENE FOAM BOARD					
	Extruded cellular polystyrene foam board shall be free from halogenated hydrocarbon, CFCs, HCFCs or HFCs Burning behaviour is to be Class B1, non readily ignitable. Density is less than 33 kg/m ³ thermal conductivities are 28, 27, and 27mW.m ⁻¹ .k ⁻¹ for 25 mm, 40 mm and 50 mm thick respectively : -					
	<i>Per square metre</i>					
		Thickness (mm)				
		25	40	50		
		A \$	B \$	C \$		
05201	Extruded cellular polystyrene foam board laid on screed or concrete (measured separately).....	71.30	98.60	111.60		05201
	NON-DESTRUCTIVE TEST					
	<i>Each</i>					
05202	Flooding test in accordance with G.S. item 12.117.....				A \$	05202
05203	Ditto for inspection of existing roofing system.....				4,114.60	05203

Section 06

TANKING

TANKING

SPECIAL CONDITIONS

- | | |
|---|--|
| Measurement of asphalt tanking | <p>I. Measurement of asphalt tanking shall be : -</p> <p>(a) All works shall be measured the net area covered.</p> <p>(b) Work inclined to more than 15 degrees to the horizontal is described as sloping. If less than 15 degrees, it is included in horizontal.</p> <p>(c) No deduction shall be made for voids not exceeding 0.50 m².</p> |
| Measurement of skirtings | <p>II. Skirtings shall be measured the height or part thereof of the exposed face girth.</p> <p>Skirting exceeding 300 mm high shall be measured as vertical work.</p> |
| Measurement of covering to sides and bottom of sumps, cesspools and the like | <p>III. Covering to sides and bottom of sumps, cesspools and the like shall be measured net on the area covered. Covering where exceeding 2.00 m², to sides and bottom of a sump, cesspool and the like, shall be measured as covering to general surfaces.</p> |
| Rates generally | <p>IV. The rates for asphalt tanking shall include for : -</p> <p>(a) Bringing the boiler or other plant to Site and relocating at different locations when required including fuel, hoisting in positions as necessary and removing from Site on completion.</p> <p>(b) Works at any height, depth and locations.</p> <p>(c) Preparing, cleaning and protection of surfaces to receive mastic asphalt.</p> <p>(d) Forming grooves for turning in of asphalt.</p> <p>(e) All temporary rules.</p> <p>(f) Laying to falls and currents.</p> <p>(g) All narrow widths.</p> <p>(h) Arrises, fair and rounded edges and turn-ins.</p> <p>(i) All angles, stop ends, etc., to internal angle fillets, skirtings, channels, coverings to curbs, upstands and the like.</p> <p>(j) Dressing around pipes and any services installations and making good.</p> <p>(k) Cleaning and priming to metal surfaces prior to applying asphalt work.</p> <p>(l) Cutting back existing asphalt tanking to provide joints for new asphalt tanking.</p> <p>(m) Tests at regular intervals both on selected asphalt blocks as delivered to Site and on samples taken from the boiler or cauldron.</p> <p>(n) Sampling and testing of flexible sheet membrane.</p> <p>(o) Allowing laps for flexible sheet membrane and expanded metal lathing reinforcement.</p> <p>(p) In the case of metal lathing reinforcement, providing reinforcement in accordance with G.S. Item 12.59 and approved fixing method other than nailing.</p> |

SPECIAL CONDITIONS (CONT'D)

IV.	(q)	Locating and relocating cauldrons to minimize inconvenience and nuisance to occupied premises considered to be air sensitive receivers as determined under the Environmental Protection Department's guidelines for air quality assessment.	Rates generally (cont'd)	
	(r)	Hoisting the boiler to any height, depth or location and working from that position when so ordered by the Maintenance Surveyor where : - (i) A nuisance may be caused when working from other positions. (ii) Loss of heat to the materials would occur through the distance from any other positions.		
	(s)	Multi-handling of boiler and stacking of materials to avoid overloading existing structure.		
	(t)	Providing shop drawings showing construction details including angles, corners, construction joints, pipe intrusions, jointing to existing asphalt tanking and the like.		
	(u)	Providing temporary coverings throughout the progress of the work to prevent the ingress of rain or other water.		
	(v)	Providing temporary drainage system and dewatering system throughout the progress of the work.		
	(w)	Temporary protection, cleaning and removing all arisings.		
V.		Protective brickwork or blockwork can be found in Section 03 - Brickwork and Blockwork of this Schedule.		Protective brickwork or blockwork items

Item	ASPHALT TANKING	Thickness (mm)		Item
		20	30	
		A \$	B \$	
	<i>Per square metre</i>			
06001	Three coats covering on concrete, horizontal surfaces.....	-	189.10	06001
06002	Ditto, sloping surfaces.....	-	199.60	06002
06003	Ditto, vertical surfaces.....	182.90	-	06003
06004	Three coats covering with and including flexible membrane on concrete, horizontal surfaces.....	-	247.20	06004
06005	Ditto, sloping surfaces.....	-	257.70	06005
06006	Ditto, vertical surfaces.....	241.10	-	06006
06007	Three coats covering with and including flexible membrane and metal lathing reinforcement on concrete, horizontal surfaces.....	-	276.30	06007
06008	Ditto, sloping surfaces.....	-	286.80	06008
06009	Ditto, vertical surfaces.....	270.20	-	06009
	<i>Per linear metre</i>			
06010	Three coats skirting n.e. 150 mm high.....	61.10	-	06010
06011	Ditto 150 - 225 mm high.....	73.70	-	06011
06012	Ditto 225 - 300 mm high.....	85.50	-	06012
06013	Three coats skirting with and including flexible membrane n.e. 150 mm high.....	66.50	-	06013
06014	Ditto 150 - 225 mm high.....	88.50	-	06014
06015	Ditto 225 - 300 mm high.....	101.60	-	06015
06016	Three coats skirting with and including flexible membrane and metal lathing reinforcement n.e. 150 mm high.....	69.60	-	06016
06017	Ditto 150 - 225 mm high.....	94.80	-	06017
06018	Ditto 225 - 300 mm high.....	110.10	-	06018

Item	ASPHALT TANKING (CONT'D)		Item
	<i>Each</i>	A \$	
06019	Three coats covering to sides and bottom of sumps, cesspools, etc., and the like n.e. 0.50 m ²	205.60	06019
06020	Ditto 0.50 - 1.00 m ²	265.60	06020
06021	Ditto 1.00 - 1.50 m ²	385.10	06021
06022	Ditto 1.50 - 2.00 m ²	436.10	06022
06023	Three coats covering with and including flexible membrane to sides and bottom of sumps, cesspools, etc., and the like n.e. 0.50 m ²	224.80	06023
06024	Ditto 0.50 - 1.00 m ²	313.00	06024
06025	Ditto 1.00 - 1.50 m ²	458.60	06025
06026	Ditto 1.50 - 2.00 m ²	541.70	06026
06027	Three coats covering with and including flexible membrane and metal lathing reinforcement to sides and bottom of sumps, cesspools, etc. and the like n.e. 0.50 m ²	236.60	06027
06028	Ditto 0.50 - 1.00 m ²	338.70	06028
06029	Ditto 1.00 - 1.50 m ²	504.90	06029
06030	Ditto 1.50 - 2.00 m ²	596.30	06030

Section 07

SCAFFOLDING AND STAGING

SCAFFOLDING AND STAGING

SPECIAL CONDITIONS

Scaffolding, screens and staging generally

- I. Throughout this Schedule, rates for all trades shall include for use and waste of all types of scaffolding and staging for the execution of the Works. No payment will be made for scaffolding and staging under any circumstances except for the following : -
- (a) Scaffolding and staging are specifically ordered by the Maintenance Surveyor in writing and stating that the scaffolding and staging are for the exclusive use of the Maintenance Surveyor for carrying out design inspections or the exclusive use of the Employer and other contractor employed by the Employer within the Works Order period.

In the event where the scaffolding and staging mentioned in sub-clause (a) above are subsequently used by the Contractor himself, no payment will be made.

Similarly, rates for all trades shall include for screens covering up and protecting works from damage caused by dust, sun, rain and similar hazards, and protecting the public from dust, nuisance, falling rubbish and the like.

No payment will be made for screens under any circumstance except where specifically ordered by the Maintenance Surveyor in writing and stating that they are for the exclusive use of the Employer.

Measurement of staging

- II. Staging to soffits of building or structure shall be measured net plan area as erected between the outmost supporting members of the staging. The height of the staging shall be measured from the working platform to the average founding level where it is erected. No deduction shall be made for opening not exceeding 1.00 m².

Measurement of scaffolding

- III. Scaffolding shall be measured net face area as erected between the two outmost uprights of the scaffolding. The height of the scaffolding shall be measured from the average founding levels to the top continuous effective horizontal rails. No deduction for opening shall be made.

Measurement of "Extra over" for screens

- IV. "Extra over" for screens fixed to scaffolding shall be measured net to the areas as fixed. No deduction shall be made for opening not exceeding 2.00 m².

Rates for scaffolding generally

- V. The rates for scaffolding shall generally include for : -
- (a) Provision and erection on Site of all materials including poles, uprights, rails, bracings, etc., timber, lashings, struts, wedges, boarding, toe boards, spikes, screws, bolts, straps, brackets, clamps and the like and any safety nettings, safety fans, sloping catch fans, protective canopy all as specified in the Particular Specifications in the Contract.
- (b) Making good any damage caused to walls and other surfaces during use, erection and taking down.
- (c) Repairing and maintaining throughout the period of use in first or subsequent positions. Providing all necessary inspection report(s) as required by the Construction Site (Safety) Regulations.
- (d) Complying with codes and standards of G.S. Items 1.34 and 1.39.1 to 1.39.8.
- (e) Approval by Authorised Persons and Registered Structural Engineers.

SPECIAL CONDITIONS (CONT'D)

- VI. The rates for metal scaffolding shall further include for : - **Rates for metal scaffolding**
- (a) Delivery to and erection on Site, repairing and maintaining throughout the period of use in first or subsequent positions and taking down and setting aside for re-erection or removing from Site.
 - (b) Proprietary or non-proprietary type.
 - (c) Providing and assembling all materials including poles, rails, supports, struts, ladders, bracings, working platform and any other accessories in accordance with the recommendations of the system.
- VII. The rates for "Extra over" for screens shall include for : - **Rates for "Extra over" for screens**
- (a) Providing and fixing screens to scaffolding, repairing and maintaining throughout the period of use in first or subsequent positions and taking down and setting aside for re-erection or removing from Site.
 - (b) All fixing accessories.
 - (c) Sealing up joints, forming opening and finishing any portion as doors or flaps.
 - (d) Allowing for laps.
 - (e) Making good any damage caused during use, erection and taking down.
- VIII. The rates for staging shall include for : - **Rates for staging**
- (a) Delivery to and erection on Site, repairing and maintaining throughout the period of use in first or subsequent positions, and taking down and setting aside for re-erection or removing from Site.
 - (b) Providing and assembling all materials including poles, rails, supports, struts, ladders, bracings, working platform, swivel casters with brake, jack base and any other accessories to support any imposed loads in accordance with the recommendations of the staging.
 - (c) Proprietary or non-proprietary type.
 - (d) Making good any damage during use including replacement if required.
 - (e) Allowance for ensuring no overloading the staging.

Item	SCAFFOLDING AND SCREENS (OTHER THAN METAL SCAFFOLDING)		Item
	Erect, maintain, take down and clear away :-	A	
	<i>Per square metre</i>	\$	
07001	Scaffolding comprising a single framework of uprights and horizontal rails.....	51.70	07001
07002	Scaffolding comprising a double framework of uprights and horizontal rails of free standing scaffolding.....	59.10	07002
07003	Extra over either of Items 07001 to 07002 for providing screens of woven polyethylene sheet (Nei lung tso pao) or other suitable coverings.....	8.00	07003
07004	Blast or landslip protection screen constructed of steel framings closely erected, and braced and strutted at not more than 1.20 m centres, or other approved construction covered with expanded metal or chain link mesh and fixed screen including concrete footings or movable concrete blocks and make good after completion.....	403.40	07004
07005	Woven polyethylene sheet (Nei lung tso pao) laid on slopes, etc. as protection including stakes, pegs, bamboo supports, etc. as necessary.....	8.70	07005
	<i>Per linear metre high</i>		
07006	Tower of inspection scaffolding.....	49.10	07006
	METAL SCAFFOLDING AND SCREENS		
	Erect, maintain, take down and clear away :-		
	<i>Per square metre</i>		
07007	Metal scaffolding comprising a single framework of uprights and horizontal rails.....	139.30	07007
07008	Metal scaffolding comprising a double framework of uprights and horizontal rails of free standing scaffolding.....	151.60	07008
07009	Extra over either of Items 07007 to 07008 for providing screens of woven polyethylene sheet or other suitable coverings recommended by the system.....	8.00	07009
	<i>Per linear metre high</i>		
07010	Tower of inspection scaffolding.....	187.00	07010
	STAGING		
	Erect, maintain, take down and clear away :-		
	<i>Per square metre</i>		
07011	Metal staging n.e. 4.00 m high.....	151.60	07011
07012	Ditto 4.00 - 8.00 m high.....	194.70	07012
07013	Ditto 8.00 - 11.00 m high.....	237.70	07013
07014	Ditto 11.00 - 15.00 m high.....	323.40	07014
07015	Ditto 15.00 - 19.00 m high.....	409.70	07015

Section 08

CARPENTRY AND JOINERY

CARPENTRY AND JOINERY

SPECIAL CONDITIONS

TEMPORARY BARRIERS

Temporary barriers

- I. Throughout this Schedule, rates for all trades shall include for all temporary preventive and protective measures necessary for the execution of the work, such as to protect new or existing works, and to protect the public from harm, dust or nuisance. No payment will be made for temporary barriers under any circumstance, with the following exceptions : -
- (a) Temporary barriers specifically ordered by the Maintenance Surveyor in writing and specifically stating that the temporary barriers are for the exclusive use of the Employer and other contractor employed directly by the Employer within the Works Order period.

In the event that the temporary barriers mentioned in sub-clause (a) above are subsequently used as preventive and protective measures by the Contractor themselves, no payment will be made.

The temporary barriers shall be measured the length on plan as fixed.

No measurement shall be made for anchor bolts.

Rates for temporary barriers

- II. The rates for temporary barriers shall include for : -
- (a) Delivering to and erecting on Site, repairing and maintaining throughout the period of use in first or subsequent positions, and taking down and setting aside for re-erection or clearing away.
- (b) Providing all materials including poles, struts, cover boarding and the like.
- (c) Preparing and applying or touching up paint to all surfaces including writings and logos in single or multi-colour paints.
- (d) Providing and fixing anchor bolts, nuts and washers.
- (e) Providing adequate lighting and warning lights and payment of all charges incurred.
- (f) Making good any damage caused to pavings and other surfaces during use, erection and taking down.

CARPENTRY AND JOINERY WORK

Measurement generally

- III. All sizes and thicknesses shall be finished sizes and thicknesses.

Measurement of carpentry and joinery timber

- IV. Carpentry and joinery timber shall be measured as the net length or area fixed, of the smallest finished square or rectangular section from which the piece can be cut. Timber members shall be measured flush over joints, no allowance shall be made for tenon and housing, tongue and groove, and the like at joints.

Fillets, shelving, lining and the like exceeding 150 mm wide shall be measured as boarding.

The depth and thickness of sawn or wrot scantlings shall be measured and rounded up to the nearest 5 mm. Scantlings of intermediate sizes will be paid for pro-rata on sectional area basis.

SPECIAL CONDITIONS (CONT'D)

- | | | |
|-------|---|--|
| V. | Boarding, weather boarding, floor boarding, wood block and parquet flooring, plywood and all other building boards, wood wool slabs and the like shall all be measured as the net area covered when fixed or laid. No deduction shall be made for openings not exceeding 0.50 m ² .

When stated, the width of boarding shall mean the exposed face width when fixed.

Timber members shall be measured flush over joints, no allowance shall be made for tenon and housing, tongue and groove, and the like at joints.

Timber boarding shall be measured and rounded up to the nearest 5 mm. | Measurement of
boarding, flooring,
plywood, etc. |
| VI. | Fibreglass insulating quilts shall be measured as the net area covered. No deduction shall be made for openings not exceeding 0.50 m ² . | Measurement of
fibreglass quilts |
| VII. | Each leaf of doors hung folding or in two heights shall be measured separately. | Measurement of
folding doors, etc. |
| VIII. | Ironmongery items can be found in Section 09 - Ironmongery of this Schedule. | Ironmongery items |
| IX. | Circular windows shall be measured square, semi-circular or segmental portion of windows and doors with semi-circular or segmental heads shall be measured rectangular, i.e. net width by net height from springing. | Measurement
of circular or
segmental heads
to doors and
windows |
| X. | Solid surfacing materials shall be measured as the net plan area inclusive of fittings. The Area of any backsplash, bullnose, front apron and inlay or the like shall not be measured. No deduction shall be made for openings not exceeding 0.50 m ² .

Backsplash, bullnose, front apron and inlay, integral wash basin or sink bowls and the like shall be measured as "Extra over" solid surfacing material in which they occur. The rates for such items shall include the labour and material and other costs necessary for the items. | Measurement
of solid surfacing
material |
| XI. | The rates shall generally include for any or all of the following as applicable : -

(a) Setting out, framing up and straight, raking or circular cutting and waste.

(b) Fixing items complete, true and level including scribing to new or existing work in any position, fixing in clips or to cramps, embedding in concrete, screeds and the like, or screwing or bolting to steel. (Special clips, bolts, cutting rebates in concrete or other surfaces and drilling steel, etc., all measured separately.)

(c) Fixing items in piecing out and replacing existing defective material which has been cut out and removed. (Cutting out of defective material measured separately.)

(d) Providing all nails, pins, tacks, screws, cups and screws, adhesive, mastics, white lead and any other fixing and jointing materials.

(e) Notching, cutting and fitting, drilling for screws and boring for bolts including counter-sinking screw, bolt heads and nuts, and pelleting when required. | Rates generally |

SPECIAL CONDITIONS (CONT'D)

Rates generally (cont'd)	XI.	(f) Executing all plugging required for fixing to new or existing concrete, brick, stone or other surfaces, with rawplugs or other approved proprietary plugs including all drilling and cutting mortices or alternatively using "Ramset" or other similar approved power operated fixing system.
		(g) Narrow widths and small quantities.
		(h) Gluing, forming splayed or rounded edges, holes, housing ends, ship-lap joints, mitres, ends and shaped ends, angles, junctions, heading joints, short lengths and the like.
		(i) Forming tongued angles, chamfers, rebates, grooves and the like.
		(j) Forming all mortices and tenons, housed, dovetailed and other framed joints and providing hardwood or teak pins, wedges, keys and the like when required.
		(k) Submission of an authenticated certificate from the Forest Stewardship Council (FSC) or other approved authority to substantiate the source of supply from a sustainable forest or plantation.
Rates for boarding and flooring	XII.	The rates for boarding and flooring shall further include for : -
		(a) Providing and fixing boards in matching widths of any face width required.
		(b) Cramping and wedging up if required.
		(c) Forming cross-tongued in lieu of tongued and grooved boarding if required.
		(d) In the case of tongued and grooved or cross-tongued boarding, ripping off tongue, cutting back grooves and planning edges flat and square exposed surfaces.
Rates for opening sashes, jalousies and doors	XIII.	The rates for opening sashes, jalousies and doors shall further include for : -
		(a) Hanging on hinges, rising butts, sliding track, pivots and the like (ironmongery measured separately).
Rates for wrot timber	XIV.	The rates for wrot timber shall further include for : -
		(a) Punching nail heads, counter sinking screws and the like.
		(b) Stopping and sanding to exposed surfaces.
		(c) Preparing surfaces for painting or polishing.
		(d) In the case of wrot softwood, notwithstanding the botanical classification, it shall include beech, birch, cherry, chestnut, maple, ash, oak, pine and zen.
Rates for fire resisting doors	XV.	The rates for proprietary fire resisting doors shall further include for : -
		(a) Supply and installation in accordance with the manufacturer's instructions.
		(b) Providing and fixing all accessories, ironmongeries (except emergency panic device with alarm system and digital locking device), intumescent materials for protection, etc. recommended by the manufacturer.

SPECIAL CONDITIONS (CONT'D)

XV.	<ul style="list-style-type: none"> (c) Providing and fixing door frames. (d) Sealing edges with door seals. (e) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required. (f) Grouting into new or existing mortice or holes. (g) Finishing all surfaces. (h) Making good disturbed surfaces. (i) Providing test certificate, operation manual and manufacturer's guarantee. 	Rates for fire resisting doors (cont'd)
XVI.	<p>The rates for folding partitions shall further include for where applicable : -</p> <ul style="list-style-type: none"> (a) Supply and installation in accordance with the manufacturer's instructions, including all necessary design and calculations as required. (b) Providing and fixing all accessories, ironmongeries, suspension system, etc. recommended by the manufacturer. (c) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required. (d) Grouting into new or existing mortice or holes. (e) Finishing all surfaces, if required. (f) Making good disturbed surfaces. (g) Sealing with vinyl acoustical seals and twin-finger contact type vinyl strips sweep seals as G.S. Items 22.83 and 22.84. (h) Providing test certificate, operation manual and manufacturer's guarantee. 	Rates for folding partitions
XVII.	<p>The rates for screen fabric and synthetic leather covering shall further include for : -</p> <ul style="list-style-type: none"> (a) All straight or raking cutting and waste, holes and fittings. (b) Executing work in any position, at any height and on new or existing surfaces. (c) All staples, adhesive and the like. (d) Covering up and protecting. 	Rates for screen fabric and synthetic leather covering
XVIII.	<p>The rates for solid surfacing materials shall further include for : -</p> <ul style="list-style-type: none"> (a) All accessories necessary for the works. (b) Pointing, jointing and sealing edges with sealant. (c) Forming holes for pipes, watertaps, building services installations, basin, sink and the like. (d) Providing and fixing all necessary brackets for sinks, basins and the like. (e) Submission of catalogues, technical literature, samples, shop drawings and manufacturer's guarantee. 	Rates for solid surfacing material

SPECIAL CONDITIONS (CONT'D)**Rates for acoustic doors**

- XIX. The rates for acoustic doors shall further include for :-
- (a) Supply and installation in accordance with the manufacturer's instructions.
 - (b) Providing and fixing all accessories, ironmongeries, sound proof/absorbing materials, etc. recommended by the manufacturer.
 - (c) Providing and fixing door frames where required.
 - (d) Sealing door edges with acoustic door seals.
 - (e) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
 - (f) Grouting into new or existing mortice or holes.
 - (g) Finishing all surfaces.
 - (h) Making good disturbed surfaces.
 - (i) Providing test certificate, operation manual and manufacturer's guarantee.

G.S. clauses for folding partition

- XX. The G.S. clauses for folding partition can be found in the Internal Fitting and Fixtures Section of the General Specification for Building.

Rates for sport flooring system

- XXI. The rates for sport flooring system shall further include for : -
- (a) Shop drawings.
 - (b) Samples of flooring showing complete range of colours and all components.
 - (c) Mock up as required by Maintenance Surveyor.
 - (d) Operating and maintenance manuals.

Item	TEMPORARY BARRIERS						Item
			Erect, maintain, take down and clear away	Erect, maintain and left-in position	Take down and clear away		
	<i>Per cubic metre</i>		A \$	B \$	C \$		
08001	Sawn hardwood in scantlings and boarding in temporary barriers.....	4,999.70	4,691.20	308.60		08001	
	<i>Per square metre</i>						
08002	25 mm Plywood covering.....	89.50	107.20	4.80		08002	
CARPENTRY AND JOINERY							
SAWN SCANTLINGS							
Sawn timber scantlings exceeding 0.004 m ² sectional area and not less than 40 mm thick fixed in rafters, trusses, purlins, floor joists, unexposed wall and partition studs, frames and the like : -							
	<i>Per linear metre</i>	Sawn hardwood					
		Thickness (mm)					
		40	50	75	100	150	
		A \$	B \$	C \$	D \$	E \$	
08003	Depth 75 mm.....	-	-	30.40	38.30	54.10	08003
08004	Ditto 100 mm.....	-	26.80	38.30	49.80	69.20	08004
08005	Ditto 125 mm.....	25.90	33.50	45.40	57.20	84.30	08005
08006	Ditto 150 mm.....	30.10	38.30	54.10	69.20	100.80	08006
08007	Ditto 200 mm.....	38.70	50.50	69.90	88.60	131.10	08007
08008	Ditto 250 mm.....	50.20	58.40	86.20	110.30	161.60	08008
08009	Ditto 300 mm.....	58.10	69.90	101.30	132.60	194.10	08009
	Add to either of Items 08003 to 08009 inclusive for scantlings cut curved from solid timber including dowelling and keying sections together					35%	

Item	SAWN SCANTLINGS (CONT'D)										Item															
	<table border="1"> <thead> <tr> <th colspan="3">Sawn hardwood</th> </tr> <tr> <th colspan="3">Sectional area (m²)</th> </tr> <tr> <th>0.004 - 0.008</th> <th>0.008 - 0.016</th> <th>Exc. 0.016</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>										Sawn hardwood			Sectional area (m ²)			0.004 - 0.008	0.008 - 0.016	Exc. 0.016	A	B	C	\$	\$	\$	
Sawn hardwood																										
Sectional area (m ²)																										
0.004 - 0.008	0.008 - 0.016	Exc. 0.016																								
A	B	C																								
\$	\$	\$																								
	<i>Per linear metre</i>																									
08010	Take down and clear away scantlings exceeding 0.004 m ² sectional area and not less than 40 mm thick.....										08010															
08011	Take down and set aside for re-use ditto.....										08011															
08012	Fix only scantlings including making all joints.....										08012															
	<table border="1"> <thead> <tr> <th>Hard-wood</th> <th>Teak</th> </tr> <tr> <th>A</th> <th>B</th> </tr> <tr> <th>\$</th> <th>\$</th> </tr> </thead> </table>										Hard-wood	Teak	A	B	\$	\$										
Hard-wood	Teak																									
A	B																									
\$	\$																									
	<i>Per square metre</i>																									
08013	Plane and sand down surface of existing scantlings in position to produce wrot face including punching nail heads.....										08013															
	WROT SCANTLINGS																									
	Wrot timber scantlings exceeding 0.004 m ² sectional area and not less than 40 mm thick fixed in rafters, trusses, purlins, floor joists, unexposed wall and partition studs, frames and the like : -																									
	<i>Per linear metre</i>																									
	Wrot hardwood					Wrot teak																				
	Thickness (mm)					Thickness (mm)																				
	40	50	75	100	150	40	50	75	100	150																
	A	B	C	D	E	F	G	H	I	J																
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$																
08014	Depth 75 mm.....	-	-	34.30	43.00	60.60	-	-	63.90	82.00	118.30	08014														
08015	Ditto 100 mm.....	-	30.30	43.00	55.80	77.30	-	55.40	82.00	108.80	153.50	08015														
08016	Ditto 125 mm.....	29.30	37.80	50.80	63.90	93.90	54.20	71.90	99.00	126.00	188.70	08016														
08017	Ditto 150 mm.....	34.00	43.00	60.60	77.30	112.30	63.50	82.00	118.30	153.50	226.00	08017														
08018	Ditto 200 mm.....	43.60	56.60	78.10	98.70	145.70	82.70	109.80	154.50	198.20	296.40	08018														
08019	Ditto 250 mm.....	56.30	65.40	96.20	123.10	179.90	109.40	127.90	191.40	246.40	364.00	08019														
08020	Ditto 300 mm.....	65.10	78.10	112.90	147.70	216.00	127.40	154.50	226.60	298.60	437.60	08020														
	Add to either of Items 08014 to 08020 inclusive for scantlings cut curved from solid timber including dowelling and keying sections together										35%															

Item	WROT SCANTLINGS (CONT'D)							Item
		Wrot hardwood			Wrot teak			
		Sectional area (m ²)			Sectional area (m ²)			
		0.004 - 0.008	0.008 - 0.016	Exc. 0.016	0.004 - 0.008	0.008 - 0.016	Exc. 0.016	
		A	B	C	D	E	F	
		\$	\$	\$	\$	\$	\$	
	<i>Per linear metre</i>							
08021	Take down and clear away wrot timber scantlings exceeding 0.004 m ² sectional area and not less than 40 mm thick.....	3.30	5.70	9.20	3.80	6.50	10.60	08021
08022	Take down and set aside for re-use ditto.....	3.80	6.20	10.40	4.50	7.40	12.40	08022
08023	Fix only ditto including making all joints.....	27.10	42.60	72.00	32.70	51.10	86.50	08023
	SAWN SMALL SCANTLINGS, GROUNDS, FILLETS AND THE LIKE							
	Sawn timber small scantlings n.e. 0.004 m ² sectional area and not more than 150 mm wide fixed in grounds, fillets and the like : -							
		Sawn hardwood						
		Thickness (mm)						
		15	20	25	30	40	50	
		A	B	C	D	E	F	
		\$	\$	\$	\$	\$	\$	
	<i>Per linear metre</i>							
08024	Depth 5 mm.....	5.80	6.10	6.20	6.50	6.90	7.30	08024
08025	Ditto 15 mm.....	7.00	7.40	7.70	8.10	9.00	9.80	08025
08026	Ditto 20 mm.....	7.40	8.00	8.50	8.90	10.00	11.10	08026
08027	Ditto 25 mm.....	7.70	8.50	9.10	9.80	11.20	12.60	08027
08028	Ditto 40 mm.....	9.00	10.00	11.20	12.50	14.40	16.20	08028
08029	Ditto 50 mm.....	9.80	11.10	12.60	13.90	16.20	18.30	08029
08030	Ditto 75 mm.....	12.70	14.30	15.90	17.40	20.70	23.90	08030
08031	Ditto 100 mm.....	14.90	17.00	19.10	21.10	25.30	-	08031
08032	Ditto 150 mm.....	18.60	21.80	24.80	-	-	-	08032
	Add to either of Items 08024 to 08032 inclusive for small scantlings bent to curve to radius n.e. 15 m during fixing by means of saw cuts, steam bending, etc.....							20%
	Ditto for small scantlings cut curved from solid timber including dowelling and keying sections together.....							35%

Item	SAWN SMALL SCANTLINGS, GROUNDS, FILLETS AND THE LIKE (CONT'D)	Item	
		Sawn hard-wood	
		A	
		\$	
08033	Take down and clear away sawn timber scantlings n.e. 0.004 m ² sectional area and not more than 150 mm wide.....	2.60	08033
08034	Take down and set aside for re-use ditto.....	4.50	08034
08035	Fix only ditto including making all joints.....	11.40	08035
	<i>Per square metre</i>		
08036	Plane and sand down surface of existing scantling in position to produce wrot face including punching nail heads as necessary.....	53.20	08036

WROT SMALL SCANTLINGS, FILLETS AND THE LIKE

Wrot timber small scantlings n.e. 0.004 m² sectional area and not more than 150 mm wide fixed in fillets, bearers, framing to cupboard and fittings, louvre blades, skirtings, architraves, beads, stops and the like : -

	Wrot hardwood						Wrot teak							
	Thickness (mm)						Thickness (mm)							
	15	20	25	30	40	50	15	20	25	30	40	50		
	A	B	C	D	E	F	G	H	I	J	K	L		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>													
08037	Depth 5 mm.....	8.80	9.10	9.30	9.70	10.20	10.70	10.50	10.90	11.40	11.80	12.60	13.40	08037
08038	Ditto 15 mm.....	10.30	10.80	11.20	11.80	12.90	13.90	13.30	14.30	15.00	15.90	17.90	19.70	08038
08039	Ditto 20 mm.....	10.80	11.60	12.20	12.70	14.10	15.40	14.30	15.50	16.60	17.60	20.10	22.50	08039
08040	Ditto 25 mm.....	11.20	12.20	13.10	14.10	15.50	17.00	15.00	16.60	18.30	19.80	22.60	25.40	08040
08041	Ditto 40 mm.....	12.90	14.10	15.50	16.90	19.30	21.50	17.90	20.10	22.60	25.10	29.60	33.80	08041
08042	Ditto 50 mm.....	13.90	15.40	17.00	18.60	21.50	24.50	19.70	22.50	25.40	28.40	33.80	39.10	08042
08043	Ditto 75 mm.....	17.60	19.60	21.30	23.00	26.80	30.60	25.60	29.40	33.00	36.50	44.10	51.70	08043
08044	Ditto 100 mm.....	20.40	22.80	25.20	27.50	32.20	-	30.50	35.30	40.30	45.00	54.60	-	08044
08045	Ditto 150 mm.....	24.80	28.50	31.90	-	-	-	38.80	46.10	53.30	-	-	-	08045

Item	WROT SMALL SCANTLINGS, FILLETS AND THE LIKE (CONT'D)						Item																														
	Wrot softwood small scantlings n.e. 0.004 m ² sectional area and not more than 150 mm wide fixed in fillets, bearers, framing to cupboard and fittings, louvre blades, skirtings, architraves, beads, stops and the like :- <i>Per linear metre</i>																																				
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Wrot softwood																																					
Thickness (mm)																																					
15	20	25	30	40	50																																
A	B	C	D	E	F																																
\$	\$	\$	\$	\$	\$																																
08046	Depth 5 mm.....	10.70	11.10	11.50	11.80	12.50	13.20	08046																													
08047	Ditto 15 mm.....	12.70	13.50	14.00	14.80	16.40	17.80	08047																													
08048	Ditto 20 mm.....	13.50	14.40	15.40	16.00	18.10	20.00	08048																													
08049	Ditto 25 mm.....	14.00	15.30	16.70	17.90	20.10	22.20	08049																													
08050	Ditto 40 mm.....	16.40	18.10	20.10	22.10	25.60	28.80	08050																													
08051	Ditto 50 mm.....	17.80	20.00	22.20	24.70	28.80	32.80	08051																													
08052	Ditto 75 mm.....	22.80	25.60	28.30	30.90	36.60	42.30	08052																													
08053	Ditto 100 mm.....	26.80	30.20	34.00	37.40	44.60	-	08053																													
08054	Ditto 150 mm.....	33.10	38.60	43.90	-	-	-	08054																													
	Add to either of Items 08037 to 08054 inclusive for small scantlings bent to curve to radius n.e. 15 m during fixing by means of saw cuts, steam bending, etc.....						20%																														
	Ditto for small scantlings cut curved from solid timber including dowelling and keying sections together.....						35%																														
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Wrot hard-wood	Wrot teak	Wrot soft-wood																																			
A	B	C																																			
\$	\$	\$																																			
08055	Take down and clear away wrot timber scantlings n.e. 0.004 m ² sectional area and not more than 150 mm wide.....	2.60	2.90	2.90				08055																													
08056	Take down and set aside for re-use ditto.....	4.50	5.00	5.00				08056																													
08057	Fix only ditto including making all joints.....	15.60	18.70	18.70				08057																													

Item **BOARDING**

Item

Boarding in furniture, coverings, fittings, linings, window reveals and similar positions, including weather boarding, exceeding 150 mm in width :-

Hardwood							Teak									
Thickness (mm)							Thickness (mm)									
15	20	25	30	40	45	50	15	20	25	30	40	45	50			
A	B	C	D	E	F	G	H	I	J	K	L	M	N			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
<i>Per square metre</i>																
08058	Sawn boarding.....	100.10	122.40	144.60	170.50	215.00	237.20	263.10	-	-	-	-	-	08058		
08059	Wrot boarding.....	114.40	138.40	163.90	193.40	242.90	266.90	296.30	197.70	246.20	294.60	353.00	451.20	498.20	556.60	08059
08060	Ditto tongued and grooved.....	138.50	169.40	200.20	231.10	288.90	319.80	350.70	246.00	307.40	368.80	430.10	544.30	605.70	667.00	08060
08061	Ditto tongued, grooved and "V" or bead jointed one face.....	145.70	177.30	206.60	240.50	299.70	331.10	362.80	252.60	314.60	376.60	439.50	554.10	616.10	678.10	08061
08062	Ditto tongued, grooved and "V" or bead jointed both faces.....	159.10	191.00	225.00	258.00	319.90	352.70	385.70	262.70	325.80	400.40	452.80	569.40	632.30	695.30	08062

Per square metre

Softwood									
Thickness (mm)									
15	20	25	30	40	45	50			
A	B	C	D	E	F	G			
\$	\$	\$	\$	\$	\$	\$			
08063	Wrot boarding.....	159.50	196.00	232.50	276.50	350.90	430.00	08063	
08064	Ditto tongued and grooved.....	205.40	252.50	299.50	346.50	434.50	481.50	528.50	08064
08065	Ditto tongued, grooved and 'V' or bead jointed one face.....	212.00	259.70	307.30	356.00	444.30	491.90	539.60	08065
08066	Ditto tongued, grooved and 'V' or bead jointed both faces.....	222.10	270.80	322.60	369.20	459.50	508.10	556.80	08066

Add to either of Items 08058 to 08066 inclusive for boarding bent to curve to radius n.e. 15 m during fixing by means of saw cuts, steam bending, etc..... 20%

Ditto for boarding cut curved from solid timber including dowelling and keying sections together..... 35%

Item **BOARDING (CONT'D)**

Item

Sawn hard-wood	Wrot hard-wood	Wrot teak
A \$	B \$	C \$
53.20	26.60	39.90

Per square metre

08067 Plane and sand down surface of existing boarding in position to produce wrot face including punching nail heads as necessary..... 08067

Hardwood		Teak		Softwood	
Square edge boarding	Tongued and grooved boarding	Square edge boarding	Tongued and grooved boarding	Square edge boarding	Tongued and grooved boarding
A \$	B \$	C \$	D \$	E \$	F \$
15.60	16.80	22.00	23.90	22.00	23.90
18.40	28.40	27.80	41.70	27.80	41.70
68.80	105.40	82.30	147.50	82.30	147.50

Per square metre

08068 Take down and clear away existing sawn or wrot boarding of any thickness..... 08068

08069 Take down and set aside for re-use ditto..... 08069

08070 Fix only ditto..... 08070

Hard-wood	Teak	Soft-wood
A \$	B \$	C \$
5.50	8.40	8.40
11.10	16.90	16.90

Per linear metre

08071 Forming rebate, groove, splay, chamfer, bead, rounded angle, tongue, flute, cove, moulding or similar labour on existing boarding in position..... 08071

08072 Ditto but circular to radius n.e. 15.00 m..... 08072

CARPENTRY AND JOINERY

08067-08072

Item **STRIP FLOORING**

Item

Teak	Softwood
A	B
\$	\$
625.80	499.90
22.30	22.30
30.50	30.50
180.40	180.40

Per square metre

08073 Flooring of 20 mm thick in any size wood strips matched for colour, tongued, grooved and "V" jointed all round and laid in basket or herringbone pattern with straight borders as ordered, laid on bitumen/rubber latex waterproofing emulsion coated screed or blockboard backing (paint, screed and blockboard backing measured separately), including preparing surface for polishing

08073

08074 Take up and clear away wood strip flooring (blockboard backing measured separately).....

08074

08075 Take up and set aside for re-use wood strip flooring (ditto).....

08075

08076 Lay only wood strip flooring (ditto).....

08076

WOOD BLOCK FLOORING

Thickness (mm)			
20	25	20	25
Teak	Teak	Softwood	Softwood
A	B	C	D
\$	\$	\$	\$
403.80	479.90	343.10	399.90
18.70	20.50	19.10	20.50
24.40	26.40	24.40	26.40
151.90	164.40	151.90	164.40

Per square metre

08077 Flooring of the stated thickness in any size wood blocks matched for colour, tongued and grooved all round and laid in basket or herringbone pattern with straight boards as ordered, fixed with cold bitumen/rubber emulsion adhesive to screeds, including preparing surfaces for polishing

08077

08078 Take up and clear away wood block flooring.....

08078

08079 Take up and set aside for re-use wood block flooring.....

08079

08080 Lay only wood block flooring.....

08080

PARQUET FLOORING

Hard-wood	Teak	Soft-wood
A	B	C
\$	\$	\$
245.60	297.00	276.80
12.20	15.50	15.50
21.60	23.80	23.80
137.70	148.60	148.60

Per square metre

08081 Parquet flooring of 8 mm thick in any size wood blocks matched for colour, tongued and groove and laid in pattern as ordered, fixed with cold bitumen/rubber emulsion adhesive to screeds, including preparing surfaces for polishing

08081

08082 Take up and clear away wood block flooring.....

08082

08083 Take up and set aside for re-use parquet flooring.....

08083

08084 Lay only parquet flooring.....

08084

Per square metre

A
\$
16.60

08085 Plane as necessary, sand down, clean off existing wood block or parquet flooring of any type and prepare surface for polishing.....

08085

Item	LAMINATED FLOORING		Item	
	Supply and lay European origin laminated flooring of various series tongued and grooved and laid in basket or herringbone pattern as ordered, including coating screeded sub-floor with approved bitumen/rubber latex waterproofing emulsion as ordered, fibreglass or polyethylene backing as required all in accordance with the manufacturer's recommendations : -	Boarding thickness (mm)		
		n.e. 10	exc. 10	
		A	B	
		\$	\$	
08086	Laminated flooring.....	500.80	627.60	08086
08087	Take up and clear away laminated flooring complete with fittings.....	21.30	21.30	08087
08088	Take up and set aside for re-use ditto.....	30.50	30.50	08088
08089	Fix only ditto.....	155.80	155.80	08089
	<i>Per linear metre</i>			
08090	Aluminium T-strip cover for expansion joint.....		A	08090
			\$	
08091	Aluminium end edging strip.....		158.50	08091
08092	Laminated skirting 82 mm high.....		104.60	08092
08093	Laminated T-strip cover for expansion joint.....		137.60	08093
08094	Laminated end edging strip.....		209.20	08094
			82.40	

CARPENTRY AND JOINERY

08086-08094

Item **SASHES**

Item

Sashes for solid or cased frames, fanlights, lanterns and skylights, etc., with styles, head and bottom rails of required widths, divided into squares of any size with glazing bars including all rebates, splays, throats, mouldings and similar labours (solid or cased frames, glass, glazing beads and ironmongery all measured separately) :-

Per square metre

08095 Fixed sash including screwing to frame and bedding in white lead if required.....

08096 Opening sash including hanging or hanging folding on hinges, pivots or to slides vertically or horizontally, providing and fixing parting beads and stops required.....

JALOUSIES

Per square metre

08097 Jalousie with fixed wood louvre blades at angle of 45 degrees rounded or splayed on edges and spaced at about 40 mm centres, framed up in panels with styles, head and bottom rails of required widths including all rebates, splays, throats, mouldings and similar labours, louvre blades notched and housed into styles and secured with small fillet around back edges of styles, and hanging or hanging folding (ironmongery measured separately).....

08098 Ditto but with wood louvre blades movable and spaced at about 65 mm centres including ends pivoted into styles and movable operating bar secured to louvres with pairs of eyes.....

Wrot hardwood					Wrot teak					Wrot softwood				
Thickness (mm)					Thickness (mm)					Thickness (mm)				
40	45	50	55	65	40	45	50	55	65	40	45	50	55	65
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
477.10	496.80	516.00	536.30	574.70	667.40	702.00	737.10	773.60	843.20	608.00	635.30	662.80	691.90	746.70
497.60	516.70	536.70	555.90	595.80	691.80	726.30	762.60	796.80	868.70	632.30	659.70	688.30	715.10	772.20
660.00	674.50	690.70	706.10	737.80	922.70	948.20	976.40	1,003.90	1,059.60	840.60	860.80	883.30	905.20	949.70
798.70	814.30	829.50	845.40	876.60	1,067.00	1,094.70	1,121.90	1,134.80	1,205.00	994.90	1,017.30	1,038.80	1,050.20	1,105.20

Add to either of Items 08095 to 08098 inclusive for semi-circular, segmental or elliptical head to rectangular sash or jalousie (circular sash measured square, semi-circular, segmental or elliptical portion only measured rectangular net width by net height from springing).....

35%

Item LEDGED, OR LEDGED AND BRACED DOORS

Item

Ledged, or ledged and braced doors covered with boarding including ledges and braces of required widths and 5 mm thicker than boards, and hanging (ironmongery measured separately) :-

Wrot hardwood																
Square edge boarding				Tongued and grooved boarding				Tongued, grooved and "V" or bead jointed one side boarding				Tongued, grooved and "V" or bead jointed both sides boarding				
Thickness of boarding (mm)				Thickness of boarding (mm)				Thickness of boarding (mm)				Thickness of boarding (mm)				
20	25	30	40	20	25	30	40	20	25	30	40	20	25	30	40	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Per square metre																
08099	Ledged door with open spaced boarding (maximum 30 mm between boards).....															08099
	297.80	335.50	372.00	446.30	-	-	-	-	-	-	-	-	-	-	-	-
08100	Ditto but with close jointed boarding.....															08100
	325.10	369.00	405.60	486.00	352.40	395.10	437.80	524.50	362.30	405.10	447.80	534.50	378.50	421.20	463.90	550.60
08101	Ledged and braced door with open spaced boarding (maximum 30 mm between boards).....															08101
	333.80	376.50	418.00	498.40	-	-	-	-	-	-	-	-	-	-	-	-
08102	Ditto but with close jointed boarding.....															08102
	359.90	408.80	452.80	538.20	386.00	434.90	483.80	575.50	400.90	449.80	497.50	590.40	412.00	461.00	509.90	602.80
08103	Add to either of Items 08099 to 08102 inclusive if door hung folding or in two heights including rebates and beads.....															08103
	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80

FRAMED, LEDGED AND BRACED DOORS

Framed ledged and braced doors covered with boarding including styles, head, middle and bottom rails, and braces of required widths, and hanging (ironmongery measured separately) :-

Wrot hardwood				Wrot teak				Wrot softwood				
Overall door thickness (mm)				Overall door thickness (mm)				Overall door thickness (mm)				
45	50	55	65	40	50	55	65	40	50	55	65	
A	B	C	D	E	F	G	H	I	J	K	L	
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Per square metre												
08104	Door with 20 mm tongued and grooved boarding.....											08104
	470.40	487.00	498.70	525.20	909.60	944.10	970.70	1,034.50	735.70	767.70	790.50	833.30
08105	Ditto but boarding "V" or bead jointed on one side.....											08105
	498.90	511.80	529.70	552.50	939.40	975.10	1,004.20	1,064.30	770.50	796.30	819.10	866.80
08106	Ditto but boarding "V" or bead jointed on both sides.....											08106
	523.80	536.70	554.50	577.40	969.20	1,005.00	1,034.00	1,094.10	800.30	826.10	848.90	896.60
08107	Add to either of Items 08104 to 08106 inclusive if door hung folding or in two heights including rebates and beads.....											08107
	11.80	11.80	11.80	11.80	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.10
Each												
08108	Extra over either of Items 08104 to 08106 inclusive if door prepared with wicket gate including fitting and hanging the same.....											08108
	160.80	161.90	163.00	164.10	192.90	194.00	195.10	196.30	192.90	194.00	195.10	196.30

Add to either of Items 08104 to 08106 inclusive for semi-circular, segmental or elliptical head to framed, ledged and braced door (semi-circular, segmental or elliptical portion only measured rectangular net width by net height from springing).....

35%

Item **SOLID DOORS**

Item

08109-08117

CARPENTRY AND JOINERY

Wrot hardwood				
Overall door thickness (mm)				
40	45	50	55	65
A	B	C	D	E
\$	\$	\$	\$	\$
508.40	544.90	571.50	608.00	674.30
520.80	557.30	583.90	620.40	686.70
533.20	569.70	596.30	632.80	699.10

Per square metre

08109	Solid door of tongued and grooved boarding clamped with and including three 16 mm diameter horizontal mild steel rods each 15 mm shorter than door width and threaded and fitted with nuts and washers both ends, drilling boarding for rods, countersinking for nuts, pelleting and hanging (ironmongery measured separately).....	508.40	544.90	571.50	608.00	674.30	08109
08110	Ditto but tongued and grooved boarding "V" or bead jointed on one side.....	520.80	557.30	583.90	620.40	686.70	08110
08111	Ditto but tongued and grooved boarding "V" or bead jointed on both sides.....	533.20	569.70	596.30	632.80	699.10	08111

FRAMED AND PANELLED DOORS

Framed and panelled doors with styles, muntin, head, intermediate and bottom rails of required widths and 20 mm thick panels, and hanging (ironmongery measured separately) : -

	Wrot hardwood					Wrot teak					Wrot softwood						
	Overall door thickness (mm)					Overall door thickness (mm)					Overall door thickness (mm)						
	40	45	50	55	65	40	45	50	55	65	40	45	50	55	65		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
08112	Door square and flat both sides.....	467.40	486.50	505.60	523.50	562.50	871.10	913.80	959.00	1,004.20	1,092.90	717.10	751.10	785.10	820.40	885.40	08112
08113	Add if framing stop chamfered or rounded (per side).....	23.10	23.10	23.10	23.10	23.10	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	08113
08114	Add if framing moulded on solid (per side).....	30.80	30.80	30.80	30.80	30.80	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	08114
08115	Add if bolecion moulded and planted on around panels (per side).....	92.20	92.20	92.20	92.20	92.20	133.90	133.90	133.90	133.90	133.90	119.30	119.30	119.30	119.30	119.30	08115
08116	Add if panels raised and thickened with sunk and splayed margins (per side).....	79.20	79.20	79.20	79.20	79.20	117.80	117.80	117.80	117.80	117.80	103.50	103.50	103.50	103.50	103.50	08116
08117	Add if door hung folding or in two heights including rebates and beads.....	11.80	11.80	11.80	11.80	11.80	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.10	08117

Add to either of Items 08112 to 08116 inclusive for semi-circular, segmental, or elliptical head to framed and panelled door (semi-circular, segmental or elliptical portion only measured rectangular net width by net height from springing).....

35%

Item **FRAMED, PANELLED AND GLAZED DOORS**

Item

Framed and panelled doors, wholly or partly glazed, with styles (diminished if required), head, intermediate and bottom rails of required widths, 20 mm thick panels where not glazed, and hanging (glass, glazing beads, and ironmongery all measured separately) :-

Wrot hardwood												
One panel door with panel left open for full glazing					Two or three panel door with upper panel left open for full glazing							
Overall door thickness (mm)					Overall door thickness (mm)							
40	45	50	55	65	40	45	50	55	65			
A	B	C	D	E	F	G	H	I	J			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
08118	Door square and flat both sides.....	226.40	240.60	254.70	268.90	292.90	309.60	322.60	342.90	355.80	387.30	08118
08119	Add if framing rebated for glass.....	12.30	12.30	12.30	12.30	12.30	7.70	7.70	7.70	7.70	7.70	08119
08120	Add if framing stop chamfered or rounded (per side).....	12.30	12.30	12.30	12.30	12.30	7.70	7.70	7.70	7.70	7.70	08120
08121	Add if framing moulded on solid (per side).....	20.10	20.10	20.10	20.10	20.10	30.80	30.80	30.80	30.80	30.80	08121
08122	Add if open panel for glazing divided into squares (any number) with and including plain, rebated or moulded glazing bars.....	56.40	57.50	58.10	59.20	61.00	98.60	100.70	102.20	104.60	107.80	08122
08123	Add if bolection moulded and planted on around wood panels (per side).....	-	-	-	-	-	45.40	45.40	45.40	45.40	45.40	08123
08124	Add if wood panels raised and thickened with sunk and splayed margins.....	-	-	-	-	-	44.20	44.20	44.20	44.20	44.20	08124
08125	Add if door hung folding or in two heights including rebates and beads.....	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	08125

Per square metre

Wrot teak												
One panel door with panel left open for full glazing					Two or three panel door with upper panel left open for full glazing							
Overall door thickness (mm)					Overall door thickness (mm)							
40	45	50	55	65	40	45	50	55	65			
A	B	C	D	E	F	G	H	I	J			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
08126	Door square and flat both sides.....	399.10	429.40	459.70	490.00	550.10	659.90	689.00	735.40	765.70	839.50	08126
08127	Add if framing rebated for glass.....	14.70	14.70	14.70	14.70	14.70	9.20	9.20	9.20	9.20	9.20	08127
08128	Add if framing stop chamfered or rounded (per side).....	14.70	14.70	14.70	14.70	14.70	9.20	9.20	9.20	9.20	9.20	08128
08129	Add if framing moulded on solid (per side).....	24.10	24.10	24.10	24.10	24.10	37.00	37.00	37.00	37.00	37.00	08129
08130	Add if open panel for glazing divided into squares (any number) with and including plain, rebated or moulded glazing bars.....	85.90	89.50	92.40	96.20	102.50	116.50	118.80	120.00	122.80	126.70	08130
08131	Add if bolection moulded and planted on around wood panels (per side).....	-	-	-	-	-	62.80	62.80	62.80	62.80	62.80	08131
08132	Add if wood panels raised and thickened with sunk and splayed margins.....	-	-	-	-	-	64.50	64.50	64.50	64.50	64.50	08132
08133	Add if door hung folding or in two heights including rebates and beads.....	14.10	14.10	14.10	14.10	14.10	-	-	-	-	-	08133

Per square metre

CARPENTRY AND JOINERY

08118-08133

Item **FRAMED, PANELLED AND GLAZED DOORS (CONT'D)**

Item

08134-08144

CARPENTRY AND JOINERY

Wrot softwood										Item
One panel door with panel left open for full glazing					Two or three panel door with upper panel left open for full glazing					
Overall door thickness (mm)					Overall door thickness (mm)					
40	45	50	55	65	40	45	50	55	65	
A	B	C	D	E	F	G	H	I	J	
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
08134	Door square and flat both sides.....									08134
08135	Add if framing rebated for glass.....									08135
08136	Add if framing stop chamfered or rounded (per side).....									08136
08137	Add if framing moulded on solid (per side).....									08137
08138	Add if open panel for glazing divided into squares (any number) with and including plain, rebated or moulded glazing bars.....									08138
08139	Add if bolection moulded and planted on around wood panels (per side).....									08139
08140	Add if wood panels raised and thickened with sunk and splayed margins.....									08140
08141	Add if door hung folding or in two heights including rebates and beads.....									08141

Add to either of Items 08118 to 08124 inclusive, Items 08126 to 08132 inclusive and Items 08134 to 08140 inclusive for semi-circular, segmental or elliptical head to framed, panelled and glazed door (semi-circular, segmental, or elliptical portion only measured rectangular net width by net height from springing).....

35%

FLUSH DOORS

Flush doors lipped all round with 15 mm tongued fillet and hanging (ironmongery measured separately) : -

Door covered both sides with 3.2 mm standard hardwood					Item
Overall door thickness (mm)					
25	30	40	45	50	
A	B	C	D	E	
\$	\$	\$	\$	\$	
08142	Skeleton core flush door with 75 or 100 mm hardwood styles, top and bottom rails, solid blocking for lock fittings and egg-crate core of 25 mm hardwood filling pieces at 150 mm centres both ways.....				08142
08143	Solid core flush door with 75 or 100 mm hardwood styles, top and bottom rails, solid blocking for lock fittings and solid core of 20 mm wide vertical or horizontal filling pieces bonded together under pressure and machine thicknessed.....				08143
08144	Add to either of Items 08142 to 08143 inclusive if door hung folding or in two heights including rebates, beads and additional thickness of edge fillet required.....				08144

Per square metre

Item	FLUSH DOORS (CONT'D)					Item	
	Flush doors lipped all round with 15 mm tongued fillet and hanging (ironmongery measured separately) : - (cont'd)						
	Door covered both sides with 3.2 mm standard hardwood						
	Overall door thickness (mm)						
	25	30	40	45	50		
	A	B	C	D	E		
	\$	\$	\$	\$	\$		
08145	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm luan faced internal quality plywood.....	9.40	9.40	9.40	9.40	9.40	08145
08146	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm teak faced internal quality plywood.....	30.90	30.90	30.90	30.90	30.90	08146
08147	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm beech wood faced internal quality plywood.....	36.60	36.60	36.60	36.60	36.60	08147
08148	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm maple faced internal quality plywood.....	46.50	46.50	46.50	46.50	46.50	08148
08149	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm oak wood faced internal quality plywood.....	42.50	42.50	42.50	42.50	42.50	08149
08150	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm zen wood faced internal quality plywood.....	34.60	34.60	34.60	34.60	34.60	08150
08151	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm aneigre wood faced internal quality plywood.....	60.60	60.60	60.60	60.60	60.60	08151
08152	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm sycamore wood faced internal quality plywood.....	80.70	80.70	80.70	80.70	80.70	08152
08153	Extra over items 08142 and 08143 inclusive for cover one side with 4 mm bird eye maple wood faced internal quality plywood..... (Note : - The above Item 08153 will only be paid for if ordered in writing by the Maintenance Surveyor)	257.20	257.20	257.20	257.20	257.20	08153
08154	Extra over items 08142 and 08143 inclusive for cover one side with 0.7 mm laminated plastic sheet.....	74.00	74.00	74.00	74.00	74.00	08154
08155	Extra over items 08142 and 08143 inclusive for cover one side with 1.0 mm laminated plastic sheet.....	84.30	84.30	84.30	84.30	84.30	08155

CARPENTRY AND JOINERY

08145-08155

Item	FLUSH DOORS (CONT'D)	Overall door thickness (mm)					Item
	<i>Each</i>	25	30	40	45	50	
		A	B	C	D	E	
		\$	\$	\$	\$	\$	
08156	Form observation or vent panel opening n.e. 0.20 m ² (Net opening size) through skeleton core, hollow core or solid core flush door, with and including 25 mm teak fillet all round, twice rebated for plywood or hardboard door covering and rebated for glass, etc., if required (door area not deducted - glass, beads, louvre blades, etc., all measured separately).....	29.80	31.90	35.10	37.20	39.20	08156
08157	Ditto but opening 0.20 - 0.40 m ²	43.80	46.70	52.70	55.60	58.70	08157
FIRE RESISTING DOORS							
Supply and fix approved proprietary fire resisting timber doors tested in accordance with BS 476 : Pt. 20-23 and Health and Safety at Work etc. Act 1974 including any finish : -		Fire rated period					
	<i>Per square metre</i> (door size measured net)	½ hour	1 hour	1½ hours	2 hours		
		A	B	C	D		
		\$	\$	\$	\$		
08158	Single leaf fire resisting door without door frames.....	1,240.10	1,907.00	2,573.90	3,240.90		08158
08159	Ditto, with and including door frames.....	1,467.30	2,134.20	2,801.10	3,468.10		08159
08160	Double leaf fire resisting door without door frames.....	1,135.90	1,802.80	2,469.80	3,136.70		08160
08161	Ditto, with and including door frames.....	1,467.30	2,134.20	2,801.10	3,468.10		08161
	<i>Per linear metre</i>						
08162	Proprietary fire and smoke seals, tested in accordance with BS 476 : Pt. 20/22 and Pt. 31 Section 31.1, including any finish.....	125.80	125.80	125.80	125.80		08162
	<i>Each</i>						
08163	Extra over either of Items 08158 to 08161 inclusive for forming observation panel n.e. 0.10 m ²	76.00	106.30	139.20	238.90		08163
08164	Ditto but 0.10 - 0.20 m ²	63.30	88.60	116.00	199.10		08164
08165	Ditto but 0.20 - 0.40 m ²	50.60	70.90	92.80	159.30		08165
	<i>Each or per leaf</i>						
08166	Take down and clear away fire resisting door without door frames.....	16.90	16.90	16.90	16.90		08166
08167	Take down and clear away fire resisting door with and including door frames.....	25.80	25.80	25.80	25.80		08167
08168	Take down and set aside for re-use fire resisting door without out door frames.....	39.70	39.70	39.70	39.70		08168
08169	Take down and set aside for re-use fire resisting door with and including door frames.....	69.10	69.10	69.10	69.10		08169
08170	Fix only fire resisting door without door frames.....	413.60	413.60	413.60	413.60		08170
08171	Fix only fire resisting door with and including door frames.....	893.30	893.30	893.30	893.30		08171
(Note : - The above Items 08158 to 08171 inclusive will only be paid for if ordered in writing by the Maintenance Surveyor)							
ACOUSTIC DOORS							
Acoustic doors including any finish : -		Door					
	<i>Per square metre</i> (door size measured net)	with frames	without frames				
		A	B				
		\$	\$				
08172	Single leaf acoustic door.....	6,055.90		5,538.50		08172	
08173	Double leaf acoustic door.....	4,777.70		4,321.30		08173	

Item	ACOUSTIC DOORS (CONT'D)										Item		
	Acoustic doors including any finish : - (cont'd) <i>Per square metre</i> (door size measured net)												
											Door		
											with frames	without frames	
		A	B										
		\$	\$										
08174	Take down and clear away acoustic door.....	25.80	16.90								08174		
08175	Take down and set aside for re-use acoustic door.....	69.10	39.70								08175		
08176	Fix only acoustic door.....	962.40	453.30								08176		
(Note : - The above Items 08172 to 08176 inclusive will only be paid for, if ordered in writing by the Maintenance Surveyor.)													
REPAIRS, ETC., TO SASHES, JALOUSIES AND DOORS													
Execute the following to hardwood or teak sashes, jalousies, drawers and doors of any size and thickness, single or folding (any new ironmongery measured separately) : -													
		Fixed sash	Opening sash	Jalousie with fixed louvres	Jalousie with movable louvres	Ledged, or ledged and braced door	Framed, ledged and braced door	Solid door	Framed and panelled, or framed, panelled and glazed door	Flush door	Cup-board door		
		A	B	C	D	E	F	G	H	I	J		
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
08177	Take down (complete with ironmongery, sash cords, etc., required) and clear away.....	20.70	20.70	23.80	23.80	28.50	31.20	31.20	31.20	31.20	19.10	08177	
08178	Take down and set aside for re-use.....	22.50	22.50	27.60	27.60	34.90	39.70	39.70	39.70	39.70	25.90	08178	
08179	Fix only including screwing to frame and bedding in white lead if required.....	22.90	-	-	-	-	-	-	-	-	-	08179	
08180	Hang only including fixing any sash cord, etc.....	-	27.60	34.60	34.60	36.30	55.30	55.30	55.30	55.30	34.60	08180	
08181	Ease and adjust in position including re-securing, tightening existing or providing new screws to hinges, pivots, sliding gear, etc., cleaning and oiling the same, and planning, sanding down, painting one coat of hard gloss paint and polishing edges as required.....	-	12.40	15.50	15.50	16.90	19.30	19.30	19.30	19.30	13.80	08181	
08182	Ditto but including taking down and afterwards re-fixing.....	-	62.50	77.70	77.70	88.10	114.40	114.40	114.40	114.40	74.30	08182	
08183	Repair angle or junction of framing with and including 150 x 150 x 25 x 5 mm galvanized steel flat tee or angle, let in flush and screwed (per angle or tee).....	-	27.80	27.80	27.80	27.80	27.80	27.80	34.20	-	-	08183	
08184	Clamp up and repair or re-make joint with glue or white lead including re-wedging or re-pinning with new wedges or pins if required (taking down and re-hanging measured separately).....	41.60	41.60	83.20	83.20	77.60	77.60	22.20	77.60	-	-	08184	
08185	Ditto but including taking down, removing or cutting out defective parts and preparing to receive new parts (new parts measured separately as boarding, fillets, plywood, etc., supplied and fixed under the appropriate schedule items).....	137.30	137.30	230.10	230.10	226.00	226.00	137.30	226.00	-	-	08185	

Item	REPAIRS, ETC., TO SASHES, JALOUSIES AND DOORS (CONT'D)											Item		
	<i>Per linear metre</i>											A		
												\$		
08186	Provide and fix new 16, 22 or 29 mm circumference white Manila or other approved sash cord.....											7.70	08186	
	<i>Each</i>													
08187	Small hardwood pieces let in or plug holes for making good where door fitting has been removed from sash or door frames, doors, sashes, etc. including painting patch to match existing..... (Note : - This item will not be paid for, if removal of door fitting and making good have been measured elsewhere.)											12.30	08187	
WINDOW, DOOR, PARTITION AND PANEL FRAMES														
Solid window, door, or exposed partition or panel frames, transoms, mullions, styles, rails or cills, etc., framed up and fixed complete including rebates, grooves, throats, rounded angles, chamfers, splays, mouldings on solid and similar labours and all framed joints : -														
<i>Per linear metre</i>						<i>Per linear metre</i>								
Wrot hardwood						Wrot teak								
Thickness (mm)						Thickness (mm)								
30	50	65	75	90	100	30	50	65	75	90	100			
A	B	C	D	E	F	G	H	I	J	K	L			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
08188	Width 40 mm.....	-	-	-	23.90	26.80	28.80	-	-	-	40.80	46.60	50.50	08188
08189	Width 45 mm.....	-	-	23.20	25.40	29.00	31.00	-	-	39.70	43.80	51.20	55.00	08189
08190	Width 50 mm.....	-	20.90	24.70	27.20	30.80	33.60	-	35.00	42.50	47.40	54.80	60.50	08190
08191	Width 65 mm.....	18.20	24.70	29.30	32.50	37.10	40.30	29.50	42.50	51.80	58.30	67.70	74.20	08191
08192	Width 75 mm.....	20.10	27.20	32.50	36.00	41.30	44.90	33.30	47.40	58.30	65.60	76.50	83.70	08192
08193	Width 100 mm.....	24.40	33.60	40.30	44.90	51.60	55.80	41.40	60.50	74.20	83.70	98.00	106.80	08193
08194	Width 125 mm.....	28.30	39.90	48.20	53.50	61.80	67.20	48.80	72.90	90.10	101.40	118.90	130.30	08194
08195	Width 150 mm.....	32.60	46.10	56.00	62.60	72.40	79.00	56.90	85.40	105.90	119.80	140.80	154.70	08195
08196	Width 200 mm.....	41.10	58.70	72.10	80.60	93.20	101.80	73.30	110.30	138.50	156.70	183.60	201.80	08196
<i>Per linear metre</i>						<i>Per linear metre</i>								
Wrot softwood						Wrot softwood								
Thickness (mm)						Thickness (mm)								
30	50	65	75	90	100	30	50	65	75	90	100			
A	B	C	D	E	F	A	B	C	D	E	F			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
08197	Width 40 mm.....	-	-	-	33.10	37.50	40.50	-	-	-	33.10	37.50	40.50	08197
08198	Width 45 mm.....	-	-	32.30	35.40	40.90	43.80	-	-	32.30	35.40	40.90	43.80	08198
08199	Width 50 mm.....	-	28.80	34.40	38.10	43.60	47.80	-	28.80	34.40	38.10	43.60	47.80	08199
08200	Width 65 mm.....	24.70	34.40	41.30	46.20	53.10	58.00	24.70	34.40	41.30	46.20	53.10	58.00	08200
08201	Width 75 mm.....	27.50	38.10	46.20	51.50	59.60	64.90	27.50	38.10	46.20	51.50	59.60	64.90	08201
08202	Width 100 mm.....	33.80	47.80	58.00	64.90	75.30	81.80	33.80	47.80	58.00	64.90	75.30	81.80	08202
08203	Width 125 mm.....	39.40	57.20	69.80	78.00	90.80	99.00	39.40	57.20	69.80	78.00	90.80	99.00	08203
08204	Width 150 mm.....	45.70	66.50	81.60	91.60	106.90	116.90	45.70	66.50	81.60	91.60	106.90	116.90	08204
08205	Width 200 mm.....	58.20	85.20	105.80	119.00	138.50	151.60	58.20	85.20	105.80	119.00	138.50	151.60	08205

Item	WINDOW, DOOR, PARTITION AND PANEL FRAMES (CONT'D)	Item																								
	Solid window, door, or exposed partition or panel frames, transoms, mullions, styles, rails or cills, etc., framed up and fixed complete including rebates, grooves, throats, rounded angles, chamfers, splays, mouldings on solid and similar labours and all framed joints : -																									
	Add to either of Items 08188 to 08205 inclusive for frames, etc., bent to curve to radius n.e. 15 m during fixing by means of saw cuts, steam bending, etc.....	20%																								
	Ditto for frames, etc., cut circular from solid timber including dowelling and keying sections together.....	35%																								
		<table border="1"> <thead> <tr> <th>Wrot hard-wood</th> <th>Wrot teak</th> <th>Wrot soft-wood</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </tbody> </table>	Wrot hard-wood	Wrot teak	Wrot soft-wood	A	B	C	\$	\$	\$															
Wrot hard-wood	Wrot teak	Wrot soft-wood																								
A	B	C																								
\$	\$	\$																								
	Per linear metre																									
08206	Take down and clear away solid window, door, or exposed partition or panel frames, transoms, mullions, styles, rails or cills, etc., of any size.....	6.90 8.10 8.10 08206																								
08207	Take down and set aside for re-use ditto.....	9.20 11.10 11.10 08207																								
08208	Fix only ditto.....	13.60 16.20 16.20 08208																								
		<table border="1"> <thead> <tr> <th>A</th> </tr> </thead> <tbody> <tr> <td>\$</td> </tr> </tbody> </table>	A	\$																						
A																										
\$																										
08209	Repair angle or junction of frames, etc., with and including 150 x 150 x 25 x 5 mm galvanized steel flat tee or angle, let in flush and screwed (per angle or tee).....	27.80 08209																								
08210	Clamp up and repair or re-make joint with glue or white lead including re-wedging or re-pinning with new wedges or pins if required (taking down and re-fixing measured separately).....	28.40 08210																								
	PLASTIC FOLDING DOOR																									
	Plastic folding doors (except Japan origin) in any colour and series including door frames and all necessary accessories, screwed to wood or plugged and screwed to concrete, brickwork and the like in accordance with the manufacturer's recommendations : -																									
	Per square metre	<table border="1"> <thead> <tr> <th>A</th> </tr> </thead> <tbody> <tr> <td>\$</td> </tr> </tbody> </table>	A	\$																						
A																										
\$																										
08211	Plastic folding door.....	216.90 08211																								
	Add to Item 08211 for plastic folding door of Japan origin.....	30%																								
	FOLDING OR OPENABLE PARTITIONS																									
	Construct folding partitions as G.S. Items 22.81, 22.82(a) and 22.83 to 22.86 : -																									
	Per square metre	<table border="1"> <thead> <tr> <th colspan="4">Surface finish</th> </tr> <tr> <th>Paint</th> <th>Wood veneers</th> <th>Plastic laminate</th> <th>Vinyl cloth</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> <tbody> <tr> <td>649.50</td> <td>791.40</td> <td>756.50</td> <td>694.50</td> </tr> <tr> <td>25.30</td> <td>25.30</td> <td>25.30</td> <td>25.30</td> </tr> </tbody> </table>	Surface finish				Paint	Wood veneers	Plastic laminate	Vinyl cloth	A	B	C	D	\$	\$	\$	\$	649.50	791.40	756.50	694.50	25.30	25.30	25.30	25.30
Surface finish																										
Paint	Wood veneers	Plastic laminate	Vinyl cloth																							
A	B	C	D																							
\$	\$	\$	\$																							
649.50	791.40	756.50	694.50																							
25.30	25.30	25.30	25.30																							
08212	Folding partitions, 45 mm thick.....	649.50 791.40 756.50 694.50 08212																								
08213	Extra over for infilling with mineral wool.....	25.30 25.30 25.30 25.30 08213																								
	Each																									
08214	Extra over for single pass door.....	455.70 711.10 648.10 536.60 08214																								
08215	Extra over for double pass door.....	911.30 1,422.20 1,296.30 1,073.20 08215																								

Item	FOLDING OR OPENABLE PARTITIONS (CONT'D)										Item		
	SCREEN FABRIC												
	Screen fabric of 3 mm thick in any colours covered to panel or backing (panel or backing measured separately) : -												
											Supply and fix	Take down and clear away	
											A \$	B \$	
08216	Screen fabric.....										185.20	31.00	08216
	SYNTHETIC LEATHER												
	Synthetic leather of 3 mm thick in any colours with and including 5 mm thick foam covered to panel or backing (panel or backing measured separately) : -												
	<i>Per square metre</i>												
08217	Synthetic leather covering.....										442.40	25.00	08217
	STAIRCASES												
		Wrot hardwood					Wrot teak						
		Thickness (mm)					Thickness (mm)						
		20	25	30	40	50	20	25	30	40	50		
		A	B	C	D	E	F	G	H	I	J		
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
08218	Tread (including winder tread) with rounded nosing, grooved for risers and wedged, glued, blocked and fixed complete (exposed top surface area measured).....	-	-	220.00	287.20	336.70	-	-	386.40	509.20	610.40	08218	
08219	Riser (including winder riser) with rebated or tongued edges, and wedged, glued and fixed complete (exposed face area measured).....	159.20	186.20	210.00	-	-	272.10	327.30	374.80	-	-	08219	
	<i>Each</i>												
08220	Extra over tread for returned mitred nosed end.....	-	-	37.70	37.70	37.70	-	-	45.20	45.20	45.20	08220	
08221	Extra over riser for mitred end.....	13.30	13.30	13.30	-	-	16.00	16.00	16.00	-	-	08221	
08222	Extra over tread for projecting semi-circular end to lower step (tread measured full length as square).....	-	-	49.90	49.90	49.90	-	-	59.90	59.90	59.90	08222	
08223	Extra over riser for ditto (riser measured full length as square).....	49.90	49.90	49.90	-	-	59.90	59.90	59.90	-	-	08223	

Item	STAIRCASES (CONT'D)										Item	
	Wrot hardwood					Wrot teak						
	Thickness (mm)					Thickness (mm)						
	20	25	30	40	50	20	25	30	40	50		
	A	B	C	D	E	F	G	H	I	J		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>											
08224	Wall string 225 mm wide housed for treads and risers including rebates, grooves, moulded edges and similar labours, and fixing.....										08224	
08225	Ditto ramped or circular.....										08225	
08226	Ditto wreathed.....										08226	
08227	Outer string 225 mm wide housed for treads and risers, fixed and framed to newel posts, and notched for landings, including rebates, grooves, moulded, edges and similar labours.....										08227	
08228	Ditto ramped or circular.....										08228	
08229	Ditto wreathed.....										08229	
08230	Cut outer string 225 mm wide with upper edge cut for treads, fixed and framed to newel posts, and notched to landings including rebates, grooves, moulded edges and similar labours.....										08230	
08231	Ditto ramped or circular.....										08231	
08232	Ditto wreathed.....										08232	
08233	Add to either of Items 08224 to 08232 inclusive for each additional 25 mm or part thereof in width.....										08233	
	Overall width or diameter (mm)											
	Wrot hardwood						Wrot teak					
	25	40	45	50	55	65	25	40	45	50	55	65
	A	B	C	D	E	F	G	H	I	J	K	L
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	<i>Per linear metre</i>											
08234	Square or rectangular baluster with rounded or chamfered edges if required, housed or tenoned to string and handrail.....										08234	
08235	Baluster turned or moulded to detail and housed or tenoned to ditto										08235	
											Wrot hard-wood	Wrot teak
											A	B
											\$	\$
08236	Newel post n.e. 0.006 m ² sectional area, square, rounded, chamfered or moulded to detail, and morticed for strings and handrails										59.10	94.50
08237	Add to Item 08236 for each additional 0.001 m ² or part thereof in sectional area.....										10.40	19.10
	<i>Each</i>											
08238	Extra over newel post for cap or pendant, with ball ornament if required, turned and moulded to detail.....										61.00	73.20

Item	STAIRCASES (CONT'D)			Item																																				
		Wrot hard - wood	Wrot teak																																					
		A	B																																					
		\$	\$																																					
08239	Rounded or "mopstick" handrail n.e. 0.004 m ² sectional area, framed and fixed level or raking, housed for balusters or rung for metal core rail, tenoned to newel posts, and jointed with and including double nut handrail screws, including splayed or rounded ends.....	54.90	84.90	08239																																				
08240	Ditto ramped or circular.....	56.60	86.90	08240																																				
08241	Ditto wreathed.....	58.20	88.90	08241																																				
08242	Add to either of Items 08239 to 08241 inclusive for each additional 0.001 m ² or part thereof in sectional area.....	13.60	20.80	08242																																				
08243	Handrail n.e. 0.004 m ² sectional area all as last described but moulded to detail.....	57.90	89.50	08243																																				
08244	Ditto ramped or circular.....	59.70	91.60	08244																																				
08245	Ditto wreathed.....	64.10	102.60	08245																																				
08246	Add to either of Items 08243 to 08245 inclusive for each additional 0.001 m ² or part thereof in sectional area.....	15.60	24.30	08246																																				
08247	75 x 30 or 40 mm Rounded nosing fixed to edge of landing to match stair tread nosing, rebated to match thickness of flooring, and tongued and grooved to the same.....	58.10	81.10	08247																																				
	REPAIRS TO STAIRCASES	Take down and clear away	Take down and set aside for re-use	Fix only																																				
	Execute the following to hardwood or teak staircase parts of any size and thickness : -																																							
		A	B	C																																				
		\$	\$	\$																																				
08248	Treads and risers complete with wedges and blocks if required.....	27.20	39.80	89.40																																				
	<i>Per linear metre</i>																																							
08249	String of any type, straight or to any sweep.....	24.00	37.00	100.80																																				
08250	Handrail ditto.....	12.30	23.70	35.10																																				
	<i>Each</i>																																							
08251	Baluster.....	18.20	18.70	24.00																																				
08252	Newel post complete with cap or pendant if any.....	19.30	19.30	29.60																																				
		<table border="1"> <thead> <tr> <th colspan="3">Wrot hardwood</th> <th colspan="3">Wrot teak</th> </tr> <tr> <th colspan="3">Thickness (mm)</th> <th colspan="3">Thickness (mm)</th> </tr> <tr> <th>30</th> <th>40</th> <th>50</th> <th>30</th> <th>40</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> <tr> <td>66.40</td> <td>79.80</td> <td>89.30</td> <td>88.20</td> <td>111.90</td> <td>127.10</td> </tr> </tbody> </table>		Wrot hardwood			Wrot teak			Thickness (mm)			Thickness (mm)			30	40	50	30	40	50	A	B	C	D	E	F	\$	\$	\$	\$	\$	\$	66.40	79.80	89.30	88.20	111.90	127.10	
Wrot hardwood			Wrot teak																																					
Thickness (mm)			Thickness (mm)																																					
30	40	50	30	40	50																																			
A	B	C	D	E	F																																			
\$	\$	\$	\$	\$	\$																																			
66.40	79.80	89.30	88.20	111.90	127.10																																			
08253	Cut out tread nosing for width of about 125 mm and clear away and provide and fix new nosing glued and dowelled to existing tread.....																																							

Item	SUNDRY ITEMS			Item	
		Wrot hard- wood	Wrot teak		
		A \$	B \$		
08254	<i>Per linear metre</i> Curtain pole 40 mm to 50 mm diameter with ends turned to 65 mm diameter and fixing.....	65.40	97.80	08254	
	<i>Each</i>				
08255	Turned caps and knobs 25 mm diameter and fixing.....	14.50	17.80	08255	
08256	Ditto but 50 mm diameter.....	18.60	23.80	08256	
08257	Ditto but 75 mm diameter.....	26.60	35.80	08257	
08258	Hatpegs of any length or size, square, shaped or turned.....	11.50	14.20	08258	
08259	Square or rectangular blocks with chamfered edges n.e. 40 mm thick for latches, bell pushes, door stops and the like, and fixing	16.60	20.40	08259	
08260	Circular ditto.....	20.10	26.70	08260	
08261	25 mm Thick backboard to cistern n.e. 450 x 300 mm chamfered all round and fixing.....	46.70	-	08261	
	SUNDRY LABOURS	Diameter or average length of side (mm)			
		N.e. 50	50 - 100	Each additional 100	
	<i>Each</i>	A \$	B \$	C \$	
08262	Bore or cut round hole through hardwood or teak n.e. 25 mm thick.....	2.80	8.30	5.50	08262
08263	Add to Item 08262 for each additional 25 mm or part thereof in thickness.....	2.10	6.30	4.20	08263
08264	Cut square or rectangular hole through hardwood or teak n.e. 25 mm thick.....	5.50	11.10	5.50	08264
08265	Add to Item 08264 for each additional 25 mm or part thereof in thickness.....	4.20	8.30	4.20	08265
	<i>Each</i>			A \$	
08266	Cut oval shaped hole with rounded edges through timber or plywood for latrine seat.....			27.70	08266
08267	Cut dishes housing in timber for rifle butt and the like.....			13.90	08267
08268	Cut rounded notch in timber for rifle, revolver barrel and the like.....			5.50	08268
08269	Cut pointed or rounded head to fencing post.....			5.50	08269

Item	BUILDING BOARDS AND SUNDRY ITEMS												Item	
	PLYWOOD	Internal quality						External quality						
		Thickness (mm)						Thickness (mm)						
		4	6	9	12	15	18	4	6	9	12	15	18	
		A	B	C	D	E	F	G	H	I	J	K	L	
	<i>Per square metre</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
08270	Grade 2 plywood, luan faced, finished for painting or polishing if required, and fixed with nails, panel pins, screws or adhesive as ordered, in wall or ceiling lining, fittings, doors, or any other position.....	52.60	60.00	71.70	77.50	92.40	97.10	57.60	66.40	80.40	87.40	105.40	111.00	08270
08271	Ditto but teak faced one side.....	98.60	106.00	117.60	123.40	138.40	143.10	103.50	112.40	126.40	133.30	151.30	156.90	08271
08272	Ditto but teak faced both sides.....	-	145.10	152.50	164.20	170.00	184.90	-	158.30	172.40	179.30	197.30	202.90	08272
08273	Ditto but beech faced one side.....	90.00	97.40	109.10	114.90	129.80	134.50	132.40	103.80	117.90	124.80	142.80	148.40	08273
08274	Ditto but beech faced both sides.....	-	134.80	146.50	152.30	167.20	171.90	-	141.20	155.30	162.20	180.20	185.80	08274
08275	Ditto but maple faced one side.....	90.50	97.90	109.60	115.40	130.30	135.00	95.40	104.30	118.30	125.30	143.30	148.80	08275
08276	Ditto but maple faced both sides.....	-	135.80	147.40	153.20	168.20	172.90	-	142.20	156.20	163.10	181.20	186.70	08276
08277	Ditto but oak faced one side.....	103.90	111.30	122.90	128.70	143.70	148.30	108.80	117.60	131.70	138.60	156.60	162.20	08277
08278	Ditto but oak faced both sides.....	-	162.50	174.10	179.90	194.90	199.60	-	168.90	182.90	189.80	207.80	213.40	08278
08279	Ditto but zen wood faced one side.....	79.30	86.70	98.40	104.20	119.10	123.80	84.30	93.10	107.20	114.10	132.10	137.70	08279
08280	Ditto but zen wood faced both sides.....	-	113.50	125.10	130.90	145.80	150.50	-	119.80	133.90	140.80	158.80	164.40	08280
08281	Grade 2 plywood, luan faced one side and aneiger wood faced other side, finished for painting or polishing if required, and fixed with nails, panel pins, screws or adhesive as ordered, in wall or ceiling lining, fittings, doors, or any other position.....	117.90	125.30	136.90	142.70	157.70	162.40	122.80	131.60	145.70	152.60	170.60	176.20	08281
08282	Ditto but aneigre wood faced both sides.....	-	190.50	202.20	208.00	222.90	227.60	-	196.90	210.90	217.80	235.90	241.50	08282
08283	Ditto but sycamore wood faced one side.....	143.50	150.90	162.50	168.30	183.20	187.90	148.40	157.20	171.30	178.20	196.20	201.80	08283
08284	Ditto but sycamore wood faced both sides.....	-	241.70	253.30	259.10	274.10	278.80	-	248.10	262.10	269.00	287.10	292.60	08284

Item	BUILDING BOARDS AND SUNDRY ITEMS (CONT'D)												Item												
	PLYWOOD (CONT'D)						Internal quality						External quality												
							Thickness (mm)						Thickness (mm)												
	4		6		9		12		15		18		4		6		9		12		15		18		
	A		B		C		D		E		F		G		H		I		J		K		L		
	\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		
08285	<i>Per square metre</i>																								
Ditto but bird eye maple faced one side.....	171.80	179.20	190.90	196.60	211.60	216.30	176.70	185.60	199.60	206.50	224.60	230.10	08285												
08286	<i>Per square metre</i>																								
Ditto but bird eye maple faced both sides.....	-	298.40	310.00	315.80	330.80	335.50	-	304.80	318.80	325.70	343.70	349.30	08286												
													Thickness (mm)												
													9		18										
													A		B										
													\$		\$										
08287	Marine plywood to BS 1008 bonded with W.B.P. adhesive between plys, finished for painting or polishing if required, and fixed with nails, panel pins, screws or adhesive as ordered, in wall or ceiling lining, fittings, doors, or any other position.....																								
													101.20		130.80		08287								
	PLASTERBOARD												Thickness (mm)												
													9.50		12.50										
													A		B										
													\$		\$										
08288	<i>Per square metre</i>																								
Plasterboard of "Gypsum basedboard" or "Gypsum lath", fixed with nails panel pins, screws or adhesive as ordered, in walls or any other vertical position.....													61.10		65.40		08288								
08289	<i>Per square metre</i>																								
Ditto in soffits, or any other sloping or horizontal position.....													66.50		71.10		08289								
	FIBRE INSULATION BOARD												Thickness (mm)												
													9		12		19								
													A		B		C								
													\$		\$		\$								
08290	<i>Per square metre</i>																								
Natural finish fibre insulating board fixed with nails, screws or adhesive as ordered, in wall or ceiling lining, position, including chamfered edges to boards and fixing in symmetrical patterns if required.....													65.70		67.10		84.10		08290						
	BLOCKBOARD												Luan faced both sides												
													Thickness (mm)												
													15		18										
													A		B										
													\$		\$										
08291	<i>Per square metre</i>																								
Blockboard fixed with nails, screws or adhesive as ordered, in bench tops, fittings, cupboard doors or any other position.....													121.20		137.60		08291								
	WOOD CHIPBOARD												Thickness (mm)												
													9		12		18		32						
													A		B		C		D						
													\$		\$		\$		\$						
08292	<i>Per square metre</i>																								
Wood chipboard fixed with nails, screws, or adhesive as ordered, in wall or ceiling lining, fittings, doors, or any other position.....													76.10		80.80		97.30		135.60		08292				
08293	<i>Per square metre</i>																								
Ditto but faced for painting one side.....													-		108.10		124.50		-		08293				
08294	<i>Per square metre</i>																								
Ditto but faced for painting both sides.....													-		135.40		151.70		-		08294				
08295	<i>Per square metre</i>																								
Ditto but faced one side with and including laminated decorative plastic sheeting (Class VG or HG as specified)													-		187.10		203.60		-		08295				

Item	LAMINATED PLASTIC DECORATIVE SHEETING		Item																									
	Asian origin laminated plastic decorative sheeting fixed with adhesive to bench tops, fittings, doors or any other position : -	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">Thickness (mm)</th> </tr> <tr> <th>0.7</th> <th>1.0</th> <th>1.3</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> </table>		Thickness (mm)			0.7	1.0	1.3	\$	\$	\$	A	B	C													
Thickness (mm)																												
0.7	1.0	1.3																										
\$	\$	\$																										
A	B	C																										
	<i>Per square metre</i>																											
08296	Standard laminated plastic decorative sheeting (Class HG or VG as specified).....	65.40 119.40 173.50	08296																									
	<i>Per square metre</i>		A \$																									
08297	1.3 mm Thick laminated plastic decorative sheeting cigarette proof or chemical resistance.....	196.50	08297																									
08298	0.7 mm (overall) Thick laminated plastic decorative sheeting (raw finished woodgrains series).....	279.00	08298																									
08299	Ditto (PU finished woodgrains series).....	349.30	08299																									
08300	0.8 mm Thick laminated decorative sheeting faced with polished finish aluminium sheet fixed with adhesive to bench tops, fittings, doors or any position.....	231.80	08300																									
08301	1.3 mm (overall) Thick laminated plastic in aluminium sheet with engraved pattern, in stainless or copper finish fixed with adhesive to bench tops, fittings, doors or any position.....	391.60	08301																									
08302	Ditto brushed aluminium finish ditto.....	399.30	08302																									
	Add to either Items 08296 to 08302 inclusive for laminated plastic decorative sheeting of American or European origin.....	15%																										
	COMPACT LAMINATED PLASTIC DECORATIVE SHEETING	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="5">Plain colour or Pattern</th> </tr> <tr> <th colspan="5">Thickness (mm)</th> </tr> <tr> <th>3</th> <th>6</th> <th>8</th> <th>9</th> <th>12</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>		Plain colour or Pattern					Thickness (mm)					3	6	8	9	12	A	B	C	D	E	\$	\$	\$	\$	\$
Plain colour or Pattern																												
Thickness (mm)																												
3	6	8	9	12																								
A	B	C	D	E																								
\$	\$	\$	\$	\$																								
	Asian origin compact laminated plastic decorative sheeting fixed in any position : -																											
	<i>Per square metre</i>																											
08303	Compact Grade multi-layered laminated panel.....	431.50 601.60 907.90 1,077.80 1,386.80	08303																									
	Add to Item 08303 for multi-layered laminated panel of American or European origin.....		20%																									
	FLAT FIBROUS REINFORCED CEMENT SHEETING	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Thickness (mm)</th> </tr> <tr> <th>5</th> <th>6</th> </tr> <tr> <th>A</th> <th>B</th> </tr> <tr> <th>\$</th> <th>\$</th> </tr> </thead> </table>		Thickness (mm)		5	6	A	B	\$	\$																	
Thickness (mm)																												
5	6																											
A	B																											
\$	\$																											
	<i>Per square metre</i>																											
08304	Sheeting butt jointed and fixed to vertical timber framing (measured separately) with 30 mm galvanized nails at 300 mm centres around all edges.....	99.10 102.00	08304																									
08305	Ditto but fixed to flat or sloping soffits.....	105.10 108.00	08305																									
08306	Add to either of Items 08304 to 08305 inclusive if fixed with screws in lieu of nails.....	11.60 11.60	08306																									
08307	Add to ditto if fixed to steel framing (measured separately) with screws, or bolts, nuts and washers, including drilling steel and tapping if required.....	5.40 5.70	08307																									
	<i>Per linear metre</i>																											
08308	6 mm Thick fibrous reinforced cement cover strip 75 mm wide fixed at joints.....	9.60 9.80	08308																									

Item	GLAZED FIBROUS REINFORCED CEMENT COLOURED SHEETING					Item						
	<i>Per square metre</i>					A \$						
08309	4 mm Thick approved glazed fibrous reinforced cement coloured sheet fixed with screws or adhesive in wall or ceiling lining, fittings, doors, or any other position.....					103.60	08309					
	WOOD WOOL SLABS											
	<i>Per square metre</i>											
						Thickness (mm)						
						25	40	50	75			
						A	B	C	D			
						\$	\$	\$	\$			
08310	Slabs set on edge or end, and jointed in cement/lime mortar if required in partition including building in panels between timber or other framing if necessary.....					67.30	79.60	86.20	117.90	08310		
	SUNDRY LABOURS											
	Note : - The following Items 08311 to 08312 inclusive will not be paid for, if working on new works item.											
	<i>Each</i>					Girth of hole or opening (mm)						
						N.e. 150	150 - 300	Each addi- tional 100				
						A \$	B \$	C \$				
08311	Bore or cut round hole through any type of boarding or sheeting in any thickness.....					1.10	3.30	2.20	08311			
08312	Cut square or rectangular hole through any type of boarding or sheeting in any thickness.....					2.20	4.43	3.30	08312			
	WRITING BOARD / NOTICE BOARD / CHALKBOARD											
	Writing or notice board in any colour with or without magnetic effect including aluminium frame, bottom rail, all necessary accessories and fixing all in accordance with the manufacturer's recommendations : -					Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only		
	<i>Per square metre</i>					Board size (m ²)						
						n.e. 1.0	1.0 - 2.0	exc. 2.0				
						A \$	B \$	C \$	D \$	E \$	F \$	
08313	"Pilot Wyteboard" writing or notice board.....					859.20	816.90	775.70	15.00	15.50	46.60	08313
08314	"Nippon" writing or notice board.....					399.60	353.50	481.40	15.00	15.50	46.60	08314
	Chalkboard stand on floor or fixed to wall all as recommended by the manufacturer : -					Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only		
	<i>Per square metre</i>					A \$	B \$	C \$	D \$			
08315	"Mitsubishi" 0.5 mm thick enamel green magnetic chalkboard (framework and backing measured separately).....					365.90	16.20	10.10	56.50	08315		
08316	"Omega" 4 m mm thick laminated chalkboard (ditto).....					365.90	9.20	10.10	56.50	08316		
08317	"Unique" revolving surface chalkboard of roller-type including framework and accessories.....					1,290.50	41.40	40.30	83.90	08317		
08318	"Compact" magnetic green/white board with porcelain enamel steel surface material and plywood backing finished with white laminares including framework and accessories.....					751.20	41.40	40.30	83.90	08318		
	<i>Per square metre</i>											
08319	Extra over Item 08318 for music ruling.....										A \$	08319
											367.80	

Item	BAIZE OR NOTICE BOARD FELT			Item		
	<i>Per square metre</i>			A \$		
08320	Good quality red, green, blue or black baize or fine felt, fixed to doors, notice and directory boards and the like with adhesive or brass nails as required.....			269.60 08320		
08321	Ditto but fixed to grooved plastic name plates and notice boards (measured separately) including working into grooves (measured flat overall grooves).....			275.00 08321		
08322	Ditto but fixed to grooved plywood or timber name and directory boards (measured separately) including cutting grooves in plywood or timber and working the baize or felt into the same (measured flat overall grooves).....			278.30 08322		
GLASS FIBRE INSULATION						
Uncompressed thickness (mm)						
12 25 50						
<i>Per square metre</i>						
	A	B	C			
	\$	\$	\$			
08323	-	14.00	20.30	08323		
08324	-	17.50	24.20	08324		
08325	-	16.50	16.50	08325		
08326	24.40	36.70	58.10	08326		
08327	37.40	49.70	71.10	08327		
08328	16.50	16.50	16.50	08328		
FIRE RESISTING INSULATION BOARD						
Fire resisting insulation board fixed to position (horizontally or vertically) in any form :-						
<i>Per square metre</i>						
	45 kg/m ³	60kg/m ³	80kg/m ³	100kg/m ³	125kg/m ³	
	A	B	C	D	E	
	\$	\$	\$	\$	\$	
08329	26.90	31.00	34.60	39.80	45.70	08329
08330	55.70	62.10	67.90	74.70	84.90	08330
08331	94.70	103.40	111.60	121.30	136.20	08331
08332	131.40	143.10	153.70	166.10	185.20	08332
REPAIRS TO BUILDING BOARDS AND SUNDRY ITEMS						
<i>Per square metre</i>						
	Take down and clear away	Take down and set aside for re-use	Fix only			
	A	B	C			
	\$	\$	\$			
08333	13.80	11.60	43.50	08333		
08334	10.30	10.40	41.30	08334		
08335	10.30	10.40	41.30	08335		
08336	8.60	8.30	34.90	08336		
08337	10.30	10.40	41.30	08337		
08338	10.30	12.40	41.30	08338		

Item	REPAIRS TO BUILDING BOARDS AND SUNDRY ITEMS				Item
		Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	
08339	Laminated plastic decorative sheeting ditto.....	8.80	10.40	46.50	08339
08340	Flat fibrous reinforced cement sheeting ditto.....	9.10	10.40	54.40	08340
08341	Glazed fibrous reinforced cement sheets ditto.....	9.10	10.40	50.10	08341
08342	Wood wool slabs of any thickness fixed to any position.....	10.90	12.40	23.20	08342
08343	Baize or fine felt fixed to any boarding in any position.....	5.40	6.20	30.40	08343
08344	Glass fibre insulation of any type and thickness laid on or fixed to any component.....	5.10	2.50	5.40	08344
08345	Notice and directory boards, pin board and the like fixed complete to or hung on wall or column.....	15.00	15.50	46.60	08345
		Take down and clear away	Take down and set aside for re-use	Place in position	
	<i>Per cubic metre</i>	A \$	B \$	C \$	
08346	Cupboard, wardrobe, dresser, storage rack, fixtures, furniture, fittings, electrical appliances and the like fixed to wall or floor.....	104.30	25.90	34.60	08346
	SPORT HALL FLOORING SYSTEMS				
	<i>Per square metre</i>		Supply and fix	Take down and clear away	
	Granwood Flooring System		A \$	B \$	
08347	Granwood floor block size 174 x 57 x 10 mm with Granfix PA polyurethane adhesive onto existing levelled screed (measured separately) in basket straight lay half-bond pattern, including all cutting, grouting, machine sanding and applying three coats of polyurethane paint to surfaces all as recommended by the manufacturer.....		798.70	8.30	08347

Item	SPORT HALL FLOORING SYSTEMS (CONT'D)			Item
		Supply and fix	Take down and clear away	
		A \$	B \$	
	<i>Per square metre</i>			
	Canadian Temsport II Maple Sprung Sports Hall Flooring System			
08348	Temsport II Flooring system of Canadian first grade maple flooring with size 19 x 57 mm, random length on 12 mm exterior grade plywood and fixed on 50 x 75 mm sleepers at 300 mm centres with 55 x 75 x 10 mm thick rubber pad at 300 mm centres laid on 6 mil thick polyurethane sheet on screed (measured separately) and including machine sanding and applying three coats of polyurethane paint and any necessary wood preservative on wood before fixing all as recommended by the manufacturer.....	1,144.20	9.50	08348
	Canadian Temsport III Maple Sprung Sports Hall Flooring System			
08349	Temsport III Flooring system of Canadian first grade maple flooring with size 19 x 57 mm, random length on 2 layers 12 mm exterior grade plywood and fixed on 18 mm thick ISO cushion pad at 300 mm centres laid on 6 mil thick polyurethane sheet on screed (measured separately) and including machine sanding and applying three coats of polyurethane paint and any necessary wood preservative on wood before fixing all as recommended by the manufacturer.....	1,208.50	9.50	08349
	U.S. Actionthrust I Floating Panel Sports Hall Flooring System			
08350	Actionthrust I Flooring system of U.S. first grade maple flooring with size 19 x 57 mm, random length on 2 layers 12 mm exterior grade plywood on 19 mm thick conical pad at 300 mm centres laid on 6 mil thick polyurethane sheet on screed (measured separately) and including machine sanding and applying three coats of polyurethane paint and any necessary wood preservative on wood before fixing all as recommended by the manufacturer.....	1,221.30	9.50	08350
	Junckers Sports Flooring System			
08351	Junckers "Unobat 50" single batten DIN floor consisting of 22 x 129 x 1830/3700 mm (L) solid beech floor boards, "Classic" Grade, factory lacquered, complete with proprietary Unobat 50 battens and 32 kg/m³ sound absorption fibreglass blanket laid between battens, all as recommended by the manufacturer.....	1,346.50	9.50	08351
08352	Junckers "Clip" floor consisting of 22 x 129 x 1830/3700 mm (L) solid beech floor boards of "Classic" Grade, factory lacquered, complete with 10 mm thick resilient foam all as recommended by the manufacturer.....	1,140.20	9.50	08352
	<i>Per linear metre</i>			
08353	100 x 75 x 10 mm thick 'L' shape vent cove rubber wall base skirting.....		265.50	08353
08354	12 x 100 mm maple wood skirting with two coats of polyurethane paint.....		96.50	08354

Item	GLUE - LAMINATED TIMBER			Item	
	Glue - laminated timber shall be manufactured from plantation grown Radiata Pine, CCA (Copper Chromium Arsenate) treated to Hazard Class as described in accordance with NZMP 3640 (1988). Glue laminated timber shall comply with NZS3603, NZS3606 and NZS3616. All glue shall be Resorcinol or Phenol, Resorcinol used to manufacturer's instructions. Moisture content at the time of lamination shall be 12-16%.	CCA-H3	CCA-H4		
		A	B		
		\$	\$		
	<i>Per linear metre</i>				
08355	90 x 65 mm.....	144.20	150.60	08355	
08356	135 x 65 mm.....	207.60	220.30	08356	
08357	180 x 65 mm.....	271.00	283.70	08357	
08358	230 x 65 mm.....	340.70	353.40	08358	
08359	180 x 90 mm.....	365.30	384.30	08359	
08360	230 x 90 mm.....	460.40	498.40	08360	
08361	280 x 90 mm.....	536.50	555.50	08361	
08362	230 x 113 mm.....	605.40	630.80	08362	
08363	280 x 113 mm.....	719.50	757.50	08363	
	Add to either of Items 08355 to 08363 inclusive for members cut curved from solid timber including dowelling and keying sections.....		20%		
	Ditto for members bent to curve to radius n.e. 15.00 m during fixing by means of saw cuts, steaming bending, etc.....		20%		
	Ditto for members cut rounded or mopstick from solid timber including dowelling and keying sections.....		35%		
	<i>Per linear metre</i>		A		
			\$		
08364	Take down and clear away glue laminated timber in any size.....		5.70	08364	
08365	Take down and set aside for re-use ditto.....		6.20	08365	
08366	Fix only ditto.....		42.60	08366	
	LANDSCAPE TIMBER				
		Structural Select Grade CCA - H3	Structural Select Grade CCA - H4	No. 2 Framing Grade CCA - H3	No. 2 Framing Grade CCA - H4
		A	B	C	D
		\$	\$	\$	\$
08367	Wrot landscape timber scantling n.e. 0.02 m ² sectional area.....	20,654.50	26,775.40	17,874.60	18,945.10
08368	Ditto exceeding 0.02 m ² sectional area.....	14,580.50	15,450.80	12,490.10	13,337.30
	Add to either of Items 08367 to 08368 inclusive for members cut curved from solid timber dowelling and keying sections.....				20%
	Ditto for members bent to curve to radius n.e. 15.00 m during fixing by means of saw cuts, steaming bedding, etc.....				20%
	Ditto for members cut rounded or mopstick from solid timber including dowelling and keying sections.....				35%

Item	LANDSCAPE TIMBER (CONT'D)			Item
		N.e. 0.02 m ³	Exc. 0.02 m ³	
	<i>Per Cubic metre</i>	A \$	B \$	
08369	Take down and clear away landscape timber in any size.....	5.70	9.00	08369
08370	Take down and set aside for re-use ditto.....	6.20	10.40	08370
08371	Fix only ditto.....	42.60	72.00	08371
	RECYCLED PLASTIC SCANTLINGS	Square / rectangular sectional area (m ²)		
	<i>Per cubic metre</i>	n.e. 0.02	exc. 0.02	
		A \$	B \$	
08372	Recycled plastic scantlings.....	24,346.60	47,280.20	08372
08373	Take down and clear away recycled plastic scantlings in any size.....	272.30	227.20	08373
08374	Take down and set aside for re-use ditto.....	454.00	378.30	08374
08375	Fix only ditto including making all joints.....	1,365.60	1,138.00	08375

Item	SOLID SURFACING MATERIALS		Item
	"Corian" solid surfacing material of various colour range and finish including all necessary fixing bracket and accessories, pointing, jointing and sealing edges with approved matching sealant : -	Supply and fix	
	<i>Per square metre</i>	A	
		\$	
08376	13 mm thick vanity counter top.....	2,748.70	08376
	<i>Per linear metre</i>		
08377	Extra over Item 08376 for bull nose 40 mm wide.....	31.40	08377
08378	Extra over Item 08376 for backsplash 50 mm high.....	164.40	08378
08379	Ditto 100 mm high.....	294.90	08379
08380	Extra over Item 08376 for front apron 100 mm high.....	164.40	08380
08381	Ditto 200 mm high.....	580.10	08381
08382	Extra over Item 08376 for inlay n.e. 20 mm wide.....	260.90	08382
	<i>Each</i>		
08383	Extra over Item 08376 for integral "Corian" single bowl sink ref. 810A/S.....	937.80	08383
08384	Extra over Item 08376 for integral "Corian" single bowl sink ref. 804.....	2,025.60	08384
08385	Extra over Item 08376 for integral "Corian" single bowl sink ref. 930.....	3,379.50	08385
08386	Extra over Item 08376 for integral "Corian" single bowl sink ref. 939A/S.....	1,929.80	08386
08387	Extra over Item 08376 for integral "Corian" single bowl sink ref. 871A/S.....	2,456.20	08387
	"Surell" solid surfacing material of various colour range and finish including all necessary fixing bracket and accessories, adhesive, pointing, jointing and sealing edges with approved matching sealant : -		
	<i>Per square metre</i>		
08388	13 mm thick vanity counter top.....	2,415.60	08388
	<i>Per linear metre</i>		
08389	Extra over Item 08388 for bull nose 40 mm wide.....	77.10	08389
08390	Extra over Item 08388 for backsplash 50 mm high.....	165.80	08390
08391	Ditto 100 mm high.....	293.70	08391
08392	Extra over Item 08388 for front apron 100 mm high.....	255.00	08392
08393	Ditto 200 mm high.....	567.00	08393
	<i>Each</i>		
08394	Extra over Item 08388 for integral "VTUM" single bowl basin.....	1,055.70	08394
08395	Extra over Item 08388 for integral "VTA2" single bowl basin.....	1,032.20	08395
08396	Extra over Item 08388 for integral "VTA4" single bowl basin.....	1,642.20	08396
08397	Extra over Item 08388 for integral "KS121" single sink.....	1,055.70	08397
08398	Extra over Item 08388 for integral "KS21" double sink.....	2,111.40	08398
08399	Extra over Item 08388 for sink, double, Model KS25, surell soap dispenser, surface mounted.....	2,111.40	08399

Item	SOLID SURFACING MATERIALS (CONT'D)	Supply and fix	Item
	Proprietary solid surface material fixed to wall of various colour range and finish including curved corner, round edge, fixing bracket, accessories, cut holes, pointing, jointing and sealing edges with sealant, etc. <i>Per square meter</i>	A \$	
08400	13mm thick "Wilsonart Gibraltar"	1,918.90	08400
08401	13mm thick "Corian"	2,631.60	08401
08402	13mm thick "Surell"	2,381.60	08402
SAFETY WALL PADDING			
	"Wolik" wall padding (for indoor purpose) backed with timber or plywood board painted with wood preservative and bonded to foam (complying with ASTM F-963-92 Standard Consumer Safety Specification on Toy Safety and containing no Class I nor Class II Ozone Depleting Chemical) and covered with "Marathon" flame retardant vinyl in any colour : - <i>Per square metre</i>		
08403	60 mm overall thickness wall padding to wall.....	1,524.90	08403
08404	Ditto to column.....	2,005.80	08404
	"Regupol" wall padding (for indoor purpose) backed with polyether and polyester-foam granule (complying with FM VSS 302) and covered with flame retardant vinyl in any colour : - <i>Per square metre</i>		
08405	22 mm wall padding to wall.....	2,036.30	08405
08406	Ditto to column.....	2,063.90	08406
	<i>Per square metre</i>		
08407	Take down and clear away wall padding of any thickness including backing (if any) fixed to wall or column.....	29.70	08407
ANTI-RICOCHAT SURFACES			
	"Regupol" anti-ricochat tile, size : 1000 x 500 x 43 mm thick, model: ET43 in any colour or pattern :- <i>Per square meter</i>		
08408	Anti-ricochat tile.....	1,123.70	08408
	<i>Each</i>		
08409	Anti-ricochat tile, total area not exceeding 0.50m2 of each Works Order.....	607.60	08409

Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only
A \$	B \$	C \$	D \$
1,123.70	16.40	58.70	117.30
607.60	8.20	29.30	58.70

Section 09

IRONMONGERY

IRONMONGERY

SPECIAL CONDITIONS

Measurement for ironmongery

- I. Various items of ironmongery shall be measured as follows : -
- (a) Butt, rising or falling butt, backflap, counter or Parliament hinge - Length along joint
 - (b) Cross garnet, tee or hook and ride hinge - Length from joint or knuckle to point
 - (c) Spring hinge and helical door spring - Length along spring
 - (d) Tower or barrel bolt - Length of shoot
 - (e) Monkey tail bolt - Length overall
 - (f) Flush bolt - Length of plate
 - (g) Casement stay - Length from hinge to point
 - (h) Cabin hook - Length of hook
 - (i) Hasp and staple - Length from hinge to point
 - (j) Fibre track and channel, sliding door gear track and channel, curtain track and valance rail - Net length fixed

Measurement for signage generally

- II. Circular or irregular shaped signs shall be measured as the smallest square or rectangle from which the sign can be cut.
- Cutting plastic sign shall be measured as a single cut and is only applicable to cutting shapes, features and the like other than for letters and characters.
- Cutting out letters, numbers or Chinese characters shall include for all full stops and commas. No separate payment shall be made. All punctuations other than full stops and commas shall be treated as letters. Logos, graphics and the like shall be measured as Chinese characters of the same size.

Finishes to ironmongery

- III. The rates for articles of ironmongery of a certain specified material shall include for any of the following materials and surfaces as required : -

Article specified as	Materials and surfaces included in the rate for the article specified
Plastic	Polythene, A.B.S., acrylics, P.V.C., polystyrene, nylon, melamine or similar materials
Steel	Steel or wrought iron left plain or with black Japanned finish
Galvanized	Galvanized or sherardized steel or wrought iron
Brass	Plain and lacquered, sanded and lacquered, or polished or buffed and lacquered
B.M.A.	Polished B.M.A. finish on brass or polished bronze
Plated brass	Polished nickel bronze plated or chromium plated brass, or satin nickel bronze plated or satin chromium plated brass
Aluminium	Mill finished or rough or soft textured finish, or polished, silver, bronzed or lustre anodised aluminium
Stainless steel	Polished surface or satin surface

Rates for ironmongery generally

- IV. The rates for ironmongery shall generally include for : -
- (a) Submission of samples, catalogues and certificates.
 - (b) Provision of ironmongery schedule as G.S. Item 14.21.

SPECIAL CONDITIONS (CONT'D)

IV.	<ul style="list-style-type: none"> (c) Requirements for key-alike or master-keying, if required. (d) Fixing to any type of timber or building board or other surfaces. (e) Provision of all necessary screws to match the ironmongery and all bolts, nuts, washers, nails, pins and the like. (f) Protecting with approved intumescent sheets or intumescent paint where required. (g) All housing, sinking, drilling and similar labours required to timber or other surface to which the article is being fixed. (h) All plugging in concrete, brick, stone or other floors, walls, columns, soffits and the like. (i) Cutting and grouting all mortices, pockets, etc., for bolts, bolt sockets, floor spring boxes and the like. (j) Oiling, easing and adjusting, and leaving ironmongery in perfect working order. (k) Making good disturbed surfaces. 	Rates for ironmongery generally (Cont'd)
V.	<p>The rates for bolts shall further include for : -</p> <ul style="list-style-type: none"> (a) All sockets, staples plates, thimbles, etc. and all necessary accessories. (b) Square or circular, straight or necked shoot. 	Rates for bolts
VI.	<p>The rates for locks shall further include for : -</p> <ul style="list-style-type: none"> (a) Provision of knob with or without rose, lever handles with cover plates, key hole escutcheon, etc. and the like. (b) Provision of keys and identification discs. (c) Stamping number on lock face. 	Rates for locks
VII.	<p>The rates for "Taking down" ironmongery shall include for : -</p> <ul style="list-style-type: none"> (a) Piecing out and filling all old housing, sinking, screw holes, mortices and the like. (b) Finishing surface fair and spot painting, polishing or making good. 	Rates for "Taking down" ironmongery
VIII.	<p>The rates for plastic or metal signs, silkscreen printing and translucent film signage shall generally include for : -</p> <ul style="list-style-type: none"> (a) Setting out, cutting to size, bevelling and polishing edges, and anodising after manufactured as required. (b) Drilling, plugging and screwing with brass, chromium plated or stainless steel screws, or fixing with approved adhesive or fixing on a special suspension system (measured separately). (c) Providing backing plate with colour coating, powder coating, anodized or polished finish on all exposed surfaces before silkscreen printing or after cut out or cut through signage. (d) Temporary protection with mask as required. (e) Making good disturbed surfaces. 	Rates for plastic or metal signs, silkscreen printing and translucent film signage generally

SPECIAL CONDITIONS (CONT'D)

Rates for silkscreen printing and translucent film signage to existing surfaces	IX.	The rates for silkscreen printing and translucent film signage to existing surfaces shall further include for : - (a) Preparing substrate surface to receive silkscreen printing or translucent film.
Rates for plastic signs with cut through letters, Chinese characters and the like	X.	The rates for plastic signs with cut through letters, Chinese characters and the like shall further include for : - (a) Cutting through for letters, numbers, Chinese characters, graphics, punctuations and the like. (b) Plastic sign plate of any colour or finishes. (c) Finishing with polished edges.
Rates for letter or number signs cut from plastic or metal sheet	XI.	The rates for letter or number signs cut from plastic or metal sheet shall further include for : - (a) Cutting out from sheets. (b) In the case of plastic signs, any colour or finishes. (c) Finishing with polished edges. (d) Fixing with moulded metal/plastic pegs or projecting plastic. (e) In the case of anodised aluminium signs, re-anodise after fabrication.
Rates for engraved plastic sign face	XII.	The rates for engraved plastic sign face shall further include for : - (a) Picking out with paint either in single or multi-colour for engraved letters, number, Chinese characters, graphics, punctuations and the like. (b) Provision of plastic backing plate. (c) Finishing with mirror face when engraved on the back of the plastic.
Rates for acid etched stainless steel sign face	XIII.	The rates for acid etched stainless steel sign face shall further include for : - (a) Picking out with paint either in single or multi-colour for acid etched letters, number, Chinese characters, graphics, punctuations and the like. (b) Provision of stainless steel backing plate. (c) Finishing with polished face.
Government stores or other designated suppliers	XIV.	Where ironmongery is obtained from Government stores or other designated suppliers, the rates for "Fix only" will be paid.

Item	HINGES	Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only	Item
		Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel				
		A	B	C	D	E	F	G				
	<i>Per pair</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
09001	40 mm Butt hinges.....	13.20	-	30.50	31.60	32.60	-	23.40	2.00	4.40	11.10	09001
09002	50 mm Ditto.....	15.70	-	33.80	34.80	36.00	-	26.40	2.40	5.30	13.30	09002
09003	65 mm Ditto.....	18.30	-	37.00	38.20	39.30	-	29.50	2.80	6.20	15.50	09003
09004	75 mm Ditto.....	20.00	-	40.40	41.40	42.40	-	32.30	3.00	6.70	16.60	09004
09005	100 mm Ditto.....	32.60	-	78.20	80.70	82.90	-	59.70	4.00	8.90	22.20	09005
09006	125 mm Ditto.....	-	-	130.00	134.10	140.30	-	90.20	5.00	11.10	27.70	09006
09007	100 mm Butt hinges with nylon bushes.....	-	31.60	69.20	73.30	75.40	-	53.40	4.00	8.90	22.20	09007
09008	125 mm Ditto.....	-	46.00	98.90	104.50	108.60	-	74.60	5.00	11.10	27.70	09008
09009	75 mm Rising or falling butt hinges.....	-	-	99.90	102.00	104.00	-	-	4.00	8.90	22.20	09009
09010	100 mm Ditto.....	-	-	113.70	115.70	117.80	-	74.60	5.00	11.10	27.70	09010
09011	40 mm Backflap hinges.....	16.30	-	113.40	115.30	-	-	-	2.00	4.40	11.10	09011
09012	50 mm Ditto.....	19.80	-	119.70	121.70	-	-	-	2.40	5.30	13.30	09012
09013	75 mm Ditto.....	24.40	-	129.20	131.20	-	-	-	3.00	6.70	16.60	09013
09014	25 mm Counter hinges.....	-	-	76.10	80.20	-	-	56.30	3.40	7.50	18.90	09014
09015	30 mm Ditto.....	-	-	91.60	103.50	-	-	-	3.60	8.00	20.00	09015
09016	40 mm Ditto.....	-	-	101.80	115.50	-	-	-	3.60	8.00	20.00	09016
09017	75 mm Parliament hinges.....	-	-	94.40	98.50	-	-	-	3.00	6.70	16.60	09017
09018	100 mm Ditto.....	-	-	120.40	124.50	-	-	87.80	4.00	8.90	22.20	09018
09019	150 mm Ditto.....	-	-	144.70	150.90	-	-	107.20	5.80	12.90	32.20	09019
09020	Cranked or semi-concealed cupboard hinges.....	-	48.60	78.60	-	82.70	-	58.00	2.00	4.40	11.10	09020
09021	Fully concealed cupboard hinges.....	-	25.70	38.70	-	40.30	-	29.80	2.00	4.40	11.10	09021

IRONMONGERY

09001 - 09021

Item	HINGES (CONT'D)	Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only	Item
		Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel				
		A	B	C	D	E	F	G				
	<i>Per pair</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$		
09022	Cross garnet or tee hinges up to 150 mm long.....	23.60	26.10	-	-	-	-	-	1.80	4.00	10.00	09022
09023	Ditto 150 - 225 mm long.....	52.30	55.60	-	-	-	-	-	2.40	5.30	13.30	09023
09024	Ditto 225 - 300 mm long.....	84.30	89.00	-	-	-	-	-	3.00	6.70	16.60	09024
09025	Ditto 300 - 450 mm long.....	122.50	128.30	-	-	-	-	-	3.80	8.40	21.10	09025
09026	Ditto 450 - 600 mm long.....	157.80	164.50	-	-	-	-	-	5.00	11.10	27.70	09026
09027	Hook and ride hinges, local made heavy pattern, with hook riveted to plate up to 300 mm long.....	79.00	83.70	-	-	-	-	118.20	3.00	6.70	16.60	09027
09028	Ditto 300 - 450 mm long.....	115.80	122.70	-	-	-	-	174.50	4.00	8.90	22.20	09028
09029	Ditto 450 - 600 mm long.....	144.80	153.40	-	-	-	-	218.10	5.00	11.10	27.70	09029
09030	Ditto 600 - 750 mm long.....	178.90	189.70	-	-	-	-	270.20	6.00	13.30	33.30	09030
09031	Ditto 750 - 900 mm long.....	215.70	228.80	-	-	-	-	326.50	6.90	15.50	38.80	09031
09032	Add to either of Items 09027 to 09031 if hook plate is flanged for and cast into concrete, brick or stone wall including cutting mortice and grouting.....	6.80	6.80	-	-	-	-	6.80	2.20	4.90	6.80	09032
09033	75 mm Single action spring hinges.....	61.20	69.10	-	-	-	-	84.70	4.00	8.90	22.20	09033
09034	100 mm Ditto.....	79.00	90.10	-	-	-	-	102.50	4.30	9.80	24.40	09034
09035	150 mm Ditto.....	96.80	111.10	-	-	-	-	139.10	4.80	10.60	26.60	09035
09036	75 mm Double action spring hinges.....	61.20	65.10	-	-	-	-	151.90	4.00	8.90	22.20	09036
09037	100 mm Ditto.....	64.70	70.00	-	-	-	-	188.40	4.30	9.80	24.40	09037
09038	150 mm Ditto.....	98.10	104.40	-	-	-	-	354.70	4.80	10.60	26.60	09038
	<i>Per pair</i>											
09039	75 mm Wrot iron safety hinges.....	16.50	1.80	4.00	10.00							09039
09040	100 mm Ditto.....	23.30	2.80	6.20	15.50							09040

Item	HINGES (CONT'D)					Item						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only							
<i>Per linear metre</i>		A	B	C	D							
		\$	\$	\$	\$							
09041	Stainless steel piano hinge.....	76.90	4.00	8.90	22.20	09041						
09042	Ditto but with mirror face finish.....	84.70	4.00	8.90	22.20	09042						
09043	Stainless steel self-closing piano hinge.....	88.90	4.00	8.90	22.20	09043						
09044	Ditto but with mirror face finish.....	96.80	4.00	8.90	22.20	09044						
BOLTS		Supply and fix						Take down and clear away	Take down and set aside for re-use	Fix only	Item	
		Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium					Stainless steel
<i>Each</i>		A	B	C	D	E	F	G	H	I	J	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
09045	Tower or barrel bolt n.e. 75 mm long.....	20.60	22.30	47.50	53.90	57.10	29.80	38.90	1.60	3.60	8.90	09045
09046	Ditto 75 - 150 mm long.....	25.40	27.50	58.30	66.10	70.00	36.60	45.50	2.00	4.40	11.10	09046
09047	Ditto 150 - 225 mm long.....	30.20	32.70	69.10	78.30	83.00	43.50	48.80	2.40	5.30	13.30	09047
09048	Ditto 225 - 300 mm long.....	41.50	45.30	101.30	115.50	124.80	-	70.20	2.80	6.20	15.50	09048
09049	Ditto 300 - 450 mm long.....	46.40	50.50	112.10	127.80	135.60	-	80.20	3.20	7.10	17.70	09049
09050	Ditto 450 - 600 mm long.....	58.90	63.50	130.60	-	-	-	105.80	5.00	11.10	27.70	09050
09051	Ditto 600 - 750 mm long.....	68.20	73.10	145.80	-	-	-	128.10	6.10	13.80	34.40	09051
09052	Ditto 750 - 900 mm long.....	73.00	78.30	156.60	-	-	-	146.00	6.60	14.60	36.60	09052
09053	Ditto 900 - 1,050 mm long.....	77.80	83.50	-	-	-	-	163.80	6.90	15.50	38.80	09053
09054	Ditto 1,050 - 1,200 mm long.....	82.60	88.70	-	-	-	-	197.30	7.30	16.40	41.00	09054
09055	Monkey tail bolt n.e. 450 mm long.....	37.80	40.00	-	-	-	-	68.00	4.00	8.90	22.20	09055
09056	Ditto 450 - 600 mm long.....	51.70	54.50	-	-	-	-	89.50	5.80	12.90	32.20	09056
09057	Ditto 600 - 750 mm long.....	69.50	73.40	-	-	-	-	122.30	7.50	16.90	42.10	09057
09058	Ditto 750 - 900 mm long.....	78.90	83.40	-	-	-	-	139.30	8.50	19.10	47.70	09058

IRONMONGERY

09041 - 09058

Item **BOLTS (CONT'D)**

Item

	Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only	Item	
	Steel	Gal- vanized	Brass	B.M.A.	Plated brass	Alu- minium	Stainless steel					
	A \$	B \$	C \$	D \$	E \$	F \$	G \$					H \$
<i>Each</i>												
09059	Monkey tail bolt 900 - 1,050 mm long.....	92.20	97.90	-	-	-	-	170.00	9.50	21.30	53.20	09059
09060	Ditto 1,050 - 1,200 mm long.....	99.50	104.20	-	-	-	-	182.60	10.10	22.60	56.60	09060
09061	Flush bolt with sunk slide n.e. 75 mm long.....	-	-	70.70	77.90	81.40	50.90	55.10	5.00	11.10	27.70	09061
09062	Ditto 75 - 150 mm long.....	-	-	78.10	86.00	89.90	57.70	62.50	5.60	12.40	31.10	09062
09063	Ditto 150 - 225 mm long.....	-	-	85.50	94.10	98.30	63.30	68.60	6.10	13.80	34.40	09063
09064	Ditto 225 - 300 mm long.....	-	-	93.00	102.20	106.80	69.10	74.70	6.70	15.10	37.70	09064
09065	Lever flush bolt n.e. 75 mm long.....	-	-	72.90	80.10	83.50	53.20	57.30	5.30	12.00	29.90	09065
09066	Ditto 75 - 150 mm long.....	-	-	80.30	88.20	93.00	58.70	63.20	6.00	13.30	33.30	09066
09067	Ditto 150 - 225 mm long.....	-	-	86.60	95.20	100.90	63.20	68.00	6.30	14.20	35.50	09067
09068	Ditto 225 - 300 mm long.....	-	-	95.20	104.40	111.00	69.80	75.10	7.10	16.00	39.90	09068
09069	Ditto 300 - 450 mm long.....	-	-	109.20	119.10	126.70	-	87.70	8.90	20.00	49.90	09069
09070	Ditto 450 - 600 mm long.....	-	-	118.90	129.50	134.70	-	95.80	9.90	22.20	55.40	09070
09071	Indicating bolt.....	-	-	94.70	98.80	100.80	-	72.30	6.00	13.30	33.30	09071
09072	Mortise dead bolt with indicator and long lever turn for handicap.....	-	-	-	-	-	-	342.40	6.00	13.30	33.30	09072
09073	Panic bolt Class B to BS EN 1125 Part 1 comprising horizontal activating bar and vertical shoots to suit single door.....	-	-	-	568.90	-	-	693.10	12.90	28.80	72.10	09073
09074	Ditto but to suit pair of doors.....	-	-	-	953.30	-	-	1,164.40	19.40	43.50	108.70	09074
09075	Add to either of Items 09073 to 09074 for cylinder locking device from outside.....	-	-	-	-	-	-	676.50	9.90	22.20	55.40	09075
09076	Flat bolt plate for any size shoot.....	-	-	5.40	6.40	8.40	-	4.80	0.60	1.30	3.30	09076
09077	Bolt socket of any size for surface fixing.....	-	-	9.50	11.50	15.60	-	7.80	0.60	1.30	3.30	09077
09078	Bolt socket of any size for letting into and including cutting mortice in concrete, brick, stone or similar surface and grouting in and making good.....	-	-	15.60	-	-	-	14.00	0.60	3.80	9.50	09078

(Note : The items 09076 - 09078 will only be paid if ordered by the Maintenance surveyor in writing for repairs)

Item	BOLTS (CONT'D)										Item	
					Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only	
					A	B	C	D				
					\$	\$	\$	\$				
09079	"Dryad Simplan" handicap indicator bolts with long lever operated, model : B67MP or model : 67RP.....										09079	
09080	"ASSA" mortise privacy lock for handicap with indicator and emergency release, model : 565HD/70 x 9565T x 2801-11.....										09080	
					Supply and fix			Take down and clear away	Take down and set aside for re-use	Fix only		
	Cast alloy silver finish		Brass	Stainless steel	D	E	F					
	A		B	C	D	E	F					
	\$		\$	\$	\$	\$	\$					
09081	Panic bolt Class A to BS EN 1125 Part 1 comprising horizontal activating bar and vertical shoots to suit single door.....										09081	
09082	Ditto but to suit double leaf door.....										09082	
					Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only	
	Cast alloy silver finish		Brass	Stainless steel	D	E	F					
	A		B	C	D	E	F					
	\$		\$	\$	\$	\$	\$					
09083	"Detex ECL-230d" emergency panic device including back-up battery alarm system (power supply measured separately).....										09083	
09084	"Yale" rim exit device with alarm kit, model : 2100F-36" + 2116 (power supply measured separately).....										09084	
					Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only	
	Cast alloy silver finish		Brass	Stainless steel	D	E	F					
	A		B	C	D	E	F					
	\$		\$	\$	\$	\$	\$					
09085	Latch with knob set in stainless steel.....										09085	
09086	Bathroom lock including knob set with push button on one side and emergency device on the other side.....										09086	
09087	Lock including knob set with push button on one side and locking device on the other side.....										09087	
09088	Combined latch and dead lock including knob set with thumb turn on one side and locking device on the other side.....										09088	
	KEY IN THE KNOB TYPE LOCK AND LATCH SETS											
	Supply and fix						Take down and clear away	Take down and set aside for re-use	Fix only			
	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel	H	I	J		
	A	B	C	D	E	F	G	H	I	J		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
09085	-	-	-	-	-	-	80.50	6.00	13.30	33.30	09085	
09086	-	-	-	-	-	-	87.40	6.80	15.10	37.70	09086	
09087	-	-	-	-	-	-	87.40	6.80	15.10	37.70	09087	
09088	-	-	-	-	-	-	246.20	10.70	23.90	59.90	09088	

80/98

IRONMONGERY

09079 - 09088

Item **LOCKS AND LATCHES**

Item

Item	Description	Supply and fix						Take down and clear away	Take down and set aside for re-use	Fix only	Item	
		Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium					Stainless steel
		A	B	C	D	E	F					G
	<i>Each</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$		
09089	Suffolk latch with 200 x 50 mm plate.....	120.90	-	-	-	-	-	5.00	11.10	27.70	09089	
09090	Rim latch with case, staple and brass spring bolt.....	95.40	-	-	-	-	-	6.00	13.30	33.30	09090	
09091	Upright mortice latch with brass spring bolt and striking plate.....	131.30	-	-	-	-	-	7.90	17.70	44.40	09091	
09092	Horizontal ditto.....	125.10	-	-	-	-	-	7.90	17.70	44.40	09092	
09093	150 mm Rim dead lock with case, staple, brass bolt and three lever mechanism.....	67.20	-	-	-	-	-	5.30	12.00	29.90	09093	
09094	150 mm Rim lock with case, staple, brass dead and spring bolt and three lever mechanism.....	67.20	-	-	-	-	-	5.30	12.00	29.90	09094	
09095	Horizontal mortice dead lock with brass bolt, keeper and four lever mechanism.....	130.60	-	-	-	-	-	8.90	20.00	49.90	09095	
09096	Ditto but with rebated fore-end.....	161.00	-	-	-	-	-	9.90	22.20	55.40	09096	
09097	Upright mortice lock with brass dead and spring bolt, striking plate and four lever mechanism.....	211.40	-	-	-	-	-	8.90	20.00	49.90	09097	
09098	Ditto but with rebated fore-end.....	226.80	-	-	-	-	-	9.90	22.20	55.40	09098	
09099	Horizontal mortice lock with brass dead and spring bolt, striking plate and four lever mechanism.....	208.90	-	-	-	-	-	8.90	20.00	49.90	09099	
09100	Ditto but with rebated fore-end.....	229.30	-	-	-	-	-	9.90	22.20	55.40	09100	
09101	Cylinder rim night latch (reversible) with staple, brass bolt, cylinder, thumb slide, knob and three keys.....	107.40	-	-	-	-	-	10.30	23.10	57.70	09101	
09102	Cylinder mortice night latch with brass bolt, cylinder, thumb turn and three keys.....	171.40	-	-	-	-	-	12.90	28.80	72.10	09102	
09103	Flush cupboard, drawer or desk lock with four lever mechanism.....	43.70	-	-	-	-	-	5.10	11.50	28.80	09103	
09104	Ditto but with four pin tumbler mechanism.....	40.00	-	-	-	-	-	5.10	11.50	28.80	09104	
09105	Self locking flush cupboard, drawer or desk lock with brass spring bolt and four pin tumbler mechanism.....	41.30	-	-	-	-	-	5.10	11.50	28.80	09105	
09106	50 mm Padlock with hardened steel shackle and four lever mechanism.....	-	28.20	34.40	-	-	-	-	-	3.30	09106	
09107	75 mm Ditto.....	-	34.40	40.60	-	-	-	-	-	3.30	09107	
09108	50 mm padlock with hardened steel shackle and five pin tumbler mechanism.....	-	-	40.60	-	-	-	39.30	-	3.30	09108	
09109	75 mm Ditto.....	-	-	46.80	-	-	-	-	-	3.30	09109	

Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only
A \$	B \$	C \$	D \$
1,428.10	12.90	28.80	72.10
2,339.70	17.30	29.70	74.10
359.30	8.70	19.50	48.80

Each

09110	Mechanical digital lock.....	1,428.10	12.90	28.80	72.10	09110
09111	Unican Ref. A1000-1 push button combination lock.....	2,339.70	17.30	29.70	74.10	09111
09112	L2 Series ANSI grade 2 key-in-lever lockset	359.30	8.70	19.50	48.80	09112

DOOR FURNITURE

Replacement parts only :-

Supply and fix								Take down and clear away	Take down and set aside for re-use	Fix only
Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel			
A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$
-	-	-	10.70	11.50	11.90	7.20	10.50	0.60	1.30	3.30
-	-	-	13.30	13.60	14.10	8.50	12.70	0.60	1.30	3.30
-	16.00	-	30.10	31.30	32.10	21.10	29.00	1.00	2.20	5.50
-	-	-	87.40	97.60	103.80	57.40	83.70	1.00	2.20	5.50
-	24.60	-	40.20	45.90	47.60	31.80	39.00	2.00	4.40	11.10
-	-	-	174.80	195.30	207.50	114.80	167.30	2.00	4.40	11.10

Each

09113	Key hole escutcheon.....	-	-	-	10.70	11.50	11.90	7.20	10.50	0.60	1.30	3.30	09113
09114	Ditto with cover.....	-	-	-	13.30	13.60	14.10	8.50	12.70	0.60	1.30	3.30	09114
09115	Single knob with rose if required.....	-	16.00	-	30.10	31.30	32.10	21.10	29.00	1.00	2.20	5.50	09115
09116	Single lever handle with cover plate if required.....	-	-	-	87.40	97.60	103.80	57.40	83.70	1.00	2.20	5.50	09116
09117	Set of knob furniture complete with roses or cover plates and spindle.....	-	24.60	-	40.20	45.90	47.60	31.80	39.00	2.00	4.40	11.10	09117
09118	Set of lever handles ditto.....	-	-	-	174.80	195.30	207.50	114.80	167.30	2.00	4.40	11.10	09118

Item DOOR SEALS

Item

09119-09133

IRONMONGERY

		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$	
09119	Proprietary aluminium acoustic door seal with neoprene inserts.....	112.50	2.00	4.40	11.10	09119
09120	Ditto aluminium adjustable perimeter door seal with neoprene.....	199.70	2.00	4.40	11.10	09120
09121	Ditto aluminium door perimeter seal with neoprene inserts for door meeting stile.....	101.10	2.00	4.40	11.10	09121
09122	Ditto perimeter sound/smoke/weather/draught/dust door seal with neoprene inserts.....	112.50	2.00	4.40	11.10	09122
09123	Ditto aluminium door bottom seal for automatic door with neoprene inserts.....	380.70	2.00	4.40	11.10	09123
09124	Ditto aluminium door bottom seal with neoprene inserts.....	136.60	2.00	4.40	11.10	09124
09125	Ditto aluminium bumper thresholds door seal with neoprene inserts.....	321.70	2.00	4.40	11.10	09125
09126	Ditto aluminium door head seal with neoprene inserts.....	98.30	2.00	4.40	11.10	09126

DOOR SPRINGS AND HOLDERS

		Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only		
		Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium					Stainless steel
		A \$	B \$	C \$	D \$	E \$	F \$	G \$					H \$
09127	Single action floor spring and top centre with or without check.....	-	-	-	-	-	-	-	742.50	21.80	48.80	122.00	09127
09128	Double action ditto.....	-	-	-	-	-	-	-	866.80	21.80	48.80	122.00	09128
09129	Spring action type floor door holder with rubber door stop.....	-	-	-	89.60	-	99.80	-	-	1.40	3.10	7.80	09129
09130	Door holder, clip pattern.....	-	45.70	-	-	-	-	-	-	1.20	2.70	6.70	09130
09131	40 mm Diameter rubber door stop.....	4.40	-	-	-	-	-	-	9.70	0.30	0.80	1.90	09131
09132	40 mm Ditto but with plate fixing.....	-	5.50	-	8.40	-	-	6.10	-	0.40	0.90	2.20	09132
09133	Door stopper, dome shape with rubber buffer, chrome plated.....	-	-	-	-	-	37.80	-	-	1.40	3.10	7.80	09133

Item	DOOR SPRINGS AND HOLDERS (CONT'D)										Item	
	Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only		
	A	B	C	D	E	F	G	H	I	D		
	Each											
09134	Overhead door closer, light duty non-hold open.....	263.90	13.90	31.10	77.60						09134	
09135	Overhead door closer, heavy duty non-hold open.....	326.00	13.90	31.10	77.60						09135	
09136	Extra over Items 09134 - 09135 inclusive with delayed action.....	89.40	-	-	-						09136	
	FITTINGS FOR SASHES AND FANLIGHTS, ETC.											
		Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only	
		Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel				
		A	B	C	D	E	F	G	H	I	J	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
09137	75 mm Cleat hook.....	-	-	14.40	16.50	20.60	-	-	1.00	1.70	4.20	09137
09138	Spring catch with projecting ring and strike plate or staple.....	-	-	30.60	40.80	51.00	-	-	2.40	4.10	10.10	09138
09139	Staple only for spring catch.....	-	-	12.40	14.40	16.50	-	-	1.00	1.70	4.20	09139
09140	15 mm Internal diameter screw eye.....	-	-	8.70	9.70	10.70	-	-	0.60	1.00	2.50	09140
09141	Casement fastener with 115 mm handle and hook or mortice plate.....	-	61.30	71.50	81.70	87.90	49.00	-	2.40	4.10	10.10	09141
09142	200 mm Casement stay with two stud pins.....	25.70	-	39.90	44.50	-	29.90	32.90	3.00	5.10	12.60	09142
09143	250 mm Ditto.....	27.80	-	43.50	48.50	-	32.50	35.80	3.20	5.40	13.50	09143
09144	300 mm Ditto.....	29.90	-	47.10	52.50	-	35.10	38.70	3.40	5.70	14.30	09144
09145	Single stud pins.....	10.30	-	17.30	19.40	-	12.80	14.20	1.20	2.00	5.10	09145
09146	250 mm Sliding bar type casement stay.....	47.40	-	76.40	82.60	-	52.40	59.70	2.60	4.40	11.00	09146
09147	300 mm Ditto.....	51.70	-	84.30	92.50	-	58.00	65.80	3.00	5.10	12.60	09147
09148	Fanlight opener with 300 mm long rack and pinion, worm wheel, pulley and endless cord.....	-	-	225.70	-	-	-	-	8.30	14.00	21.10	09148
09149	Ditto but with 375 mm long rack and pinion.....	-	-	238.00	-	-	-	-	8.30	14.00	21.10	09149
09150	Ditto but with 450 mm long rack and pinion.....	-	-	250.30	-	-	-	-	8.30	14.00	21.10	09150
09151	Set of two sash pivots and sockets.....	-	-	90.90	-	-	-	-	6.90	11.80	29.50	09151
09152	Pair of 150 mm long quadrant stays.....	-	-	50.30	56.50	-	-	-	3.20	5.40	13.50	09152
09153	Ditto but 200 mm long.....	-	-	57.30	64.50	-	-	-	3.40	5.70	14.30	09153
09154	Ditto but 250 mm long.....	-	-	64.30	72.50	-	-	-	3.60	6.10	15.20	09154

IRONMONGERY

09134-09154

Item	WINDOW OPENERS					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	'ARENS' manually operated torque arm system including all necessary accessories in accordance with the manufacturer's recommendations : -					
	<i>Each</i>					
09155	Window opener for 1 sash high level window.....	941.90	11.30	15.20	21.10	09155
09156	Ditto but 2 sashes.....	1,177.30	22.50	30.40	42.20	09156
09157	Ditto but 3 sashes.....	1,412.80	33.80	45.50	63.20	09157
09158	Ditto but 4 sashes.....	1,648.20	45.10	60.70	84.30	09158
09159	Add to Item 09158 for one additional sash.....	235.50	11.30	15.20	21.10	09159
	'ARENS' electrically operated torque arm system including all necessary accessories in accordance with the manufacturer's recommendations (power supply measured separately) : -					
	<i>Each</i>					
09160	Windows opener for 1 sash high level windows.....	1,255.80	13.30	18.20	28.20	09160
09161	Ditto but 2 sashes.....	1,491.30	26.60	36.40	56.30	09161
09162	Ditto but 3 sashes.....	1,726.70	39.90	54.60	84.50	09162
09163	Ditto but 4 sashes.....	1,962.20	53.10	72.80	112.60	09163
09164	Add to the Item 09163 for one additional sash.....	235.50	13.30	18.20	28.20	09164
	'UCS' manually operated torque arm system including all necessary accessories in accordance with the manufacturer's recommendations : -					
	<i>Each</i>					
09165	Windows opener for 1 sash high level windows.....	1,047.40	11.30	15.20	21.10	09165
09166	Ditto but 2 sashes.....	1,539.50	22.50	30.40	42.20	09166
09167	Ditto but 3 sashes.....	1,934.90	33.80	45.50	63.20	09167
09168	Ditto but 4 sashes.....	2,378.60	45.10	60.70	84.30	09168
09169	Add to the Item 09168 for one additional sash.....	492.00	11.30	15.20	21.10	09169

Item	WINDOW OPENERS (CONT'D)											Item						
	'UCS' electrically operated torque arm system including all necessary accessories in accordance with the manufacturer's recommendations (power supply measured separately) :-							Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only							
	<i>Each</i>							A \$	B \$	C \$	D \$							
09170	Windows opener for 1 sash high level windows.....							2,463.10	13.30	18.20	48.10	09170						
09171	Ditto but 2 sashes.....							2,994.20	26.60	36.40	96.20	09171						
09172	Ditto but 3 sashes.....							3,525.20	39.90	54.60	144.20	09172						
09173	Ditto but 4 sashes.....							4,056.30	53.10	72.80	192.30	09173						
09174	Add to the Item 09173 for one additional sash.....							519.00	13.30	18.20	48.10	09174						
	FITTINGS FOR SLIDING SASHES, ETC.																	
								Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only				
								Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel				
	<i>Each</i>							A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	
09175	15 mm Diameter sash rollers with frame and face plate.....							-	-	64.70	-	-	-	-	3.20	5.40	13.50	09175
09176	20 mm Diameter ditto.....							-	-	75.70	-	-	-	-	3.40	5.70	14.30	09176
09177	Sash axle pulley with brass face, galvanized steel frame and 40 mm diameter brass wheel.....							-	-	93.80	-	-	-	-	3.80	6.40	16.00	09177
09178	Ditto but with 50 mm diameter brass wheel.....							-	-	108.90	-	-	-	-	4.00	6.70	16.90	09178
09179	25 mm Internal diameter sash eye on plate.....							-	-	32.10	36.20	-	-	-	1.30	2.20	5.50	09179
09180	Sash hook pattern lift on 50 mm plate.....							-	-	28.40	34.60	42.70	-	-	1.40	2.40	5.90	09180
09181	Sash flush pattern lift size 75 x 40 mm overall.....							-	-	47.80	56.00	62.10	-	-	2.60	4.40	11.00	09181
09182	Iron sash weight with hook or plate for cord attachment weighing 1.50 kg including providing and fixing cord.....							55.90	-	-	-	-	-	-	4.00	6.70	16.90	09182
09183	Add for each additional 0.50 kg or part thereof in weight.....							14.70	-	-	-	-	-	-	0.40	0.70	1.70	09183
09184	Pair of spiral rods and tension spring sash balances for sash weighing n.e. 13 kg and height of run n.e. 2 m.....							-	276.80	-	-	-	-	-	9.90	16.90	42.20	09184
09185	Ditto but for sash weighing 13 kg - 20 kg.....							314.60	-	-	-	-	-	-	10.90	18.60	46.40	09185
09186	Ditto but for sash weighing 20 kg - 27 kg.....							345.60	-	-	-	-	-	-	11.90	20.20	50.60	09186

IRONMONGERY

09170-09186

Item	FITTINGS FOR JALOUSIES AND TYPHOON BARS										Item	
	Supply and fix								Take down and clear away	Take down and set aside for re-use		Fix only
	Plastic	Steel	Gal- vanized	Brass	B.M.A.	Plated brass	Alu- minium	Stainless steel				
A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$		
	Each											
09187	Wrot iron turn buckle comprising 150 x 25 x 5 mm plate flanged one end with 15 x 15 mm pin 75 mm long filed circular for half the length and fitted with 75 x 25 x 5 mm turn buckle splayed one end and holed for 15 x 15 mm pin.....										09187	
09188	Bar clip 150 x 40 x 5 mm twice bent and three times holed for screws.....										09188	
09189	Eye for movable louvre.....										09189	
09190	8 mm Diameter butterfly headed thumb screw 150 mm long.....										09190	
09191	Ditto but 200 mm long.....										09191	
09192	50 x 50 x 3 mm Plate holed for thumb screw and four fixing screws.....										09192	
09193	Ditto with tapped shoulder to receive 8 mm diameter screw.....										09193	
	FITTINGS FOR DOOR AND CUPBOARD											
	Per square metre											
09194	1.60 mm Kicking plate with bevelled edges if required and holed for screws.....										09194	
	Each											
09195	Local pattern "Magic Eye" observation eyehole fitting.....										09195	
09196	Cupboard door pull knob.....										09196	
09197	Ditto with 50 mm diameter back plate.....										09197	
09198	Bales catch with plate size 28 x 10 mm.....										09198	
09199	Ditto but plate size 40 x 15 mm.....										09199	
09200	Ditto but plate size 50 x 20 mm.....										09200	
09201	45 x 18 mm Magnetic door catch.....										09201	
09202	Drawer, wardrobe or cupboard pull handle 100 mm long.....										09202	
09203	Ditto but 150 mm long.....										09203	

Item	FITTINGS FOR DOOR AND CUPBOARD (CONT'D)											Item	
	Supply and fix								Take down and clear away	Take down and set aside for re-use	Fix only		
	Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel					
	<i>Each</i>	A	B	C	D	E	F	G	H	I	J	K	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
09204	Door pull handle 225 mm long.....	-	-	-	54.10	61.20	64.80	38.40	43.30	2.00	4.40	11.10	09204
09205	Ditto but 300 mm long.....	-	-	-	83.80	95.70	101.70	57.20	65.30	2.20	4.90	12.20	09205
09206	300 x 75 mm Finger plate.....	-	-	-	64.50	72.70	79.10	43.50	50.00	1.30	2.90	7.20	09206
09207	75 x 45 mm Flush pattern drop drawer handle.....	-	-	-	28.00	34.10	36.20	-	-	3.20	7.10	17.70	09207
09208	75 x 40 mm Flush pull handle.....	30.10	-	-	-	31.00	33.00	25.20	-	3.00	6.70	16.60	09208
09209	100 x 50 mm Ditto.....	31.20	-	-	-	32.00	34.00	25.80	-	3.00	6.70	16.60	09209
09210	75 x 40 mm Card holder frame.....	18.70	-	-	20.30	23.00	24.40	-	-	0.70	1.60	3.90	09210
09211	100 x 75 mm Ditto.....	21.90	-	-	23.60	26.70	28.20	-	-	0.90	2.00	4.90	09211
09212	150 x 100 mm Ditto.....	29.20	-	-	31.60	35.90	38.10	-	-	1.10	2.30	5.90	09212
09213	25 x 1.60 mm Hanging plate.....	-	-	-	16.20	-	-	-	-	0.70	1.60	3.90	09213
09214	40 x 1.60 mm Ditto.....	-	-	-	17.20	-	-	-	-	0.70	1.60	3.90	09214
09215	50 x 1.60 mm Ditto.....	-	-	-	18.20	-	-	-	-	0.70	1.60	3.90	09215
09216	50 mm Coat hook.....	-	-	-	20.30	24.40	28.40	14.30	-	0.70	1.60	3.90	09216
09217	100 mm Hat and coat hook.....	-	-	-	22.30	26.40	30.50	15.60	-	0.70	1.60	3.90	09217
09218	75 mm Combined hook and rubber door stop.....	-	-	-	19.20	22.30	25.40	13.40	-	0.70	1.60	3.90	09218
09219	25 mm Cup hook.....	-	-	-	7.30	-	10.20	-	-	0.20	0.50	1.10	09219
09220	50 mm Hook.....	-	-	9.70	20.10	-	24.20	-	-	0.30	0.70	1.70	09220
09221	100 x 75 mm Shelf bracket.....	-	17.60	-	-	-	-	-	-	2.00	4.40	11.10	09221
09222	150 x 125 mm Ditto.....	-	23.10	-	-	-	-	-	-	2.40	5.30	13.30	09222
09223	225 x 175 mm Ditto.....	-	29.10	-	-	-	-	-	-	2.60	5.80	14.40	09223
09224	300 x 250 mm Ditto.....	-	36.10	-	-	-	-	-	-	3.00	6.70	16.60	09224
09225	100 mm Cabin hook and eye.....	-	31.90	-	54.70	62.00	65.70	-	-	2.00	4.40	11.10	09225

IRONMONGERY

09204 - 09225

Item **FITTINGS FOR DOOR AND CUPBOARD (CONT'D)**

Item

		Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only		
		Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium					Stainless steel
		A	B	C	D	E	F	G					H
	<i>Each</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
09226	150 mm Cabin hook and eye.....	-	44.30	-	71.70	79.90	84.00	-	-	2.60	5.80	14.40	09226
09227	200 mm Ditto.....	-	50.20	-	85.90	97.30	103.00	-	-	3.20	7.10	17.70	09227
09228	250 mm Ditto.....	-	56.20	-	94.70	107.00	113.20	-	-	3.80	8.40	21.10	09228
09229	300 mm Ditto.....	-	62.10	-	103.50	116.70	123.30	-	-	4.30	9.80	24.40	09229
09230	150 mm Double hinged cabin hook and eye.....	-	-	-	79.40	89.80	95.10	-	-	3.00	6.70	16.60	09230
09231	Eye for cabin hook.....	-	10.90	-	16.10	24.90	29.00	-	-	0.80	1.80	4.40	09231
09232	75 mm Hasp and staple.....	-	13.00	-	-	-	-	-	-	2.00	3.40	8.40	09232
09233	100 mm Ditto.....	-	13.60	-	-	-	-	-	-	2.00	3.40	8.40	09233
09234	150 mm Ditto.....	-	16.60	-	-	-	-	-	-	2.40	4.10	10.10	09234
09235	75 mm Solid drawn flat bar type hasp and staple.....	-	15.60	-	22.80	-	-	-	-	2.00	3.40	8.40	09235
09236	100 mm Ditto.....	-	16.20	-	-	-	-	-	-	2.00	3.40	8.40	09236
09237	150 mm Ditto.....	-	19.20	-	-	-	-	-	-	2.40	4.10	10.10	09237
09238	450 mm Hinged swing locking bar with pivot and plate, two hook plates and staple plate.....	-	-	-	136.00	-	-	-	-	7.90	13.50	33.70	09238
09239	600 mm Ditto.....	-	-	-	208.40	-	-	-	181.80	10.50	17.90	44.70	09239
09240	900 mm Ditto.....	-	-	-	251.00	-	-	-	216.60	10.90	18.60	46.40	09240
09241	225 x 75 mm Letter plate with spring flap.....	-	-	-	-	125.20	135.40	-	84.50	3.00	5.10	12.60	09241
09242	Ditto with knock handle.....	-	-	-	-	131.30	145.70	-	89.20	3.00	5.10	12.60	09242
09243	Door chain complete with slider and 100 x 40 mm plate.....	-	20.50	-	26.90	28.90	33.00	-	22.90	3.00	6.70	16.60	09243
09244	Ditto but with 150 x 40 mm plate.....	-	21.80	-	28.90	31.00	35.00	-	24.40	3.00	6.70	16.60	09244
09245	Slide or upright single pulley (screw or frame and plate) with wheel n.e. 25 mm diameter.....	-	-	19.80	31.00	-	-	-	-	1.50	2.50	6.40	09245
09246	Ditto with wheel 25 - 50 mm diameter.....	-	-	24.20	37.40	-	-	-	-	1.60	2.70	6.70	09246

Item **FITTINGS FOR DOOR AND CUPBOARD (CONT'D)**

Item

	Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only		
	Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium					Stainless steel
	A \$	B \$	C \$	D \$	E \$	F \$	G \$					H \$
Each												
09247	Slide or upright double pulley (screw or frame and plate) with wheel n.e. 25 mm diameter.....											09247
09248	Ditto with wheel 25 - 50 mm diameter.....											09248
09249	Ash tray in any size, surface mounted.....											09249
09250	Litter bin, 250 x 250 x 350 mm high, surface mounted											09250
09251	Ditto, 400 x 400 x 550 mm high, surface mounted.....											09251

								Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
								A \$	B \$	C \$	D \$	
Each												
09252	Chromium plated brass or copper stud pin with socket for shelves.....							7.30	0.70	0.30	1.10	09252
	Per pair											
09253	Set of plastic or enamel coated metal drawer slider 300 mm long.....							56.10	1.60	3.60	8.90	09253
09254	Add to Item 09253 for each additional 50 mm long or part thereof in length.....							3.60	0.20	0.50	1.10	09254

IRONMONGERY

09247 - 09254

09/19

Item **TOILET FITTINGS, ETC.**

Item

09255 - 09267

IRONMONGERY

Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only
B.M.A.	Plated brass	Aluminium	Stainless steel			
A	B	C	D	E	F	G
\$	\$	\$	\$	\$	\$	\$
26.80	31.10	17.70	20.20	0.70	1.40	3.70
35.30	39.50	21.90	25.70	0.70	1.40	3.70

Per linear metre

09255	20 mm Diameter curtain or hanging rail.....	26.80	31.10	17.70	20.20	0.70	1.40	3.70	09255
09256	25 mm Diameter ditto.....	35.30	39.50	21.90	25.70	0.70	1.40	3.70	09256

Supply and fix								Take down and clear away	Take down and set aside for re-use	Fix only
Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium	Stainless steel			
A	B	C	D	E	F	G	H	I	J	K
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
-	-	-	16.90	-	21.00	-	-	1.20	2.70	6.70
-	-	-	18.90	-	23.00	-	-	1.20	2.70	6.70
7.80	-	-	9.00	-	9.60	-	-	1.20	2.70	6.50
-	-	-	100.70	-	110.90	-	-	3.40	7.50	18.90
-	-	-	124.70	-	145.10	-	-	3.40	7.50	18.90
-	-	-	88.20	-	98.50	-	-	3.00	6.70	16.60
-	-	-	118.90	-	129.20	-	-	3.00	6.70	16.60
-	-	-	170.10	-	180.30	-	-	3.00	6.70	16.60
-	-	-	58.20	-	68.40	-	-	2.00	4.40	11.10
-	-	-	62.30	-	72.50	-	-	2.00	4.40	11.10
-	-	-	83.60	-	87.70	-	-	4.00	8.90	22.20

Each

09257	Flange plate for 20 mm diameter rail.....	-	-	-	16.90	-	21.00	-	-	1.20	2.70	6.70	09257
09258	Ditto but for 25 mm diameter rail	-	-	-	18.90	-	23.00	-	-	1.20	2.70	6.70	09258
09259	Shower curtain ring.....	7.80	-	-	9.00	-	9.60	-	-	1.20	2.70	6.50	09259
09260	Toilet roll holder (Heavy pattern)	-	-	-	100.70	-	110.90	-	-	3.40	7.50	18.90	09260
09261	Locking type ditto	-	-	-	124.70	-	145.10	-	-	3.40	7.50	18.90	09261
09262	450 mm Towel rail with pair of brackets.....	-	-	-	88.20	-	98.50	-	-	3.00	6.70	16.60	09262
09263	600 mm Ditto.....	-	-	-	118.90	-	129.20	-	-	3.00	6.70	16.60	09263
09264	900 mm Ditto.....	-	-	-	170.10	-	180.30	-	-	3.00	6.70	16.60	09264
09265	Tumbler holder	-	-	-	58.20	-	68.40	-	-	2.00	4.40	11.10	09265
09266	Tumbler and tooth brush holder.....	-	-	-	62.30	-	72.50	-	-	2.00	4.40	11.10	09266
09267	Pair of brackets for 125 mm glass shelves.....	-	-	-	83.60	-	87.70	-	-	4.00	8.90	22.20	09267

Item **TOILET FITTINGS, ETC. (CONT'D)**

Item

	Supply and fix							Take down and clear away	Take down and set aside for re-use	Fix only			
	Plastic	Steel	Galvanized	Brass	B.M.A.	Plated brass	Aluminium					Stainless steel	
	A	B	C	D	E	F	G					H	I
<i>Each</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
09268	Guard rail for 525 x 125 mm glass shelves.....	-	-	-	34.00	-	40.20	-	-	0.60	1.30	3.30	09268
09269	Washing cream dispenser with white enamelled brackets, etc., and plastic soap container.....	-	-	-	259.50	-	271.90	-	-	2.00	4.40	11.10	09269
09270	Soap holder.....	-	-	-	-	-	-	-	126.90	1.60	3.60	8.90	09270
09271	Proprietary multi-roll toilet tissue dispenser box in plastic.....	211.40	-	-	-	-	-	-	-	4.00	9.00	22.60	09271
09272	Proprietary multi-roll toilet tissue dispenser box in stainless steel.....	-	-	-	-	-	-	-	503.30	4.00	9.00	22.60	09272

		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
<i>Each</i>						
09273	Proprietary surface mounted stainless steel liquid soap dispenser.....	375.10	2.00	4.40	11.10	09273
09274	Proprietary all purpose lav-basin soap dispenser, 100 mm spout length.....	206.70	2.00	4.40	11.10	09274
09275	Proprietary 75.7 litre towel disposal, 400 x 555 x 300 mm surface mounted.....	734.00	4.00	8.90	22.20	09275
09276	Proprietary 7.6 litre towel disposal, 275 x 230 x 110 mm surface mounted.....	280.30	4.00	8.90	22.20	09276
09277	Proprietary 59 litre corner towel disposal, 380 x 585 x 370 mm surface mounted.....	1,019.80	4.00	8.90	22.20	09277
09278	Proprietary surface mounted feminine napkin disposal, size 190 x 255 x 95 mm.....	212.20	3.00	6.70	16.60	09278
09279	Proprietary stainless steel single surface mounted toilet paper holder.....	95.40	3.00	6.70	16.60	09279
09280	"ASI" 3110P-01-24, stainless steel grab bar non-slip surface, 600 mm long x 32 mm diameter, concealed mounting.....	420.70	4.00	8.90	22.20	09280

IRONMONGERY

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Item **TOILET FITTINGS, ETC. (CONT'D)**

Item

	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	A \$	B \$	C \$	D \$	
<i>Each</i>					
09281 "ATA" 8011-SU-750 700 x 32 mm stainless steel swing up grab bar.....	568.90	4.60	10.20	25.50	09281
09282 Set of "Cesome" BV-2 Bi-fold shower door 850 x 1780 mm overall size.....	1,112.20	15.90	35.50	88.70	09282
09283 "Twyfords" grab rail, 600 mm long model : AV6802.....	655.60	4.00	8.90	22.20	09283
09284 Ditto but hinged support rail model : AV6811.....	2,344.90	4.00	8.90	22.20	09284
09285 "TOTO" grab bar for urinal model : T112CUL.....	2,387.10	4.00	8.90	22.20	09285
09286 Proprietary lift-up safety hinged support with 36mm diameter x 3mm thick nylon tube reinforced with full-length anticorrosive aluminium core, 600 mm long model : 445/T.....	1,280.00	4.00	8.90	22.20	09286
09287 Ditto but wall support, 600 mm long model : 440/A.....	412.70	4.00	8.90	22.20	09287
BABY CHANGING STATION					
Proprietary baby changing station including all necessary accessories in accordance with the manufacturer's recommendations : -					
<i>Per set</i>					
09288 "Koala" baby changing station horizontal or vertical fixing.....	2,684.50	19.80	44.40	110.90	09288
09289 "Bobrick" baby changing station in horizontal or vertical fixing.....	2,436.10	19.80	44.40	110.90	09289

09281 - 09289

IRONMONGERY

Item	FIBRE TRACK, SLIDERS, ETC., FOR SMALL CUPBOARD AND GLASS SLIDING DOORS				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Per linear metre</i>					
09290	13 x 4 mm "Grooving-in" type track including cutting groove.....	32.30	2.80	6.20	15.50	09290
09291	14 x 6 mm Ditto.....	35.60	2.80	6.20	15.50	09291
09292	11 x 6 mm "T" shaped track for surface fixing.....	28.90	2.00	4.40	11.10	09292
09293	13 x 8 mm Ditto.....	30.00	2.00	4.40	11.10	09293
09294	13 x 16 mm Single top channel including cutting groove if required.....	72.30	3.80	8.40	21.10	09294
09295	13 x 10 mm Single bottom channel ditto.....	71.20	3.80	8.40	21.10	09295
09296	22 x 16 mm Double top channel ditto.....	77.90	4.00	8.90	22.20	09296
09297	22 x 10 mm Double bottom channel ditto.....	76.80	4.00	8.90	22.20	09297
09298	38 x 16 mm Triple top channel ditto.....	101.30	4.10	9.30	23.30	09298
09299	38 x 10 mm Triple bottom channel ditto.....	100.20	4.10	9.30	23.30	09299
	<i>Each</i>					
09300	46 x 9 x 10 mm Slider.....	6.50	0.60	1.30	3.30	09300
09301	60 x 11 x 13 mm Ditto.....	7.10	0.60	1.30	3.30	09301

Item	SLIDING DOOR GEAR				Item	
	(Note : - The following items are based on Messrs. P C Henderson Limited's equipment but the rates shall apply equally to similar items from any other approved manufacturer.)	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$	
09302	Galvanized steel track (290-2 mm gauge) and fixed in bracket (measured separately).....	136.70	4.30	7.40	18.60	09302
09303	Galvanized steel track (301-2 mm gauge) and fixed in bracket (measured separately).....	189.70	4.30	7.40	18.60	09303
09304	Galvanized steel track (301H-3 mm gauge) and fixed in bracket (measured separately).....	323.30	4.30	7.40	18.60	09304
09305	Add to either of Items 09302 - 09304 for plugging and screwing direct to wall, beam, lintol and the like.....	37.90	8.90	15.20	37.90	09305
09306	Steel channel (89 C) guide and fix in and including groove in wood, wood block floor or edge of door, and any necessary plugging.....	177.10	6.60	11.10	27.80	09306
09307	Brass channel (94 B) guide and ditto.....	419.60	6.60	11.10	27.80	09307
09308	Aluminium alloy channel (94 XB) guide and ditto.....	133.40	6.60	11.10	27.80	09308
09309	Steel channel (89 C) guide and fix in and including cutting or forming groove and mortice in concrete or paved floor, grouting and making good.....	204.00	12.90	21.90	54.80	09309
09310	Deep steel channel (97 C) guide and ditto.....	241.30	12.90	21.90	54.80	09310
	<i>Each</i>					
09311	Aluminium alloy closed or open end track bracket for face fixing (1A/290), screwed to wood or plugged and screwed to wall, beam, lintol and the like.....	106.80	6.00	10.10	25.30	09311
09312	Ditto (1A/301), ditto.....	283.70	9.90	16.90	42.20	09312
09313	Aluminium alloy closed or open end track bracket for face or soffit fixing (9A/290, 3A/290 or 4A/290), screwed to wood or plugged and screwed to wall, beam, lintol and the like.....	119.20	6.80	11.50	28.70	09313
09314	Ditto (9A/301, 3A/301 or 4A/301), ditto.....	231.00	10.30	17.50	43.80	09314
09315	Add to either of Items 09311 - 09314 for fixing with 8 mm rawbolt including drilling hole in concrete, brick, stone or other surface and make good.....	25.70	3.00	5.10	12.60	09315
09316	Ditto but with 12 mm rawbolt.....	35.10	4.00	6.70	16.90	09316
09317	Four wheel hanger and adjustable split sprons (53 K).....	277.00	6.90	11.80	29.50	09317
09318	Ditto (53 A).....	609.10	6.90	11.80	29.50	09318
09319	Two wheel swivel hanger with nylon wheels concealed fixing (21 K).....	489.20	7.10	12.10	30.40	09319
09320	Ditto (21 A).....	646.40	6.90	11.80	29.50	09320
09321	Four wheel swivel hanger with nylon wheels concealed fixing (21 K/4).....	513.40	7.10	12.10	30.40	09321
09322	Ditto (21 A/4).....	730.70	7.10	12.10	30.40	09322
09323	Two wheel swivel end hanger face fixing (63 KX).....	391.80	6.90	11.80	29.50	09323
09324	Ditto (63 X).....	585.00	6.90	11.80	29.50	09324
09325	Two wheel swivel intermediate hanger face fixing (62 KX).....	428.60	9.90	16.90	42.20	09325
09326	Ditto (62 X).....	621.80	9.90	16.90	42.20	09326

Item	SLIDING DOOR GEAR (CONT'D)					Item
	(Note : - The following items are based on Messrs. P C Henderson Limited's equipment but the rates shall apply equally to similar items from any other approved manufacturer.) (cont'd)	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Each</i>	A	B	C	D	
		\$	\$	\$	\$	
09327	Brass roller guide light duty (106 R/94).....	73.90	3.20	5.40	13.50	09327
09328	Ditto face fixed heavy duty (102 ½R/97).....	203.20	3.80	6.40	16.00	09328
09329	Ditto face fixed (105 R/89).....	156.70	3.10	5.30	13.10	09329
09330	Flush fold guide (21 KR/94).....	111.60	5.00	8.40	21.10	09330
09331	Face fixed end fold guide (68/89).....	146.30	3.20	5.40	13.50	09331
09332	Face fixed intermediate fold guide (67 /89).....	215.10	5.10	8.80	21.90	09332
	METAL CURTAIN TRACKS					
	<i>Per linear metre</i>					
09333	Brass curtain track including brackets for top or face fixing at not more than 400 mm centres, all overlap brackets, end stops and thirteen runners per linear metre.....	47.70	1.70	3.90	9.80	09333
09334	Aluminium curtain track including ditto.....	37.90	1.70	3.90	9.80	09334
09335	Brass valance rail including brackets at not more than 400 mm centres and thirteen hooks per linear metre	21.40	1.30	2.80	7.10	09335
09336	Aluminium valance rail including ditto.....	18.00	1.30	2.80	7.10	09336
09337	Approved hospital curtain tracks.....	398.40	2.40	5.30	13.30	09337
	Replacement parts only : -					
	<i>Each</i>					
09338	Bracket only to brass or aluminium curtain track.....	15.80	0.60	1.40	3.60	09338
09339	Double bracket at overlap to ditto.....	19.60	0.70	1.70	4.30	09339
09340	End stop only to ditto.....	4.80	0.20	0.50	1.10	09340
09341	Runner only to ditto including removing and replacing end stop as necessary.....	8.50	0.80	1.80	4.40	09341
09342	Bracket only to brass or aluminium valance rail.....	15.80	0.60	1.40	3.60	09342
09343	Hook only to ditto.....	3.40	0.20	0.50	1.30	09343

Item	CORD OPERATED CURTAIN TRACKS				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per linear metre</i>					
09344	Metal curtain track with baked enamel finish "Kirsch" regular duty rail or other approved including brackets at 900 mm (maximum) centres for top or face fixing, centre overlap and master slides, end brackets and ten sliders per linear metre (pulley set measured separately).....	40.40	1.90	4.40	11.00	09344
09345	Ditto but "Kirsch" double duty rail or other approved.....	41.70	1.90	4.40	11.00	09345
	Replacement parts only : -					
	<i>Each</i>					
09346	Pulley set complete with cords to regular duty rail.....	19.30	0.80	1.80	4.40	09346
09347	Ditto but to double duty rail.....	19.30	0.80	1.80	4.40	09347
09348	Bracket only to regular duty rail.....	5.90	0.60	1.30	3.30	09348
09349	Ditto but to double duty rail.....	6.60	0.60	1.30	3.30	09349
09350	Slider for regular or double duty rail.....	3.50	0.30	0.70	1.70	09350
09351	Master slide to regular duty rail.....	4.50	0.40	0.80	2.00	09351
09352	Ditto but to double duty rail.....	4.50	0.40	0.80	2.00	09352
	MOSQUITOES/FLY SCREENS					
	Mosquitoes or fly screen of approved gauge and mesh size in any colour coating or finish : -					
	<i>Per square metre</i>					
09353	Plastic coated glass fibre mosquitoes or fly screens fixed to wood or metal frames with or without beads (beads measured separately).....	46.50	4.80	10.60	26.60	09353
09354	Brass mosquitoes or fly screens ditto.....	129.70	4.80	10.60	26.60	09354
09355	Aluminium mosquitoes or fly screens ditto.....	110.90	4.80	10.60	26.60	09355
09356	Stainless steel mosquitoes or fly screens ditto.....	206.90	4.80	10.60	26.60	09356
	SUNDRIES					
	<i>Per linear metre</i>					
09357	12.70 mm Wide x 6.40 mm thick plastic foam self-adhesive draught excluder strip fixed to door edge, window edge or similar position.....	8.10	1.00	-	5.50	09357
09358	Plastic foam self adhesive strip size 15 x 3 mm fixed to window or door edge.....	20.80	1.00	-	5.50	09358
09359	Vinyl plastic handrail capping to 50 mm core rail.....	37.50	4.00	8.90	22.20	09359
09360	Rubber speed reduction ramp including end caps and anchor bolts.....	746.20	11.90	20.20	50.60	09360
	<i>Per set</i>					
09361	Proprietary ball bearing slides 483 mm long inset/horizontal type and soft closing mechanism flipper to cupboard door complete with slides, pivoted arms and all necessary fittings and furniture.....	850.90	17.80	30.40	75.90	09361

Item	REPAIRS TO LOCKS, LATCHES AND FURNITURE		Item
	<i>Each</i>	A \$	
09362	Oil only lock or latch complete with furniture or hinge in position including ease and adjust keep or striking plate.....	2.60	09362
09363	Repair lock or latch including providing any new parts required (take down and re-fixing lock measured separately if required).....	31.10	09363
09364	Pick lock.....	16.60	09364
09365	Provide two new keys to lock each complete with chromium plated stamped label and split ring (take down and re-fixing lock measured separately if required).....	19.70	09365
09366	Provide new key to cylinder lock from pattern of old complete with ditto (ditto).....	10.70	09366
09367	Provide and fix grub screw to ball or lever handle.....	4.40	09367
09368	Ditto but including drilling out remains of old or drilling and tapping new hole for the same.....	13.30	09368
09369	Stamp letter or number 3 mm high on key or lock face plate (measured per letter or number).....	0.90	09369
09370	Obliterate old letter or number on key or lock face plate (measured per article).....	1.70	09370
09371	Provide and fix spindle of any length to mortice or rim lock, or latch, including taking off and existing furniture as necessary re-fixing.....	16.60	09371
09372	Provide and fix 25 mm diameter x 1.50 mm plastic disc to key with split ring and engraved with letters or numbers.....	6.80	09372
09373	Provide and fix wrot iron black japanned box staple for rim lock.....	25.10	09373
09374	Provide and fix brass keep for dead lock.....	10.80	09374
09375	Provide and fix brass striking plate for lock or latch.....	10.80	09375

TRANSLUCENT FILM SIGNAGE

Signage comprising graphics, logos, letters, numbers, Chinese characters, full stops, commas, and the like, cut from self adhesive translucent films and fixed on metal, plastic, or glass surfaces :-

	Size (m ²)											
	n.e. 0.10	0.10 - 0.20	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.60 - 0.70	0.70 - 0.80	0.80 - 0.90	0.90 - 1.00	1.00 - 1.50	
	A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$	
09376 Translucent film signage to existing plastic, glass and metal surfaces.....	101.60	138.30	174.90	211.60	248.30	285.00	321.70	358.40	395.00	431.70	550.20	09376

Item	SILKSCREEN SIGNS											Item	
	Silkscreen printed signs comprising graphics, logos, letters, numbers, Chinese characters, full stops, commas, and the like : - <i>Each</i>	Size (m ²)											
		n.e. 0.10	0.10 - 0.20	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.60 - 0.70	0.70 - 0.80	0.80 - 0.90	0.90 - 1.00	1.00 - 1.50	
		A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$	
09377	Silkscreen printing to existing plastic surfaces.....	23.80	44.10	64.50	84.80	105.10	125.50	145.90	166.20	186.60	206.90	308.70	09377
09378	Ditto to existing glass surfaces.....	23.80	44.10	64.50	84.80	105.10	125.50	145.90	166.20	186.60	206.90	308.70	09378
09379	Ditto to existing metal surfaces.....	23.80	44.10	64.50	84.80	105.10	125.50	145.90	166.20	186.60	206.90	308.70	09379
09380	Silkscreen printing with 3 mm thick white or coloured plastic sheet.....	28.80	59.30	89.80	120.20	150.70	181.20	211.60	242.10	272.60	303.10	435.20	09380
09381	Ditto but with 6 mm thick white or coloured plastic sheet.....	33.90	74.60	115.30	156.00	196.70	237.40	278.10	318.80	359.50	400.20	563.00	09381
09382	Ditto but with 10 mm thick white or coloured plastic sheet.....	40.70	95.10	149.40	203.70	258.00	312.40	366.70	421.00	475.30	529.70	733.30	09382
09383	Ditto but with 12.5 mm thick white or coloured plastic sheet.....	44.10	105.30	166.40	227.60	288.70	349.80	411.00	472.10	533.30	594.40	818.50	09383
09384	Silkscreen printing with 1.5 mm thick hairline stainless steel plate.....	37.90	86.50	135.10	183.70	232.40	281.00	329.60	378.20	426.80	475.50	662.00	09384
09385	Ditto but with 3 mm thick hairline stainless steel plate.....	51.80	128.40	205.00	281.50	358.00	434.60	511.20	587.70	664.30	740.80	1,011.20	09385
09386	Ditto but with 1.5 mm thick mirror finished stainless steel plate.....	38.10	87.20	136.40	185.50	234.60	283.80	332.90	382.00	431.20	480.30	668.40	09386
09387	Ditto but with 3 mm thick mirror finished stainless steel plate.....	52.10	129.10	206.20	283.30	360.30	437.40	514.40	591.50	668.50	745.60	1,017.40	09387
09388	Silkscreen printing with 1.5 mm thick aluminium plate.....	29.40	61.10	92.70	124.40	156.10	187.80	219.40	251.10	282.80	314.40	450.20	09388
09389	Ditto but with 3 mm thick aluminium plate.....	35.00	77.80	120.70	163.60	206.40	248.70	292.10	335.50	377.80	420.70	589.90	09389
	PLASTIC SIGNS												
	<i>Per square metre</i>	Thickness (mm)											
		3	4.5	6	8	10	12.5						
		A \$	B \$	C \$	D \$	E \$	F \$						
09390	Clear, white or coloured acrylic sheet.....	91.80	137.70	172.10	238.80	305.60	369.90	09390					
09391	Ditto but with matt finish.....	101.00	151.40	189.30	262.70	336.20	406.80	09391					
09392	Clear, white or coloured acrylic sheet fixed with adhesive as laminated cover or backing sheet.....	97.50	143.40	177.80	238.80	312.50	379.80	09392					
09393	Ditto but with matt finish.....	106.70	157.20	195.00	262.70	343.00	506.60	09393					
	<i>Per linear metre</i>												
09394	Labour cutting acrylic sheet for features, graphics, etc. other than those measured elsewhere.....	4.10	4.30	4.50	4.90	5.70	8.10	09394					

Item **PLASTIC SIGNS (CONT'D)**

Item

		Size (m ²)											
		n.e. 0.10	0.10 - 0.20	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.60 - 0.70	0.70 - 0.80	0.80 - 0.90	0.90 - 1.00	1.00 - 1.50	
<i>Each</i>		A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$	
09395	Engraved plastic sign face complete with letters, numbers, characters, graphics, punctuations and the like, 3 mm thick.....	64.00	128.00	191.90	255.90	319.90	383.90	447.80	511.80	575.80	639.80	959.60	09395
09396	Ditto but 6 mm thick.....	76.50	146.90	223.50	300.00	376.70	453.20	529.90	606.40	682.90	759.60	1,117.20	09396
09397	Plastic sign complete with cut through letters, numbers, characters, graphics, punctuations and the like, 3 mm thick.....	77.40	153.20	229.10	306.50	383.90	461.30	537.10	614.50	690.30	767.70	960.40	09397
09398	Ditto but through 4.50 mm thick sheet	85.30	164.30	248.00	333.30	418.60	502.30	586.10	671.40	755.10	840.40	1,039.40	09398
09399	Ditto but through 6.00 mm thick sheet	91.60	176.90	268.60	360.20	451.80	543.40	636.60	728.20	819.90	911.50	1,116.80	09399
09400	Ditto but through 10.00 mm thick sheet	101.10	194.30	297.00	398.10	499.20	600.30	703.00	804.10	905.10	1,007.80	1,233.70	09400
09401	Ditto but through 12.50 mm thick sheet	112.20	214.80	327.00	439.10	551.30	663.50	775.60	887.80	999.90	1,113.70	1,364.80	09401

Labour and material for plastic signs :-

		Height (mm)															
		15	20	25	30	40	50	75	100	125	150	175	200	250	300	350	
<i>Each</i>		A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$	L \$	M \$	N \$	O \$	
09402	Letter or number cut from 3.00 mm thick sheet and fixed with adhesive	3.30	3.90	4.70	5.70	7.60	9.50	14.20	19.00	23.70	28.40	33.20	37.90	47.40	56.90	66.30	09402
09403	Ditto but from 4.50 mm thick sheet ditto	5.10	6.30	7.10	8.50	11.40	14.20	21.30	28.40	35.50	42.70	49.80	56.90	71.10	85.30	99.50	09403
09404	Ditto but from 6.00 mm thick sheet ditto.....	-	-	9.50	11.40	15.20	19.00	28.40	37.90	47.40	56.90	66.30	75.80	94.80	113.70	132.70	09404
09405	Ditto but from 10.00 mm thick sheet ditto	-	-	-	-	-	31.60	47.40	63.20	79.00	94.80	110.60	126.40	158.00	189.60	221.20	09405
09406	Ditto but from 12.50 mm thick sheet ditto	-	-	-	-	-	-	79.00	98.70	118.50	138.20	158.00	197.50	237.00	276.50		09406
09407	Chinese character cut from 3.00 mm thick sheet and fixed with adhesive	5.80	7.10	8.10	9.50	12.60	15.80	23.70	31.60	39.50	47.40	55.30	63.20	79.00	94.80	110.60	09407
09408	Ditto but from 4.50 mm thick sheet ditto	8.70	10.30	12.00	14.20	19.00	23.70	35.50	47.40	59.20	71.10	82.90	94.80	118.50	142.20	165.90	09408
09409	Ditto but from 6.00 mm thick sheet ditto.....	-	-	16.10	19.40	25.90	32.40	48.70	64.80	81.00	97.20	113.40	129.50	161.90	194.30	226.70	09409

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Item **PLASTIC SIGNS (CONT'D)**

Item

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Labour and material for plastic sign : - (cont'd)

Height (mm)																	
15	20	25	30	40	50	75	100	125	150	175	200	250	300	350			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
09410	Chinese character cut from 10.00 mm thick sheet and fixed with adhesive	-	-	-	-	-	53.70	80.60	107.40	134.30	161.10	188.00	214.80	268.60	322.30	376.00	09410
09411	Ditto but from 12.50 mm thick sheet ditto	-	-	-	-	-	-	-	134.30	167.90	201.40	235.10	268.60	335.70	402.80	470.00	09411

Labour and material for plastic signs :-

Height (mm)								
500	600	700	800	900	1000			
A	B	C	D	E	F			
\$	\$	\$	\$	\$	\$			
09412	Letter or number cut from 8 mm thick plastic sheet with studs.....	511.80	614.20	716.50	818.90	921.30	1,023.60	09412
09413	Ditto but from 10 mm thick sheet.....	540.30	648.30	756.30	864.40	972.40	1,080.50	09413
09414	Ditto but from 12.5 mm thick sheet.....	568.70	682.40	796.20	909.90	1,023.60	1,137.40	09414
09415	Chinese characters cut from 8 mm thick plastic sheet with studs.....	654.00	784.80	915.60	1,046.40	1,177.20	1,308.00	09415
09416	Ditto but from 10 mm thick sheet.....	682.40	818.90	955.40	1,091.90	1,228.40	1,364.80	09416
09417	Ditto but from 12.5 mm thick sheet.....	710.90	853.00	995.20	1,137.40	1,279.50	1,421.70	09417

Each

Size (m ²)													
n.e.	0.10 - 0.10	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.60 - 0.70	0.70 - 0.80	0.80 - 0.90	0.90 - 1.00	1.00 - 1.50			
A	B	C	D	E	F	G	H	I	J	K			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
09418	Take down and clear away plastic sheet sign from any position.....	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	09418
09419	Take down and set aside for re-use ditto.....	2.20	3.30	4.40	5.50	6.70	7.80	8.90	10.00	11.10	12.20	13.30	09419
09420	Fix only ditto.....	5.50	8.30	11.10	13.90	16.60	19.40	22.20	24.90	27.70	30.50	33.30	09420

09421	Take down and clear away letters, numbers or Chinese characters of any size cut from plastic sheet from any position.....	A	\$	2.00	09421
09422	Take down and set aside for re-use ditto.....			4.40	09422
09423	Fix only ditto			11.10	09423

Item **METAL SIGNS**

Item

Labour and material for metal signs : -

		Height (mm)															
		15	20	25	30	40	50	75	100	125	150	175	200	250	300	350	
<i>Each</i>		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
09424	Letter or number cut from 3.00 mm thick anodized aluminium sheet fixed with adhesive or screws	19.00	25.30	31.60	37.90	50.60	63.20	94.80	126.40	158.00	189.60	221.20	252.80	315.90	379.10	442.30	09424
09425	Ditto but from 6.00 mm thick sheet ditto	-	-	39.50	47.40	63.20	79.00	118.50	158.00	197.50	237.00	276.50	315.90	394.90	473.90	552.90	09425
09426	Chinese character cut from 3.00 mm thick anodized aluminium sheet fixed with adhesive or screws	23.70	31.60	39.50	47.40	63.20	79.00	118.50	158.00	197.50	237.00	276.50	315.90	394.90	473.90	552.90	09426
09427	Ditto but from 6.00 mm thick sheet ditto	28.40	37.90	47.40	56.90	75.80	94.80	142.20	189.60	237.00	284.40	331.70	379.10	473.90	568.70	663.50	09427
09428	Letter or number cut from 3.00 mm thick brass sheet fixed with adhesive or screws	28.40	37.90	47.40	56.90	75.80	94.80	142.20	189.60	237.00	284.40	331.70	379.10	473.90	568.70	663.50	09428
09429	Ditto but from 6.00 mm thick sheet ditto.....	-	-	59.20	71.10	94.80	118.50	177.70	237.00	296.20	355.40	414.70	473.90	592.40	710.90	829.30	09429
09430	Chinese character cut from 3.00 mm thick brass sheet fixed with adhesive or screws	36.30	47.40	59.20	71.10	94.80	118.50	177.70	237.00	296.20	355.40	414.70	473.90	592.40	710.90	829.30	09430
09431	Ditto but from 6.00 mm thick sheet ditto	42.70	56.90	71.10	85.30	113.70	142.20	213.30	284.40	355.40	426.50	497.60	568.70	710.90	853.00	995.20	09431

Labour and material for metal signs : -

		Height (mm)						
		500	600	700	800	900	1000	
<i>Each</i>		A	B	C	D	E	F	
		\$	\$	\$	\$	\$	\$	
09432	Letter or number cut from 8 mm thick aluminium sheet with studs including baked paint finish and screws.....	821.40	985.70	1,150.00	1,314.30	1,478.60	1,642.90	09432
09433	Ditto but from 10 mm thick sheet.....	884.60	1,061.50	1,238.50	1,415.40	1,592.30	1,769.20	09433
09434	Ditto but from 12 mm thick sheet.....	947.80	1,137.40	1,326.90	1,516.50	1,706.00	1,895.60	09434
09435	Chinese characters cut from 8 mm thick aluminium sheet with studs including baked paint finish and screws.....	979.40	1,175.30	1,371.20	1,567.00	1,762.90	1,958.80	09435
09436	Ditto but from 10 mm thick sheet.....	1,042.60	1,251.10	1,459.60	1,668.10	1,876.60	2,085.20	09436
09437	Ditto but from 12 mm thick sheet.....	1,105.80	1,326.90	1,548.10	1,769.20	1,990.40	2,211.50	09437

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Item METAL SIGNS (CONT'D)

Size (m ²)										
n.e. 0.10	0.10 - 0.20	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.60 - 0.70	0.70 - 0.80	0.80 - 0.90	0.90 - 1.00	1.00 - 1.50
A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$
69.40	147.40	225.40	303.40	381.30	459.30	537.40	615.40	693.30	771.30	1,096.50
1.30	1.80	2.30	2.80	3.30	3.80	4.30	4.80	5.30	5.80	6.30
2.20	3.00	3.90	4.70	5.60	6.40	7.30	8.10	8.90	9.80	10.60
5.50	7.60	9.70	11.80	13.90	16.00	18.10	20.20	22.30	24.40	26.60

Each

09438	Acid etched stainless steel sign face, 1.5 mm thick.....	09438
09439	Take down and clear away metal signs from any position.....	09439
09440	Take down and set aside for re-use ditto.....	09440
09441	Fix only ditto.....	09441

Each

09442	Take down and clear away letters, numbers or Chinese characters of any size cut from metal sheet from any position.....	A \$ 5.00	09442
09443	Take down and set aside for re-use ditto.....	8.40	09443
09444	Fix only ditto.....	21.10	09444

FLAGPOLES

Proprietary aluminium flagpoles systems complete with all necessary accessories in accordance with the manufacturer's recommendations :-

Each

	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only		
	A \$	B \$	C \$	D \$		
09445	14 metre height aluminium flagpole ground anchored (concrete footing measured separately).....	41,010.50	34.00	126.40	758.60	09445
09446	Ditto but 12 metre height.....	31,390.80	30.90	101.20	674.30	09446
09447	Ditto but 9 metre height.....	22,783.60	27.80	84.30	590.00	09447
09448	7 Metre height aluminium flagpole wall mounted including fixing brackets and stainless steel anchor bolts.....	19,688.00	24.80	65.60	458.90	09448
09449	Ditto but 6 metre height.....	18,480.10	21.70	59.00	421.50	09449

Replacement parts only :-

Each

09450	Internal halyard, pulleys. etc. for 12 metre height aluminium flagpole including taking down and clear away existing.....	3,189.70	5.60	21.10	126.40	09450
09451	Ditto but for 9 metre height flagpoles.....	2,835.30	5.00	19.40	105.40	09451
09452	External halyard, pulleys. etc. for 6 or 7 metre height flagpoles.....	2,632.80	4.30	16.90	84.30	09452

Item **PROJECTOR SCREEN**

Proprietary projection screen including all necessary accessories in accordance with the manufacturer's recommendations : -

Each

Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only
A \$	B \$	C \$	D \$
2,470.90	55.80	55.40	110.90
10,505.80	98.10	97.80	251.00

09453 Projector Screen, manually operated size : 1 780 x 1780 mm..... 09453

09454 Projector Screen, electrically operated size : 1 600 x 2 130 mm..... 09454

TRAFFIC BARRIER SYSTEM

Note :- (i) Traffic barrier system shall be installed complete with all fittings, accessories, anchorages, supports, etc. and testing all in accordance with the manufacturer's recommendations.

(ii) Provide all shop drawings and manufacturer's guarantee.

(iii) Provide connection point for power supply (power supply to be executed by Electrical Contractor).

Proprietary traffic barrier system : -

Per set

3 m straight gate arm	4.5 m straight gate arm	6 m straight gate arm
A \$	B \$	C \$
24,401.30	24,888.60	25,272.10
137.60	146.10	166.90
211.10	232.20	253.30
464.40	485.50	506.50

09455 Supply and fix traffic barrier system complete with gate arm and ON/OFF push button..... 09455

09456 Take down and clear away traffic barrier system..... 09456

09457 Take down and set aside for re-use ditto..... 09457

09458 Fix only ditto..... 09458

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09453 - 09458

Item **HOLLOW METAL SIGNS**

Labour and material for metal signs:-

Height (mm)													
500	600	700	800	900	1000	1100	1200	1300	1400	1500			
A	B	C	D	E	F	G	H	I	J	K			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
09459	Letter or number cut from stainless steel sheet not less than 1.2 mm thick with covered edge, fixed at any height including all necessary fixing accessories.....	393.80	472.50	551.30	630.00	708.80	787.50	866.30	945.00	1,023.80	1,102.50	1,181.30	09459
09460	Ditto but chinese character	492.20	590.60	689.10	787.50	886.00	984.40	1,082.80	1,181.30	1,279.70	1,378.20	1,476.60	09460
09461	Letter or number cut from anodized aluminium sheet not less than 2 mm thick with covered edge, fixed at any height including all necessary fixing accessories.....	344.50	413.50	482.40	551.30	620.20	689.10	758.00	826.90	895.80	964.70	1,033.60	09461
09462	Ditto but chinese character	430.70	516.80	603.00	689.10	775.20	861.40	947.50	1,033.60	1,119.80	1,205.90	1,292.00	09462

Size (m ²)													
n.e.	0.25 - 0.25	0.50 - 0.75	0.75 - 1.00	1.00 - 1.50	1.50 - 2.00	2.00 - 2.50	2.50 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00			
A	B	C	D	E	F	G	H	I	J	K			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
09463	Logo or signage cut from stainless steel sheet not less than 1.2 mm thick with covered edge, including moulding, graphic finish, fixed at any height and all necessary fixing accessories.....	1,464.30	2,067.20	2,670.20	3,273.10	3,876.10	4,479.00	5,082.00	5,684.90	6,374.00	7,149.20	7,924.40	09463
09464	Ditto but cut from anodized aluminium sheet not less than 2mm thick.....	1,255.10	1,771.90	2,288.70	2,805.50	3,322.40	3,839.20	4,356.00	4,872.80	5,463.40	6,127.90	6,792.40	09464

Add to items 09459 to 09464 inclusive for the supply of powder coated and baked paint finish.....

20%

Section 10

STEEL AND METAL WORK

STEEL AND METAL WORK

SPECIAL CONDITIONS

Measurement of hoardings, and walkways

- I. Throughout this Schedule, rates for all trades shall include for all temporary preventive and protective measures necessary for the execution of the work, such as to protect new work or existing surfaces, and to protect the public from harm, dust or nuisance. No payment will be made for hoardings and walkways under any circumstances, with the following exceptions : -
- (a) Hoardings and walkways are specifically ordered by the Maintenance Surveyor in writing and stating that the hoarding and walkways are for the exclusive use of the Employer and other contractor employed by the Employer within the Works Order period.

In the event that the hoardings and walkways mentioned in sub-clause (a) above are subsequently used as preventive and protective measures by the Contractor himself, no payment will be made.

The hoardings and walkways shall be measured the length on plan as fixed.

No measurement or adjustment shall be made for concrete footings or anchor bolts.

Measurement of temporary work - Fire protection enclosure materials

- II. Throughout this Schedule, rates for all trades shall include for all temporary preventive and protective measures necessary for the execution of the work such as to protect new work or existing surfaces, and to protect the public from harm, dust or nuisance. No payment will be made for such work except additional requirement of fire protection enclosure materials are specifically ordered by the Maintenance Surveyor in writing.

Measurement of steel shoring

- III. Steel strutting, shoring, supporting and protective measures for the face of excavation have been allowed in the rates of Section 01 - Excavation in this Schedule. No payment will be made for these measures under any circumstance, with the following exceptions : -
- (a) Steel strutting, shoring, bracings, supporting and the like in respect of the steel sheet piling. Steel sheet piling must be specifically ordered by the Maintenance Surveyor in writing.

Steel sections shall be measured the total weight as fixed. No deduction shall be made for bolt holes, splays, notches and the like. The weight of the bolts and nuts shall be added.

Measurement by weight

- IV. Structural steel work and metal work shall normally be measured by weight and shall be calculated in the following order of preference : -
- (1) Measurements of the structural steel sections and metal sections and reference to
- (a) Tables in Memoranda in this Schedule.
- (b) Tables in British Standards or similar documents.
- (c) Tables in manufacturer's catalogues or similar documents.
- (d) Unit weights calculated from the mass per cubic metre given in Memoranda in this Schedule.
- or
- (2) Weighed by the Contractor in the presence of the Maintenance Surveyor before fixing, and in default of this, shall be taken out, weighed and re-fixed by the Contractor at his own expense.

Measurement of structural steel work

- V. Structural steel work shall be paid only when it is specifically ordered by the Maintenance Surveyor in writing. Surface protection to structural steel shall be measured separately in Section 15 - Painting of this Schedule.

SPECIAL CONDITIONS (CONT'D)

VI.	<p>Metal sections shall be measured the length as fixed with square ends and the weight calculated.</p> <p>No deduction shall be made for rivet, screw and bolt holes, and notches or slots.</p>	Measurement of metal sections
VII.	<p>Mild steel (plain or galvanized) plate, when exceeding 300 mm wide and not exceeding 3 mm thick shall be measured as sheet metal. When exceeding 3 mm thick, the same shall be measured as "flat bar" or "plate".</p>	Measurement of sheet, flat bar or plate
VIII.	<p>Sheet metal work shall be measured the area as fixed and the weight calculated. No deduction shall be made for openings not exceeding 0.50 m². No addition shall be made for rivets, screws, nuts, bolts and the like.</p> <p>Perforated sheet metal work shall be measured the area as fixed and the weight calculated. No deduction shall be made for openings not exceeding 0.50 m² or perforations of the manufactured sheet.</p> <p>Sheet or perforated sheet metal work shall include all sheet metal formed in any shape, pattern, graphics, etc. and the like.</p>	Measurement of sheet metal
IX.	<p>Collapsible gate shall be measured the net weight calculated. No deduction shall be made for bolt holes, splays, notches and the like. The weight of bolts, nuts, rivets, spacers, fixing lugs and the like, except ironmongeries, shall be added.</p>	Measurement of collapsible gate
X.	<p>Items throughout the Steel and Metal Work Section include generally for all sundry labours, welding and hexagonal headed steel bolt. Items of sundry repairs will not be measured except in special circumstances where :-</p> <p>(a) The material on which the labour, welding or hexagonal headed steel bolting is required to be executed, is not itself being paid for; or the payment of fixing of that material.</p> <p>(b) Labour, welding or hexagonal headed steel bolting is required to be executed to existing material in position.</p>	Measurement of sundry repairs
XI.	<p>Corrugated and profiled sheet cladding (other than corrugated or profiled steel sheet roofing under Section 05 - Roofing of this Schedule) shall be measured flat (not girth on corrugations or profiles) over the net area covered with no allowance for laps. No deduction shall be made for openings not exceeding 0.50 m². Cladding to a radius not exceeding 15.00 m along the corrugation or profile shall be measured as "curved work".</p> <p>All purlins and sub-frame shall be measured separately.</p>	Measurement of corrugated and profiled sheet cladding
XII.	<p>Shutters shall be measured net area of the structural opening of the shutter as fixed irrespective of the position of the hood.</p> <p>"Extra over" for wicket door shall be measured the overall size of door.</p>	Measurement of shutters
XIII.	<p>"Take down and set aside for re-use" of existing shutters for repairs shall generally be measured as net affected area.</p> <p>The affected area means the damaged area including the individual module of each affected slat or panel.</p>	Measurement of "Take down and set aside for re-use" shutters for repairs
XIV.	<p>Cast iron, brass, copper, and gunmetal articles shall be measured the net weight as cast and finished ready for fixing.</p>	Measurement of cast iron, brass copper and gunmetal

SPECIAL CONDITIONS (CONT'D)

Measurement of metal windows and doors generally	<p>XV. Metal windows and doors shall generally be measured net area of the structural opening of the windows and doors as fixed.</p> <p>“Extra over” for opening sashes or doors shall be measured the overall size of the opening sashes or doors.</p> <p>Glazing to metal windows and doors shall be measured separately in Section 14 - Glazing of this Schedule.</p>
Measurement of “Take down and clear away” or “Take down and set aside for re-use” metal window or door	<p>XVI. “Take down and clear away” or “Take down and set aside for re-use” of existing window and door shall generally be measured net area of the structural opening of the window and door as fixed. No separate measurement will be made for openable sash, ironmongery, fixing lugs, dowels, etc. and the like.</p>
Measurement of galvanised steel works	<p>XVII. Measurement of galvanised mild steel works shall include all processes of galvanising in accordance with G.S. Items 15.39 and 17.02 for all raw materials and factory manufactured products.</p>
Measurement of galvanizing, electro-plating and chromium plating	<p>XVIII. Galvanizing, electro-plating and chromium shall be measured when the work has been fabricated on Site or off Site with further processing on Site required and is specifically ordered by the Maintenance Surveyor in writing. No payment will be made for proprietary or factory manufactured products.</p>
Measurement of “Zinc sprayed” or “Hot dipped” galvanised	<p>XIX. “Zinc sprayed” or “hot dipped” galvanising shall only be measured when the mild steel work has been fabricated (not factory manufactured products) and it is specifically ordered in writing by the Maintenance Surveyor.</p>
Measurement of solid/composite aluminium wall cladding	<p>XX. Solid/composite aluminium wall cladding shall be measured net on the area to be cladded. No deduction shall be made for opening not exceeding 0.50 m². No measurement for additional materials required for bending, rolling edges, returns, etc. and the like shall be made.</p>
Measurement of curtain walls	<p>XXI. Curtain walls shall be measured plan area of the curtain wall as fixed. No deduction shall be made for opening not exceeding 0.50 m².</p>
Measurement of slotted angle, tubing and wire rope	<p>XXII. Slotted angle, galvanized steel tubing and wire rope shall be measured the net length as fixed.</p>
Measurement of Proprietary fire resisting partitions	<p>XXIII. Proprietary fire resisting partitions shall generally be measured the net area covered. No deduction shall be made for openings not exceeding 0.50 m². Finishes to the partition shall be measured separately.</p>

SPECIAL CONDITIONS (CONT'D)

- XXIV. Wire netting, wire mesh, welded wire mesh, expanded metal and chain link shall be measured the net area covered with no allowance for laps. No deduction shall be made for openings not exceeding 0.50 m².
- Irregular areas shall be measured the smallest square or rectangle size from which they can be cut.
- Various meshes sizes shall be measured in accordance with the British Standard unless otherwise specified.
- Measurement of wire netting, wire mesh, welded wire mesh, expanded metal and chain link**
- XXV. The rates shall generally include for any or all of the following as applicable : -
- Rates generally**
- (a) All straight, raking or circular cutting and waste.
 - (b) Lowering or hoisting to any depth or height and supporting, fitting and fixing various items to new or existing work in any position including the provision of all temporary supports and fastening, and grouting as required.
 - (c) All fabrication, assembling and erection work including riveting, drilling, welding, brazing, either off Site or on Site as required.
 - (d) Providing throughout all ancillary materials for jointing and fixing, such as welding rods, solders, screws and the like.
 - (e) Executing all work to true detail, filing all edges, welds, etc., smoothing, filing off burrs around drilled holes, countersinking all screws, rivet heads and the like when required and finishing work to the satisfaction of the Maintenance Surveyor.
 - (f) Drilling and tapping holes, mortices and the like.
 - (g) Preparing new or existing surface for connection.
 - (h) Allowance for rolling margin.
 - (i) Building in, grouting and bedding, casting in and the application of bonding agents, fillers and sealing materials.
 - (j) Sampling and testing of materials including submission of records.
 - (k) In the case of structural steel, sampling and testing of materials shall further include all necessary security handling of samples, stock management on Site and removal of non-compliant steel sections.
 - (l) Allowance for laps or seams.
 - (m) Providing of prototypes as G.S. Item 17.14.
 - (n) Protecting decorative finishes to metalwork.
 - (o) Allowing all provisions of suitable connection point for equipotential bonding as required by the I.E.E. Wiring Regulations.
- XXVI. The rates for hoardings and walkways shall include for : -
- Rates for hoardings and walkways**
- (a) Delivering to and erecting on Site, repairing and maintaining throughout the period of use in first or subsequent positions, and taking down and setting aside for re-erection or clearing away.
 - (b) Providing all materials including poles, struts, wedges, plates, sheeting, bolts and the like.
 - (c) Preparing and applying or touching up paint to all surfaces including writings and logos in single or multi-colour paints.

SPECIAL CONDITIONS (CONT'D)

**Rates for
hoardings and
walkways
(cont'd)**

- XXVI. (d) Providing and fixing anchor bolts, nuts and washers.
- (e) Provision of concrete footing including associated earthwork, formwork and reinforcement, if required.
- (f) Providing adequate lightings and warning lights, associated power supply and electrical work and payment of all charges incurred.
- (g) Making good any damage caused to pavings and other surfaces during use, erection and taking down.
- (h) Payment for resurfacing of the pavings, roads, drainage system or any other utilities in the event that making good is not allowed to be executed by the Contractor.

**Rates for
temporary work -
Fire protection
enclosure
materials**

- XXVII. The rates for temporary work - fire protection enclosure materials shall include for : -
- (a) Working at any level, floor and locations.
- (b) All steel sections adequate for the fire rated period.
- (c) Finishing all fire protective boarding, metal plates, steel sections, etc. and the like with intumescent paint, painting and colour coating.
- (d) All concrete footing, base plate and anchor bolts including nuts and washers.
- (e) Delivering to and erecting on Site, adjusting and maintaining throughout the period of uses, and taking down and setting aside for re-use or removal from Site.
- (f) Providing and forming temporary access door , ironmongeries and door seals.
- (h) Providing, maintaining and clear away after use adequate lighting and warning lights, associated power supply and electrical work and payment of all charges incurred.
- (i) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
- (j) Sealing around edges with intumescent materials.
- (k) Grouting into new or existing mortice or holes.
- (l) Protecting and making good disturbed surfaces.
- (m) Providing test certificate.

**Rates for steel
shoring**

- XXVIII. The rates for steel shoring shall further include for : -
- (a) Working at any depth, height and locations.
- (b) All steel sections such as round bars, squares, flats, plates, angles, tees, channels, "I" joists, hollow sections and the like.
- (c) All anchor bolts and high friction grip bolts including nuts and washers.
- (d) Any wedges as required.
- (e) Delivering to and erecting on Site, adjusting and maintaining throughout the period of uses, and taking down and setting aside for re-use or removal from Site.
- (f) Design and calculation of lateral support including details of connections of wallings, strutting, shoring, bracing, posts and splicing of members and sequence of construction and sequence of subsequent removal by registered structural engineer.
- (g) Preparing and submitting method statement.

SPECIAL CONDITIONS (CONT'D)

XXVIII.	<ul style="list-style-type: none"> (h) Cleaning the interface of members to be jointed. (i) Carrying out welding as G.S. Items 15.22 to 15.35. (j) Grouting to joints as required. (k) Protecting and making good existing surfaces disturbed. 	Rates for steel shoring (cont'd)
XXIX.	<p>The rates for structural steel works shall further include for : -</p> <ul style="list-style-type: none"> (a) Qualification tests for welders as G.S. Item 15.23 and submission of welding record as G.S. Item 15.24. (b) Approval tests of welding as G.S. Item 15.26. (c) Test welded joints by non-destructive testing methods, and employing an approved specialist firm to carry out and interpret these tests all as G.S. Item 15.35. (d) Making good damaged galvanised surfaces as G.S. Items 15.30 and 15.40. (e) Providing manufacturers' certificates as G.S. Item 15.12. (f) Marking for identification on all materials as G.S. Item 15.13, protection from damage and delivery in matching sequence. 	Rates for structural steel works
XXX.	<p>The rates for mild steel shall further include for : -</p> <ul style="list-style-type: none"> (a) Forging, notching, framing and bending. (b) Pointed, forged, fanged and threaded ends. (c) Mitres angles, ramps and wreaths. (d) Spot, fillet and seam welding. 	Rates for mild steel
XXXI.	<p>The rates for sheet metal work shall further include for : -</p> <ul style="list-style-type: none"> (a) Notching, dressing, bending and rolled edges. (b) Punching holes. (c) Plugging or drilling existing surfaces. (d) Fixing with an approved adhesive. 	Rates for sheet metal work
XXXII.	<p>The rates for lining, ducting, gutters, ventilator and the like shall further include for : -</p> <ul style="list-style-type: none"> (a) Notching, dressing, bending and rolled edges. (b) Punching holes. (c) Plugging or drilling existing surfaces. (d) Fixing with an approved adhesive. (e) All bends, ends, inlets, outlets, junctions, connections, flanged joints and the like. (f) Forming perforations (gross weight measured). (g) Fixing to wood or metal framing with or without brackets (framing and brackets measured separately). 	Rates for lining, ducting, gutters, ventilator and the like

SPECIAL CONDITIONS (CONT'D)

**Rates for
collapsible gates**

- XXXIII. The rates for collapsible gates shall further include for : -
- (a) Framing to head, jambs, top and bottom guides.
 - (b) Fixing blocks, pickets, diagonal folding item bars and fixing lugs.
 - (c) Riveted pivot points with brass washers and spacers.
 - (d) Supply and fixing of ball bearing rollers, retaining catches, catch hook, brass pull handles, lock and all necessary ironmongeries.
 - (e) Forming pockets in existing structure, grouting in with cement mortar and making good.

**Rates for bolts
and anchor bolts**

- XXXIV. The rates for bolts and anchor bolts shall further include for : -
- (a) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
 - (b) Grouting into new or existing mortice or holes.
 - (c) Providing and fixing with nuts and washers.
 - (d) Making good disturbed surfaces.
 - (e) Components and devices for grouping and tying anchor bolts to form assemblies of bolts.

**Rates for
corrugated and
profiled sheet
cladding**

- XXXV. The rates for corrugated and profiled sheet cladding shall further include for : -
- (a) Works at any height and locations.
 - (b) Works to new or existing surfaces in repairs.
 - (c) Forming joints and allowing for laps including side and end laps when required.
 - (d) Allowing for cutting, waste and breakage.
 - (e) Sealing at edges, joints and around intersections and projections.
 - (f) All narrow widths and small areas.
 - (g) Providing shop drawings as necessary for the works.
 - (h) Making good affected areas to match existing.
 - (i) Allowing all notching and fitting edges of sheets and mitring corners as required, and all mitred angles, junctions and ends.
 - (j) Drilling holes for and providing all drive screws, self-tapping screws, rivets, bolts, hook bolts, nuts, metal and rubber washers, and plastic caps for fixing to purlins or framing spaced at any interval.
 - (k) Drilling holes to existing or new purlins of framing spaced at any interval for the fixing of corrugated and profiled sheet cladding.
 - (l) Forming holes for pipes or articles.
 - (m) Recommended fixing method in accordance with the manufacturer's instructions.
 - (n) Forming movement joints as required.
 - (o) Forming sheets to required curvature.

SPECIAL CONDITIONS (CONT'D)

XXXVI. The rates for tubular metal work shall further include for : -	Rates for tubular metal work
<ul style="list-style-type: none"> (a) Framing and bending. (b) Cut and welded junctions, angles, tees and cross joints. (c) Flanged or screw fitting connectors. (d) Screw fitting bends, tees, crosses and flanges. (e) Ramps, wreaths and fanged, fair and capped ends. 	
XXXVII. The rates for stainless steel shall further include for : -	Rates for stainless steel
<ul style="list-style-type: none"> (a) Items described as trim or cover strip shall include for cutting to length and mitred angles. (b) Finishing all welds, etc. to match the finish specified. (c) Treatment on surfaces in contact with concrete or dissimilar metals with one coat of bituminous paint on stainless steel surfaces or using an approved tape. 	
XVIII. The rates for aluminium shall further include for : -	Rates for aluminium
<ul style="list-style-type: none"> (a) Items described as trim or cover strip shall include for cutting to length and mitred angles. (b) Ramps, wreaths and flanged, fair and capped ends. (c) Treatment on surfaces in contact with concrete or dissimilar metals with one coat of bituminous paint on aluminium surfaces or using an approved tape. 	
XII. The rates for wire netting, wire mesh, welded wire mesh, expanded metal and chain link shall further include for : -	Rates for wire netting, wire mesh, welded wire mesh, expanded metal and chain link
<ul style="list-style-type: none"> (a) All bending and notching required. (b) Allowance for side and end laps. (c) Allowance for spot weld, staples, tying wire, strained wire and the like as required. 	
XL. The rates for steel windows and doors shall further include for : -	Rates for steel windows and doors
<ul style="list-style-type: none"> (a) Providing steel clamps to all opening lights of casements as G.S. Item 17.32 (o). (b) Providing and fixing galvanised mild steel glazing beads and drips, if required. (c) Providing and fixing galvanised mild steel fixing lugs or anchor bolts as required. (d) Providing and fixing all necessary ironmongeries except torque arm control system. (e) Providing drawings as G.S. Item 17.34. (f) Providing sample as G.S. Item 17.35. (g) Raking joints, pointing, masking, cleaning as G.S. Item 17.36 (i). (h) Making good disturbed surfaces. (i) Protecting and cleaning. 	

SPECIAL CONDITIONS (CONT'D)

Rates for repairs to metal windows and doors

- XLI. The rates for repairs to metal windows and doors shall further include for : -
- (a) Cutting at all means.
 - (b) Drilling and tapping to existing framing including riveting and welding.
 - (c) Providing and fixing screws, rivets, etc. and the like.
 - (d) Cutting mortices and grouting in cement mortar and making good disturbed surfaces.
 - (e) Making good disturbed surfaces.
 - (f) Protecting and cleaning.

Rates for aluminium windows and doors

- XLII. The rates for aluminium windows and doors shall further include for : -
- (a) Providing all necessary galvanised steel fixing lugs and the like as G.S. Item 17.33 (e).
 - (b) Providing galvanised steel water bars as G.S. Item 17.33 (f).
 - (c) Providing and fixing all necessary ironmongeries, fittings and furniture as G.S. Items 17.33 (l) and 17.33 (n) except remote control system.
 - (d) Providing and fixing all necessary weather-strip as G.S. Item 17.33 (i).
 - (e) Providing drawings as G.S. Item 17.34.
 - (f) Providing sample as G.S. Item 17.35.
 - (g) Bedding frames as G.S. Item 17.36 (h).
 - (h) Raking joints, pointing, masking, cleaning as G.S. Item 17.36 (j).
 - (i) Treatment on surfaces in contact with concrete or dissimilar metals with one coat of bituminous paint on aluminium surfaces or using an approved tape.

Rates for curtain walls

- XLIII. The rates for curtain walls shall further include for : -
- (a) The design of the curtain walls to comply with the maximum Overall Thermal Transfer Values (OTTV) for building (including walls and roof) of 23 w/m² or less.
 - (b) All submissions of information as required in G.S. Item 16.07.
 - (c) Requirements pursuant to codes and standards as G.S. Item 16.05 and an itemised list of deviations from the Specification and Drawings for the works.
 - (d) Submission of drawings and calculations as G.S. Item 16.09.
 - (e) Submission of samples, mock-up erection and tests.
 - (f) Method statement related to jointing of components, fire barriers between perimeters of floors and curtain wall, programme for the works, erection and any remedial works.
 - (g) In the case of aluminium curtain walls, all types of anodised finishes, powder coated, organic coating fluorocarbon coated or PVF² finishes.
 - (h) In the case of stainless steel curtain walls, all types of polished finishes.
 - (i) Reinforcing members, sub-frames and the like of any material.
 - (j) Fixing, connections and provision of anchorages.

SPECIAL CONDITIONS (CONT'D)

XLIII.	<ul style="list-style-type: none"> (k) Openable windows and doors, integral louvres and associated ironmongeries and fittings. (l) Spandrels, stone panels and their supporting systems. (m) Cills, copings, water bars, flashings, seals and other attachments including dressing to roofs/abutments. (n) Isolation of dissimilar metals and moving parts. (o) Support fire-saving insulation on galvanized steel support clips spaced at a maximum of 450 mm centres. (p) Preparation work to adjoining structure for attachment of curtain wall. (q) All glass and glazing work. (r) All tests, at field or in laboratories, and report work. (s) Sealing joints within curtain wall and joints to existing. (r) Provision of reports, manufacturer's guarantee, maintenance manuals and deed of warranty, if required. (s) Provision of anchors for gondola. (t) Provision of lightning protection. (u) Provision of Field or Site mock-up. (v) Provision of closure panel for venetian blind/shutter. (w) Provision of waterproofing/water-tightness. (x) Protection and cleaning. 	Rates for curtain walls (cont'd)
XLIV.	The Special Conditions for Section 09 - Ironmongery in this Schedule shall apply equally to all items of ironmongery in this Section.	Rates for ironmongery
XLV.	<p>The rates for solid/composite aluminium cladding shall further include for : -</p> <ul style="list-style-type: none"> (a) The design of solid/composite aluminium cladding. (b) Submission of design, calculation and drawings by a registered structural engineer. (c) Submission of details related to quality, coating finish, thickness and standard of aluminium and galvanised mild steel reinforcement together with the manufacturer's certification. (d) Submission of samples, mock-up erection and testing. (e) Method statement related to jointing of components, programme for the work, erection and any remedial works. (f) All types of anodised finishes, powder coated, organic coating fluorocarbon coated or PVF² finishes. (g) Reinforcing members, sub-frames and the like of any materials. (h) Fixing, connections and provision of anchorages. 	Rates for solid/composite aluminium cladding

SPECIAL CONDITIONS (CONT'D)

Rates for solid/composite aluminium cladding (cont'd)

- XLV. (i) Openable access doors, louvres and openings for other building services installation.
- (j) Ironmongeries and fittings.
- (k) Isolation of dissimilar metals and moving parts.
- (l) Support fire-safing insulation on galvanized steel support clips spaced at a maximum of 450 mm centres.
- (m) Preparation work to adjoining structure for attachment of cladding.
- (n) Sealing joints within cladding and joints to existing.
- (o) Provision of reports, maintenance manuals and manufacturer's guarantee.
- (p) Provision of anchors for gondola.
- (q) Provision of lightning protection.
- (r) Provision of Field or Site mock-up.
- (s) Provision of waterproofing/water-tightness.
- (t) Protection and cleaning.

Rates for shutters

- XLVI. The rates for shutters shall further include for : -
- (a) Cutting mortice, sinking or drilling in concrete, brick, stone or other surfaces as required.
- (b) Grouting into new or existing mortice or holes.
- (c) Providing and fixing with nuts and washers.
- (d) Providing and fixing hinges, locking device, lock and all necessary ironmongeries.
- (e) Making good disturbed surfaces.

Rates for fire resisting roller shutters

- XLVII. The rates for fire resisting roller shutters shall further include for : -
- (a) Supply and installation in accordance with the manufacturer's instructions and Particular Specification.
- (b) Providing and fixing self closing mechanism activated by smoke detector(s) and manual control device(s) on both side of the wall openings for automatic and manual operation compliance with the Fire Service Installation if Government Buildings, Architectural Services Department and all accessories, ironmongeries and the like recommended by the manufacturer.
- (c) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
- (d) Grouting into new or existing mortice or holes.
- (e) Providing back up power supply.
- (f) Connecting to fire alarm system, if required.
- (g) Finishing all surfaces as required.
- (h) Providing test certificate, operation manuals and manufacturer's guarantee.

SPECIAL CONDITIONS (CONT'D)

- XLVIII. The rates for transparent shutters shall further include for : -
- Rates for transparent shutters**
- (a) Supply and installation in accordance with the manufacturer's instructions.
 - (b) Cutting mortice, sinking or drilling in concrete, brick, stone or other surfaces as required.
 - (c) Grouting into new or existing mortice or holes.
 - (d) Providing and fixing with nuts and washers.
 - (e) Providing and fixing typhoon shutter guide with locking device.
 - (f) Providing and fixing hinges, locking device, lock and all necessary ironmongeries.
 - (g) Making good disturbed surfaces.
 - (h) Providing test certificate, operation manuals and manufacturer's guarantee.
- XLIX. The rates for proprietary fire resisting doors shall further include for : -
- Rates for proprietary fire resisting doors**
- (a) Supply and installation in accordance with the manufacturer's instructions.
 - (b) Providing and fixing door frames, all accessories, ironmongeries and the like recommended by the manufacturer (panic bolt, emergency panic device and digital locking device measured separately).
 - (c) Providing back up power supply, if required.
 - (d) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
 - (e) Grouting into new or existing mortice or holes.
 - (f) Finishing all surfaces, if required.
 - (g) Making good disturbed surfaces.
 - (h) Providing test certificate, operation manuals and manufacturer's guarantee.
- L. The rates for proprietary automatic swing and sliding doors shall further include for : -
- Rates for proprietary automatic swing and sliding doors**
- (a) Supply and installation in accordance with the manufacturer's instructions.
 - (b) Providing and fixing door frames, door operator, automatic mechanism, interlocking devices and all necessary accessories, ironmongeries and the like recommended by the manufacturer.
 - (c) Providing clear tempered glass door panel or observation panel.
 - (d) Providing back up power supply, if required.
 - (e) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
 - (f) Grouting into new or existing mortice or holes.
 - (g) Finishing all surfaces, if required.
 - (h) Making good disturbed surfaces.
 - (i) Providing test certificate, operation manuals and manufacturer's guarantee.

SPECIAL CONDITIONS (CONT'D)

Rates for proprietary fire resisting partitions

- LI. The rates for proprietary fire resisting partitions shall further include for : -
- (a) Supply and installation in accordance with the manufacturer's instructions.
 - (b) Cutting mortice or drilling in concrete, brick, stone or other surfaces as required.
 - (c) Grouting into new or existing mortice or holes.
 - (d) Finishing both sides of partition with fire resisting boarding/material.
 - (e) Finishing all surfaces, if required.
 - (f) Making good disturbed surfaces.
 - (g) Providing test certificate, operation manuals and manufacturer's guarantee.

Rates for fibreglass house and planter

- LII. The rates for fibreglass house and planter shall further include for : -
- (a) All necessary accessories recommended by the manufacturer.
 - (b) Fixing to concrete base or steel support (measured separately) including anchor bolts.

G.S. clauses

- LIII. G.S. clauses for the following items can be found in the respective sections of the General Specification for Building as listed below : -
- (a) Steel sheet cladding - Section 12 - Roofing.
 - (b) Fencing and gates - Section 24 - External Works.
 - (c) Structural steel work - Section 15 - Structural Steel Work.
 - (d) Curtain walls - Section 16 - Curtain Walls.
 - (e) Corrugated and profiled sheeting cladding - Section 12 - Roofing.
 - (f) Strongroom doors - Section 22 - Interior Fittings and Fixtures.

Item	STEEL SHORING			Item
		Erect, maintain, take down and clear away	Erect, maintain, and left-in position	
		A	B	
		\$	\$	
	The following Items 10001 to 10002 inclusive will only be paid in accordance with Special Conditions Clause III.			
	<i>Per kg</i>			
10001	Steel shoring to support surface of excavation.....	7.60	5.80	10001
10002	Steel shoring to support existing building or structure.....	9.80	8.10	10002
	HOARDINGS AND WALKWAYS			
	The following Items 10003 to 10014 inclusive will only be paid in accordance with Special Conditions Clause I.			
	<i>Per linear metre</i>			
10003	Covered walkway "Type 1" as detailed in Drawing Nos. 9711_01, 9711_02 and 9711_10 to 9711_12.....	3,473.60	4,321.60	10003
10004	Covered walkway "Type 2" as detailed in Drawing Nos. 9711_03, 9711_04 and 9711_10 to 9711_12.....	2,550.90	3,157.50	10004
10005	Hoarding "Type 3" as detailed in Drawing Nos. 9711_05 to 9711_07 and 9711_11 to 9711_12.....	1,173.50	1,442.60	10005
10006	Hoarding "Type 4" as detailed in Drawing Nos. 9711_08, 9711_09 and 9711_11 to 9711_12.....	585.50	734.40	10006
10007	Covered walkway "Type 5" as detailed in Drawing Nos. 9711_21 to 9711_23, HOARDING/5/SK1 - SK10 and HOARDING/6/SK1 - SK10.....	5,659.10	7,302.40	10007
10008	Covered walkway "Type 6" as detailed in Drawing Nos. 9711_24 to 9711_26, HOARDING/5/SK1 - SK10 and HOARDING/6/SK1 - SK10.....	9,174.10	11,838.00	10008
	<i>Each</i>			
10009	Gateway to covered walkway "Type 1" as detailed in Drawing Nos. 9711_01, 9711_02 and 9711_10.....	19,890.00	24,862.60	10009
10010	Gateway to covered walkway "Type 2" as detailed in Drawing Nos. 9711_03, 9711_04 and 9711_10.....	19,890.00	24,862.60	10010
10011	Gateway to hoarding "Type 3" as detailed in Drawing No. 9711_05.....	15,337.00	19,171.30	10011
10012	Gateway to hoarding "Type 4" as detailed in Drawing No. 9711_08.....	15,337.00	19,171.30	10012
10013	Gateway for covered walkway "Type 5" as detailed in Drawing Nos. 9711_21 and 9711_22.....	43,512.20	54,311.60	10013
10014	Gateway for covered walkway "Type 6" as detailed in Drawing Nos. 9711_24 and 9711_25.....	45,762.60	57,120.20	10014
	TEMPORARY WORK - FIRE PROTECTION ENCLOSURE			
	The following Items 10015 to 10016 inclusive will only be paid in accordance with Special Conditions Clause II.			
	<i>Per square metre</i>			
10015	Temporary enclosure with fire protection material of 1 hour fire rated period.....	336.30	412.70	10015
10016	Ditto but 2 hour fire rated period.....	799.60	917.60	10016

Item	STRUCTURAL STEEL WORK					Item
HOT ROLLED STEEL; GRADE 43 (A, C, D)						
<i>Per kg</i>						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
10017	Round rods.....	16.90	4.00	4.70	10.80	10017
10018	Square rods or flat bars n.e. 300 mm wide.....	17.00	4.00	4.70	10.80	10018
10019	Plate or flat bars exceeding 300 mm wide.....	17.20	3.60	4.20	10.10	10019
10020	Angle sections.....	17.20	4.00	4.70	11.30	10020
10021	Tee sections.....	17.20	4.00	4.70	11.30	10021
10022	Universal beams, columns, channels or "I" joists.....	14.10	2.70	3.20	7.50	10022
10023	Rectangular, square or circular hollow sections.....	15.50	2.90	3.40	8.30	10023
10024	Fabricated small items n.e. 2 kg each.....	18.90	4.20	5.10	12.10	10024
HOT ROLLED STEEL; GRADE 50B						
<i>Per kg</i>						
10025	Round rods.....	17.20	4.00	4.70	10.80	10025
10026	Square rods or flat bars n.e. 300 mm wide.....	17.30	4.00	4.70	10.80	10026
10027	Plate or flat bars exceeding 300 mm wide.....	17.50	3.60	4.20	10.10	10027
10028	Angle sections.....	17.60	4.00	4.70	11.30	10028
10029	Tee sections.....	17.60	4.00	4.70	11.30	10029
10030	Universal beams, columns, channels or "I" joists.....	14.70	2.70	3.20	7.50	10030
10031	Rectangular, square or circular hollow sections.....	16.40	2.90	3.40	8.30	10031
10032	Fabricated small items n.e. 2 kg each.....	18.40	4.20	5.10	12.10	10032
COLD ROLLED STEEL TO BS EN 10162:2003						
<i>Per kg</i>						
10033	Angle or tee sections.....	15.80	4.00	4.70	11.30	10033
10034	Channels, lipped channels or lipped "Z" sections.....	17.10	3.80	4.70	11.80	10034
10035	Non-standard purlin sections or similar.....	18.00	4.00	4.90	12.80	10035
10036	Rectangular, square or circular hollow sections.....	13.70	2.90	3.40	8.30	10036
10037	Fabricated small items n.e. 2 kg each.....	17.50	4.20	5.10	12.10	10037
(Note : - The above Items 10033 to 10037 inclusive for cold rolled steel to BS EN 10162:2003 will only be paid for, if ordered by the Maintenance Surveyor in writing)						

Item	MILD STEEL					Item
ROLLED SECTIONS AND PLATE						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
10038	Round rods	14.30	3.90	4.50	9.00	10038
10039	Square rods or flat bars n.e. 300 mm wide.....	14.50	3.90	4.50	9.00	10039
10040	Plate or flat bars exceeding 300 mm wide.....	15.90	3.40	4.10	9.80	10040
10041	Chequer plates	17.60	4.10	4.70	11.30	10041
10042	Angle sections	16.30	3.90	4.50	11.00	10042
10043	Tee sections.....	16.30	3.90	4.50	11.00	10043
10044	Universal beams, columns, channels or "I" joists.....	12.60	2.60	3.10	7.30	10044
10045	Rectangular, square or circular hollow sections.....	14.60	2.80	3.30	8.10	10045
SHEET METAL WORK						
		<i>Per kg</i>				
10046	Flat or formed sheet covering	14.60	3.90	4.50	9.50	10046
10047	Sheet lining to brick or concrete duct	18.80	4.30	6.80	13.70	10047
10048	Sheet as ducting.....	18.30	4.30	6.10	13.20	10048
10049	Sheet as pipes, gutters, funnels, hoods, chimney cowls, roof plates and the like.....	19.50	4.70	6.80	14.40	10049
10050	Ventilator formed to detail (gross weight measured)	20.50	4.90	7.20	15.40	10050

Item	MILD STEEL (CONT'D)					Item		
COLLAPSIBLE GATES								
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only			
	<i>Per kg</i>	A \$	B \$	C \$	D \$			
10051	Mild steel collapsible gates, diamond pattern, welded and riveted connections.....	17.70	3.70	5.10	12.20	10051		
10052	Ditto but galvanised.....	22.10	3.70	5.70	13.70	10052		
SUNDRY REPAIRS								
Thickness of metal (mm)								
		N.e. 3	3 - 6	6 - 12	12 - 20			
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$			
10053	Straight, raking or circular cutting on any type of metal including filing edges clean.....	2.60	3.50	6.10	9.70	10053		
Diameter of thread of hole (mm)								
		N.e. 15	15 - 20	20 - 25	25 - 30	30 - 40	40 - 50	
	<i>Each</i>	A \$	B \$	C \$	D \$	E \$	F \$	
10054	Cut screw thread on end of steel or iron round rod or tube for length to twice the diameter of the rod or tube.....	14.00	15.20	16.20	17.40	19.70	21.90	10054
10055	Add to Item 10054 for each additional 25 mm or part thereof in length	1.80	1.90	2.10	2.20	2.50	2.80	10055
10056	Cut screw thread on end of steel or iron square rod for length equal to twice the thickness of the rod.....	14.00	15.20	16.20	17.40	19.70	21.90	10056
10057	Add to Item 10056 for each additional 25 mm or part thereof in length.....	1.80	1.90	2.10	2.20	2.50	2.80	10057
10058	Cut off end of bolt or rod for threading or re-threading.....	4.40	4.80	5.10	5.40	6.10	6.90	10058
10059	Drill hole in metal n.e. 6 mm deep including countersinking if required.....	4.40	4.80	5.10	5.40	6.10	6.90	10059
10060	Add to Item 10059 for each additional 6 mm or part thereof in depth.....	1.30	1.50	1.60	1.80	1.90	2.10	10060
10061	Drill and tap hole in metal n.e. 6 mm deep.....	8.80	9.50	10.10	10.80	12.30	13.70	10061
10062	Add to Item 10061 for each additional 6 mm or part thereof in depth.....	2.60	2.90	3.10	3.20	3.70	4.10	10062

Item	MILD STEEL (CONT'D)		Item
	SUNDRY REPAIRS (CONT'D)	A	
	<i>Each</i>	\$	
10063	Punch small hole for nail, screw and the like through any type of sheet metal not thicker than 3 mm.....	0.90	10063
	Execute the following welding including providing all plant, welding rods, etc., filing weld on completion and preparing and chamfering ends, edges and surfaces to be welded as required : -		
	<i>Per linear metre</i>		
10064	Fillet weld in lengths n.e. 300 mm at connections (net length of fillet measured - allowance made for angles, etc.).....	92.20	10064
10065	Fillet seam weld in lengths n.e. 300 mm at lapped joints (ditto).....	84.50	10065
10066	Single butt weld in lengths exceeding 300 mm at butt joints and connections (net length of joint measured on one face only).....	86.00	10066
10067	Double butt weld in lengths exceeding 300 mm when ordered at butt joints and connections where metal exceeds 6 mm thick (net length of joint measured on both faces).....	89.60	10067
	<i>Each</i>		
10068	Spot weld end of wire or rod n.e. 12 mm diameter, or bar n.e. 50 mm girth, and the like.....	3.40	10068

Item	GALVANIZED MILD STEEL	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	Item
	<i>Per kg</i>	A \$	B \$	C \$	D \$	
10069	Round rods.....	18.40	3.90	5.10	9.80	10069
10070	Square rods or flat bars n.e. 300 mm wide.....	19.30	3.90	5.10	9.80	10070
10071	Plate or flat bars exceeding 300 mm wide.....	20.60	3.40	4.70	11.00	10071
10072	Chequer plates.....	23.10	4.10	5.30	12.50	10072
10073	Angle sections.....	20.50	3.90	4.70	12.20	10073
10074	Tee sections.....	20.50	3.90	4.70	12.20	10074
10075	Universal beams, columns, channels or "I" joists.....	16.40	2.60	3.50	8.10	10075
10076	Rectangular, square or circular hollow sections excluding galvanised mild steel tubing.....	18.30	2.80	3.90	8.80	10076
10077	Water bar.....	21.30	3.90	5.10	11.70	10077
10078	Wall tie, frame holdfast, single piece ceiling hanger or bracket, and the like.....	25.20	6.30	8.60	15.60	10078
10079	Composite ceiling hanger, bracket and the like of two or more pieces including assembling, supplying and fixing nuts, bolts and washers, or welding.....	24.20	4.90	6.30	14.70	10079
10080	Chains, including hooks, rings, shackles, etc., complete.....	30.60	1.80	2.10	4.90	10080
10081	Flat / formed sheet covering.....	20.00	3.90	5.10	11.70	10081
10082	Perforated flat or formed sheet covering.....	19.00	3.90	5.10	11.70	10082
10083	Sheet lining to brick or concrete duct.....	22.90	4.30	7.60	14.70	10083
10084	Sheet covering to roofs, domes, etc., including all rolls, welts, flashings and the like.....	23.40	4.30	6.80	15.20	10084
10085	Sheet as ducting.....	22.40	4.30	7.00	14.20	10085
10086	Sheet as pipes, gutters, funnels, hoods, chimney cowls, roof plates and the like.....	23.60	4.70	7.00	15.40	10086
10087	Sheet in square or rectangular tanks, storage cisterns and the like, and including angle stiffeners, corner plates and cover.....	23.10	3.70	6.80	14.90	10087
10088	Ventilator formed to detail (gross weight measured).....	25.10	4.90	8.00	16.90	10088
10089	Stopcock or meter box and the like with hinged or loosed lid to detail (ironmongery measured separately).....	24.10	4.30	7.80	15.90	10089

Item	GALVANIZED MILD STEEL (CONT'D)				Item	
	<i>Each</i>			A \$		
10090	16 mm Diameter dowel 75 mm long including letting 40 mm in a frame, cutting mortice in concrete floor or paving if required, and grouting in and making good.....			9.40	10090	
		Diameter (mm)				
		40	50	65	75	
	Thickness (mm)	1.00	1.00	1.26	1.26	
	<i>Each</i>	A \$	B \$	C \$	D \$	
10091	Single sided round toothed timber connector plate holed for bolt (measured separately) and fixing.....	7.00	7.30	7.70	8.10	10091
10092	Double sided ditto.....	10.00	10.20	10.70	11.10	10092
	GALVANIZED STEEL WINDOWS AND GLAZED DOORS					
	Supply and fix the following galvanized steel window and glazed door frames : -					
	<i>Per square metre</i>	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
10093	Galvanised steel window medium sections.....	401.50	29.50	30.70	61.40	10093
10094	Extra over for openable portions.....	210.20	-	-	-	10094
10095	Galvanised steel window large (38 mm) sections.....	477.50	34.80	36.80	73.70	10095
10096	Extra over Item 10095 for openable portions.....	249.70	-	-	-	10096
10097	Galvanised steel door medium sections.....	344.30	27.10	27.60	55.30	10097
10098	Extra over Item 10097 for openable portions.....	178.40	-	-	-	10098
10099	Galvanised steel door large (38 mm) sections.....	409.60	31.80	33.10	66.30	10099
10100	Extra over Item 10099 for openable portions.....	212.00	-	-	-	10100

Item	REPAIRS TO GALVANIZED STEEL WINDOWS AND DOORS	A \$	Item																										
<i>Per linear metre</i>																													
10101	Coupling mullion for window complete with mastic for assembly.....	46.90	10101																										
10102	Coupling mullion for door or side light ditto.....	46.90	10102																										
10103	Coupling transom for window ditto.....	49.80	10103																										
10104	Coupling transom for door or side light with ventilator over ditto.....	52.70	10104																										
<i>Per square metre</i>																													
10105	Take down and clear away openable sash, ventilator, window or door of any size or section including cutting hinges away from frame.....	13.40	10105																										
10106	Take down and set aside for re-use ditto.....	10.70	10106																										
10107	Fix only openable sash, ventilator, window or door of any size or section to existing frame including welding or riveting hinges.....	21.20	10107																										
<i>Each</i>																													
10108	Oil only hinges and fittings to openable sash, ventilator, window or door.....	3.60	10108																										
10109	Weld joint, corner, etc., of sash, ventilator, window, door or frame.....	16.90	10109																										
<table border="1" style="width: 100%;"> <thead> <tr> <th></th> <th>Supply and fix</th> <th>Take down and clear away</th> <th>Take down and set aside for re-use</th> <th>Fix only</th> <th></th> </tr> <tr> <th></th> <th>A \$</th> <th>B \$</th> <th>C \$</th> <th>D \$</th> <th></th> </tr> </thead> <tbody> <tr> <td>10110</td> <td>Galvanised steel glazing bar.....</td> <td>22.50</td> <td>3.90</td> <td>5.50</td> <td>13.00</td> <td>10110</td> </tr> <tr> <td>10111</td> <td>Galvanised steel channel bead fixed to existing window and door.....</td> <td>25.90</td> <td>4.20</td> <td>7.60</td> <td>17.60</td> <td>10111</td> </tr> </tbody> </table>					Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only			A \$	B \$	C \$	D \$		10110	Galvanised steel glazing bar.....	22.50	3.90	5.50	13.00	10110	10111	Galvanised steel channel bead fixed to existing window and door.....	25.90	4.20	7.60	17.60	10111
	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only																									
	A \$	B \$	C \$	D \$																									
10110	Galvanised steel glazing bar.....	22.50	3.90	5.50	13.00	10110																							
10111	Galvanised steel channel bead fixed to existing window and door.....	25.90	4.20	7.60	17.60	10111																							

Item	REPAIRS TO GALVANIZED STEEL WINDOWS AND DOORS (CONT'D)	Supply and fix			Take down and clear away	Take down and set aside for re-use	Fix only	Item
		Galvan-ized	Brass	B.M.A.				
		A \$	B \$	C \$				
	<i>Each</i>							
10112	Pair 50 mm butt hinges.....	28.90	-	-	8.80	-	21.90	10112
10113	Pair 75 mm ditto.....	33.90	-	-	9.50	-	23.40	10113
10114	Pair projecting hinges (for metal casement).....	47.50	-	-	10.20	-	24.90	10114
10115	Barrel bolt n.e. 150 mm long with socket.....	40.10	-	78.70	8.80	-	23.70	10115
10116	Ditto but 150 - 225 mm long ditto.....	44.20	-	89.90	9.20	-	24.90	10116
10117	Ditto but 225 - 300 mm long ditto.....	56.00	-	126.20	9.70	-	26.20	10117
10118	Mortice lock with staple including labelling keys.....	-	-	189.50	21.90	29.20	72.80	10118
10119	Set of lever handle furniture.....	-	-	61.70	7.30	8.80	21.90	10119
10120	75 mm Cleat hook.....	12.90	-	18.10	2.40	-	5.80	10120
10121	Spring catch with ring and staple.....	25.50	-	40.90	4.10	5.10	10.20	10121
10122	Staple only.....	6.90	-	14.60	1.80	-	4.40	10122
10123	Screw eye.....	5.20	-	7.50	1.50	-	2.90	10123
10124	Casement fastener with 115 mm handle and two point nose.....	35.30	39.80	40.80	3.70	4.40	21.90	10124
10125	Two throw casement fastener with 115 mm handle and steel connecting rod.....	83.00	130.80	143.20	7.30	8.80	43.90	10125
10126	250 mm Casement stay of sliding bar type.....	36.70	78.60	84.80	5.30	6.60	13.10	10126
10127	300 mm ditto.....	41.20	85.50	93.70	5.60	6.70	13.90	10127
10128	200 mm Casement stay with two stud pins.....	26.10	39.70	44.20	5.00	6.00	12.40	10128
10129	250 mm ditto.....	27.80	43.00	48.00	5.30	6.30	13.00	10129
10130	300 mm ditto.....	29.50	46.30	51.80	5.40	6.60	13.60	10130
10131	Single stud pin only.....	6.50	15.20	17.20	1.50	-	2.90	10131

Item	REPAIRS TO GALVANIZED STEEL WINDOWS AND DOORS (CONT'D)						Item
	Supply and fix			Take down and clear away	Take down and set aside for re-use	Fix only	
	Galvan-ized	Brass	B.M.A.				
	A	B	C	D	E	F	
	\$	\$	\$	\$	\$	\$	
	<i>Each</i>						
10132	Set of sliding shoes, pivots and friction side arms for projecting casement.....						10132
	-	118.70	137.40	5.30	6.30	13.10	
10133	Pair fanlight roller stays.....						10133
	19.10	-	45.60	2.90	3.50	5.80	
10134	Through-the-frame type fanlight stay.....						10134
	-	-	41.40	2.20	2.60	4.40	
10135	Roto-operator opening and closing mechanism with handle.....						10135
	-	-	104.50	2.60	3.10	5.10	
10136	Fanlight opener with 300 mm rack and pinion, worm wheel, pulley and endless cord.....						10136
	66.50	-	88.90	15.10	18.10	29.20	
10137	Ditto but with 375 mm long rack and pinion.....						10137
	77.30	-	105.20	15.80	19.00	30.70	
	GALVANIZED STEEL SHEET CLADDING (FACE WORK OTHER THAN ROOFING)						
				Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only
				A	B	C	D
				\$	\$	\$	\$
	<i>Per square metre</i>						
10138	0.60 mm corrugated steel sheet cladding in any corrugation fixed to timber framing (measured separately).....						10138
				76.50	4.70	11.10	22.10
10139	Ditto but 0.70 mm thick.....						10139
				79.90	4.80	11.40	22.80
10140	Ditto but 0.80 mm thick.....						10140
				86.50	5.00	11.70	23.40
10141	Ditto but 0.90 mm thick.....						10141
				91.90	5.10	12.10	24.10
10142	Ditto but 1.00 mm thick.....						10142
				97.10	5.30	12.50	24.70
10143	0.60 mm corrugated steel sheet cladding in any corrugation fixed to curved timber framing (measured separately).....						10143
				78.90	5.20	12.30	24.40
10144	Ditto but 0.70 mm thick.....						10144
				82.40	5.30	12.60	25.30
10145	Ditto but 0.80 mm thick.....						10145
				89.00	5.50	12.90	25.90
10146	Ditto but 0.90 mm thick.....						10146
				94.40	5.60	13.30	26.60
10147	Ditto but 1.00 mm thick.....						10147
				99.70	5.80	13.70	27.30

Item	GALVANIZED STEEL SHEET CLADDING (FACE WORK OTHER THAN ROOFING) (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Per square metre</i>					
10148	0.60 mm corrugated steel sheet cladding in any corrugation fixed to steel framing (measured separately).....	77.10	4.80	11.30	22.70	10148
10149	Ditto but 0.70 mm thick.....	80.50	5.00	11.60	23.40	10149
10150	Ditto but 0.80 mm thick.....	87.10	5.10	12.00	24.00	10150
10151	Ditto but 0.90 mm thick.....	92.50	5.30	12.40	24.70	10151
10152	Ditto but 1.00 mm thick.....	97.70	5.40	12.70	25.30	10152
10153	0.60 mm corrugated steel sheet cladding in any corrugation fixed to curved steel framing (measured separately).....	79.50	5.30	12.40	25.00	10153
10154	Ditto but 0.70 mm thick.....	83.00	5.40	12.70	25.90	10154
10155	Ditto but 0.80 mm thick.....	89.60	5.60	13.10	26.50	10155
10156	Ditto but 0.90 mm thick.....	94.90	5.80	13.60	27.20	10156
10157	Ditto but 1.00 mm thick.....	100.30	5.90	13.90	27.90	10157
	<i>Per linear metre</i>					
10158	0.60 mm drip or flashing up to 150 mm girth fixed over door or window head, lapped 150 mm at end laps (measured net).....	15.90	1.60	3.80	7.30	10158
10159	Ditto but 0.70 mm thick.....	17.30	1.80	3.90	7.80	10159
10160	Ditto but 0.80 mm thick.....	18.40	1.90	3.90	7.90	10160
10161	Ditto but 0.90 mm thick.....	20.10	2.00	4.10	8.20	10161
10162	Ditto but 1.00 mm thick.....	21.40	2.20	4.20	8.30	10162

Item	PROFILED STEEL SHEET CLADDING (FACE WORK OTHER THAN ROOFING)	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	Item
		A	B	C	D	
		\$	\$	\$	\$	
	"Trimdek Hi-ten" steel profiled sheeting with "XRW" colorbond finish fixed in fasteners of screws in accordance with the manufacturer's instructions : -					
	<i>Per square metre</i>					
10163	0.47 mm Thick steel profiled sheeting fixed to timber framing.....	203.40	4.40	10.40	20.80	10163
10164	Ditto but fixed to curved timber framing.....	205.60	4.80	11.40	22.90	10164
10165	0.47 mm Thick steel profiled sheeting fixed to steel framing.....	204.00	4.50	10.70	21.30	10165
10166	Ditto but fixed to curved steel framing.....	206.00	5.00	11.70	23.40	10166
	"Lysaght Kliplik" steel profiled sheeting with "XRW" colorbond finish fixed in fasteners of screws in accordance with the manufacturer's instructions : -					
	<i>Per square metre</i>					
10167	0.53 mm Thick steel profiled sheet cladding fixed to timber framing.....	244.60	4.60	10.80	21.50	10167
10168	Ditto but 0.65 mm thick.....	274.90	4.80	11.30	22.50	10168
10169	0.53 mm Thick steel profiled sheet cladding fixed to curved timber framing.....	246.70	5.00	11.80	23.50	10169
10170	Ditto but 0.65 mm thick.....	277.20	5.10	12.10	24.90	10170
10171	0.53 mm Thick steel profiled sheet cladding fixed to steel framing.....	245.10	4.70	11.10	21.90	10171
10172	Ditto but 0.65 mm thick.....	275.50	4.80	11.30	23.10	10172
10173	0.53 mm Thick steel profiled sheet cladding fixed to curved steel framing.....	247.40	5.10	12.10	24.30	10173
10174	Ditto but 0.65 mm thick.....	277.80	5.30	12.60	25.40	10174
	<i>Each</i>					
10175	Cut hole through existing sheet cladding for pipes or articles in any size and thickness.....				21.90	10175

Item	GALVANIZED MILD STEEL TUBING					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per linear metre</i>					
10176	15 mm Bore medium series galvanized tubing.....	23.00	2.40	2.80	8.80	10176
10177	20 mm Ditto.....	30.30	3.10	3.80	11.70	10177
10178	25 mm Ditto.....	43.90	3.90	4.70	14.60	10178
10179	32 mm Ditto.....	53.70	4.70	5.60	17.60	10179
10180	40 mm Ditto.....	65.00	6.30	7.50	23.40	10180
10181	50 mm Ditto.....	87.80	9.20	11.10	29.20	10181
10182	80 mm Ditto.....	136.90	12.00	14.50	38.00	10182
10183	100 mm Ditto.....	185.70	13.90	16.70	43.90	10183
10184	150 mm Ditto.....	281.30	16.20	19.40	51.20	10184
	Add to either of Items 10176 to 10184 inclusive for bending to radius n.e. 15.00 m.....	5%	-	-	-	
	GALVANIZED STEEL WIRE ROPE, ETC.					
	<i>Per linear metre</i>					
10185	3 mm Diameter flexible galvanized steel wire rope in flagstaff guys and the like including all binding and splicing, and splicing to existing rope.....	10.10	1.50	1.80	4.40	10185
10186	4 mm Ditto.....	10.50	1.50	1.90	4.50	10186
10187	6 mm Ditto.....	11.40	1.60	2.00	4.70	10187
10188	8 mm Ditto.....	12.20	1.80	2.10	4.80	10188
10189	10 mm Ditto.....	13.00	1.90	2.30	5.00	10189

Item	GALVANIZED STEEL WIRE ROPE, ETC. (CONT'D)				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Each</i>					
10190	Galvanized steel sail thimble for rope n.e. 6 mm diameter.....	6.70	-	-	-	10190
10191	Ditto but exceeding 6 mm and n.e. 10 mm diameter.....	7.50	-	-	-	10191
10192	Galvanized wrought iron "D" shaped shackle with 6 mm diameter metal rod or bolt at centre of bow.....	14.80	1.60	1.90	4.70	10192
10193	Ditto but with 8 mm diameter metal rod or bolt at centre of bow.....	17.50	1.70	2.00	4.80	10193
10194	Ditto but with 10 mm diameter metal rod or bolt at centre of bow.....	17.60	1.80	2.20	5.00	10194
10195	Heavy duty galvanized steel rope strainer with central body, screw hook on one end and screw eye on the other end, 375 mm long overall to take load of 1 tonne.....	42.70	4.40	5.30	11.00	10195
10196	Ditto but 475 mm long overall to take load of 2 tonnes.....	74.00	7.80	9.40	14.60	10196
	CAST IRON					
	Supply only the following cast iron items including making patterns for articles as required (fixing measured in Brickwork and Blockwork Section of this Schedule) :-					
	<i>Per kg</i>				A	
					\$	
10197	Combined gate, tree grilles, covers, fireplace surround, mantel, range, damper and frame, soot door, fire door, fireplace fret, fire bar and the like except manhole covers and frames n.e. 6.0 kg in weight each.....				7.70	10197
10198	Ditto but exceeding 6.0 kg in weight each.....				7.30	10198
	REPAIRS TO GRATES, RANGES, ETC.					
				Take down and clear away	Fix only	
	<i>Each</i>			A	B	
				\$	\$	
10199	Knob to damper flue or oven door, etc.....			8.80	29.20	10199
10200	Ventilator to oven.....			17.60	58.50	10200
10201	Catch for oven door or keep for oven door latch.....			12.30	40.90	10201
10202	Latch for oven door.....			17.60	58.50	10202
10203	Boiler front			35.10	116.90	10203
10204	Top of range			52.60	175.40	10204

Item	REPAIRS TO GRATES, RANGES, ETC. (CONT'D)					Item				
					Take down and clear away	Fix only				
	<i>Each</i>				A \$	B \$				
10205	Oven or side boiler				70.20	233.90				
10206	Set of front bars, bottom grating, pair of iron fire cheeks, oven door, damper rod, soot door, smoke box, register plane, falling door, etc.				8.80	29.20				
STAINLESS STEEL										
SHEET METAL WORK										
					Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only		
					AISI 304	AISI 316				
	<i>Per kg</i>				A \$	B \$	C \$	D \$	E \$	
10207	Chequer plate.....	81.10	-	7.50	9.20	20.80				
10208	Flat or formed sheet covering.....	65.90	95.20	7.00	8.80	17.60				
10209	Perforated flat or formed sheet covering.....	73.20	106.90	7.00	8.80	17.60				
10210	Sheet as pipes, gutters, funnels, hoods, chimney cowls, roof plates and the like.....	74.70	104.00	10.50	13.10	26.30				
10211	Ventilator formed to detail (gross weight measured).....	70.30	99.60	8.80	11.00	21.90				
METAL SECTIONS										
		Supply and fix						Fix only		
		AISI 304			AISI 316					
	Thickness (mm)	Up to 3	3 - 6	Over 6	Up to 3	3 - 6	Over 6	Up to 3	3 - 6	Over 6
	<i>Per kg</i>	A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$
10212	Square or flat bar n.e. 25 mm wide.....	69.90	69.00	68.20	100.50	99.70	98.80	19.30	18.40	17.60
10213	Ditto exceeding 25 mm wide.....	69.00	68.20	67.30	99.70	98.80	97.90	18.40	17.60	16.70
		Supply and fix						Fix only		
		AISI 304			AISI 316					
	Diameter (mm)	Up to 6	6 - 12	Over 12	Up to 6	6 - 12	Over 12	Up to 6	6 - 12	Over 12
	<i>Per kg</i>	A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$
10214	Round bar.....	65.10	64.70	64.20	93.40	93.00	92.50	18.40	18.00	17.60

Item	STAINLESS STEEL (CONT'D)									Item	
	METAL SECTIONS	Supply and fix						Fix only			
		Thickness (mm)	AISI 304			AISI 316			Under 1		1 - 2
Under 1	1 - 2		Over 2	Under 1	1 - 2	Over 2					
	A	B	C	D	E	F	G	H	I		
<i>Per kg</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$		
10215	Square or rectangular hollow tube outside girth n.e. 75 mm.....	77.90	-	-	113.40	-	-	19.30	-	-	10215
10216	Ditto 75 - 150 mm	77.10	76.60	-	112.60	112.10	-	18.40	18.00	-	10216
10217	Ditto exceeding 150 mm.....	76.20	75.80	75.30	111.70	111.30	110.80	17.60	17.10	16.70	10217
10218	Hollow circular tube outside diameter n.e. 25 mm.....	78.80	78.40	-	114.30	113.90	-	20.20	19.70	-	10218
10219	Ditto exceeding 25 mm.....	77.90	77.50	77.10	113.40	113.00	112.60	19.30	18.90	18.40	10219
10220	Equal or unequal angle, tee or channel total overall width of flanges or legs n.e. 75 mm.....	75.90	75.50	75.00	110.20	109.70	109.30	19.30	18.90	18.40	10220
10221	Ditto 75 - 150 mm.....	75.00	74.60	74.10	109.30	108.90	108.40	18.40	18.00	17.60	10221
10222	Ditto exceeding 150 mm.....	74.10	73.70	73.30	108.40	108.00	107.50	17.60	17.10	16.70	10222
	<i>Per square metre</i>										
10223	Add to either of Items 10208 to 10222 inclusive for Finish No. 4 - Polished with fine grit or hair line finish.....	5.80	5.80	5.80	9.30	9.30	9.20	-	-	-	10223
10224	Add to either of Items 10208 to 10222 inclusive for Finish No. 8 - mirror finish.....	14.50	14.50	14.40	23.20	23.20	23.10	-	-	-	10224

(Note : - The above Items 10208 to 10222 inclusive for stainless steel in grade AISI 316 will only be paid for, if ordered by the Maintenance Surveyor in writing.)

Item	STAINLESS STEEL (CONT'D)						Item
	METAL SECTIONS (CONT'D)						
	<i>Per kg</i>						
10225	Take down and clear away any of the above sections (Items 10212 to 10224 inclusive).....						10225
10226	Take down and set aside for re-use (ditto).....						10226
		Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only	
		AISI 304	AISI 316				
	<i>Each</i>	A	B	C	D	E	
		\$	\$	\$	\$	\$	
10227	Flange plate to 25 mm diameter tubing.....	29.00	43.30	1.60	2.10	5.30	10227
10228	Ditto but to 38 mm diameter tubing.....	32.60	48.80	1.80	2.40	5.70	10228
10229	Ditto but to 50 mm diameter tubing.....	39.50	59.10	2.10	2.80	7.00	10229
10230	Ditto but to 75 mm diameter tubing.....	48.30	72.20	2.60	3.50	8.80	10230
10231	Add to either of Items 10227 to 10230 inclusive for Finish No. 4 - Polished with fine grit or hair line finish	3.30	5.30	-	-	-	10231
10232	Add to either of Items 10227 to 10230 inclusive for Finish No. 8 - mirror finish.....	8.30	12.30	-	-	-	10232
	(Note : - The above Items 10227 to 10230 inclusive for stainless steel in grade AISI 316 will only be paid for, if ordered by the Maintenance Surveyor in writing)						
	BOLTS AND ANCHOR BOLTS						
	<i>Per kg</i>						
10233	Bolt with nut and washer.....	Supply and fix					10233
		Stainless steel AISI 304	Mild steel				
		A	B				
		\$	\$				
		71.60	21.80				

Item	BOLTS AND ANCHOR BOLTS (CONT'D)	Nominal diameter of shank (mm)						Item	
		6	8	10	12	16	20		
		A \$	B \$	C \$	D \$	E \$	F \$		
	<i>Each</i>								
10234	Steel ragbolt 75 mm long overall.....	17.90	18.70	19.60	26.30	30.60	34.90	10234	
10235	Ditto but 100 mm long overall.....	18.60	19.40	20.30	24.10	28.40	32.70	10235	
10236	Ditto but 150 mm long overall.....	19.30	20.20	21.00	24.80	29.10	33.40	10236	
10237	Ditto but 240 mm long overall.....	20.50	21.30	22.20	25.90	30.30	34.60	10237	
10238	Steel ragbolt (loose bolt or bolt projecting type) 50 mm long overall.....	15.20	15.80	16.50	28.00	50.10	64.80	10238	
10239	Ditto but 75 mm long overall.....	15.60	16.30	16.90	29.10	52.70	68.50	10239	
10240	Ditto but 100 mm long overall.....	20.70	21.60	18.00	31.60	57.10	73.90	10240	
10241	Ditto but 150 mm long overall.....	21.90	22.70	23.60	34.20	47.50	79.40	10241	
10242	Ditto but 240 mm long overall.....	22.80	23.70	24.60	46.20	50.40	83.40	10242	
10243	Proprietary non-drilling or self drilling anchor of any length.....	6.60	6.80	7.30	9.60	14.70	23.30	10243	
10244	Proprietary stud anchor of any length.....	6.80	7.00	7.50	10.00	15.60	25.00	10244	
	ALUMINIUM SHEET CLADDING (FACE WORK OTHER THAN ROOFING)								
	<i>Per square metre</i>								
					Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
					A \$	B \$	C \$	D \$	
10245	0.60 mm corrugated aluminium sheet cladding in any corrugation and colour fixed to timber framing (measured separately).....				363.20	4.70	8.90	17.80	10245
10246	Ditto but 0.70 mm thick.....				430.30	4.90	9.40	18.60	10246
10247	Ditto but 0.80 mm thick.....				490.70	5.00	9.70	19.10	10247
10248	Ditto but 0.90 mm thick.....				544.40	5.10	9.90	19.70	10248
10249	Ditto but 1.00 mm thick.....				604.50	5.30	10.10	20.00	10249
10250	0.60 mm corrugated aluminium sheet cladding in any corrugation and colour fixed to curved timber framing (measured separately).....				365.10	5.10	9.90	19.70	10250
10251	Ditto but 0.70 mm thick.....				432.20	5.30	10.20	20.50	10251
10252	Ditto but 0.80 mm thick.....				492.60	5.40	10.50	21.10	10252
10253	Ditto but 0.90 mm thick.....				546.10	5.60	11.00	21.50	10253
10254	Ditto but 1.00 mm thick.....				606.50	5.70	11.30	22.10	10254

Item	ALUMINIUM SHEET CLADDING (FACE WORK OTHER THAN ROOFING) (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Per square metre</i>					
10255	0.60 mm corrugated aluminium sheet cladding in any corrugation and colour fixed to steel framing (measured separately).....	363.80	4.90	9.50	18.40	10255
10256	Ditto but 0.70 mm thick.....	430.80	5.10	9.80	19.00	10256
10257	Ditto but 0.80 mm thick.....	491.00	5.10	9.90	19.40	10257
10258	Ditto but 0.90 mm thick.....	544.70	5.30	10.40	20.00	10258
10259	Ditto but 1.00 mm thick.....	604.90	5.40	10.70	20.50	10259
10260	0.60 mm corrugated aluminium sheet cladding in any corrugation and colour fixed to curved steel framing (measured separately).....	365.70	5.30	10.40	20.30	10260
10261	Ditto but 0.70 mm thick.....	432.70	5.50	10.80	20.90	10261
10262	Ditto but 0.80 mm thick.....	493.00	5.70	11.10	21.50	10262
10263	Ditto but 0.90 mm thick.....	546.70	5.80	11.40	22.10	10263
10264	Ditto but 1.00 mm thick.....	607.10	5.90	11.70	22.70	10264
	<i>Per linear metre</i>					
10265	0.60 mm drip or flashing up to 150 mm girth fixed over door or window head, lapped 150 mm at end laps (measured net).....	38.40	1.50	3.10	6.00	10265
10266	Ditto but 0.70 mm thick.....	44.10	1.70	3.20	6.30	10266
10267	Ditto but 0.80 mm thick.....	49.60	1.80	3.40	6.40	10267
10268	Ditto but 0.90 mm thick.....	55.10	1.90	3.50	6.60	10268
10269	Ditto but 1.00 mm thick.....	60.70	2.00	3.70	6.70	10269
	ALUMINIUM					
	SHEET METAL WORK - MILL FINISH					
	<i>Per kg</i>					
10270	Chequer plate.....	56.90	7.00	8.80	17.60	10270
10271	Flat or formed sheet covering.....	55.40	7.60	9.50	16.10	10271
10272	Perforated flat or formed sheet covering.....	61.30	7.60	9.50	16.10	10272
10273	Sheet as pipes, gutters, funnels, hoods, chimney cowls, roof plates and the like.....	67.80	11.40	14.20	28.50	10273
10274	Ventilator formed to detail (gross weight measured).....	63.00	9.50	11.80	23.70	10274

Item	ALUMINIUM (CONT'D)						Item	
	EXTRUDED METAL SECTIONS - CLEAR ANODIZED FINISH							
		Supply and fix			Fix only			
	Thickness (mm)	Under 2	2 - 6	Over 6	Under 2	2 - 6	Over 6	
		A	B	C	D	E	F	
	<i>Per kg</i>	\$	\$	\$	\$	\$	\$	
10275	Square or flat bar n.e. 25 mm wide.....	104.60	101.90	99.30	56.10	53.50	50.90	10275
10276	Ditto but exceeding 25 mm wide.....	107.20	104.60	101.90	58.80	56.10	53.50	10276
		Supply and fix			Fix only			
	Diameter (mm)	Under 2	2 - 6	Over 6	Under 2	2 - 6	Over 6	
		A	B	C	D	E	F	
	<i>Per kg</i>	\$	\$	\$	\$	\$	\$	
10277	Round bar.....	101.90	100.60	99.30	53.50	52.20	50.90	10277
		Supply and fix			Fix only			
	Thickness (mm)	Under 2	2 - 6	Over 6	Under 2	2 - 6	Over 6	
		A	B	C	D	E	F	
	<i>Per kg</i>	\$	\$	\$	\$	\$	\$	
10278	Square or rectangular hollow tube outside girth n.e. 75 mm.....	104.60	103.20	-	56.10	54.80	-	10278
10279	Ditto but outside girth 75 - 150 mm.....	101.90	100.60	-	53.50	52.20	-	10279
10280	Ditto but outside girth exceeding 150 mm.....	99.30	98.00	-	50.90	49.50	-	10280
10281	Hollow circular tube outside diameter n.e. 25 mm.....	107.20	106.70	-	58.80	57.40	-	10281
10282	Ditto but outside diameter 25 - 50 mm.....	104.60	103.20	101.90	56.10	54.80	53.50	10282
10283	Ditto but outside diameter exceeding 50 mm.....	102.80	101.50	100.20	54.40	53.10	51.70	10283
10284	Equal or unequal angle, tee, channel or similar section total overall width, flanges or legs n.e. 75 mm.....	104.60	103.20	101.90	56.10	54.80	53.50	10284
10285	Ditto but total overall width, flanges or legs 75 - 150 mm.....	101.90	100.60	99.30	53.50	52.20	50.90	10285
10286	Ditto but total overall width, flanges or legs exceeding 150 mm.....	-	-	96.70	-	-	48.20	10286
10287	Segmental or moulded edge trim.....	75.20	-	-	26.80	-	-	10287
	Add to either of Items 10270 to 10274 inclusive for supply of clear anodized aluminium in lieu of mill finish aluminium.....						10%	
	Add to either of Items 10270 to 10274 inclusive for supply of bronze anodized aluminium in lieu of mill finish aluminium.....						15%	
	Add to either of Items 10270 to 10274 inclusive for the supply of black anodized aluminium in lieu of mill finish aluminium.....						20%	
	Add to either of Items 10270 to 10274 inclusive for the supply of powder coated aluminium in lieu of mill aluminium.....						25%	
	Add to either of Items 10275 to 10287 inclusive for supply of bronze anodized aluminium in lieu of clear anodized aluminium.....						5%	
	Add to either of Items 10275 to 10287 inclusive for the supply of black anodized aluminium sections in lieu of clear anodized aluminium.....						10%	
	Add to either of Items 10275 to 10287 inclusive for the supply of powder coated aluminium sections in lieu of clear anodized aluminium.....						15%	

Item	ALUMINIUM (CONT'D)					Item
EXTRUDED METAL SECTIONS - CLEAR ANODIZED FINISH (CONT'D)						
	<i>Per kg</i>	A \$				
10288	Take down and clear away any of the above sections (Items 10275 to 10287 inclusive).....	18.40				10288
10289	Take down and set aside for re-use ditto (ditto).....	21.10				10289
ALUMINIUM WINDOWS AND DOORS						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
10290	Clear anodized finish extruded section in aluminium windows.....	470.10	23.80	24.60	49.10	10290
10291	Extra over ditto for openable portions.....	230.90	-	-	-	10291
10292	Clear anodized finish extruded section in aluminium doors.....	347.40	21.80	22.10	44.20	10292
10293	Extra over ditto for openable portions.....	186.30	-	-	-	10293
	Add to either of Items 10290 to 10293 inclusive for the supply of bronze anodized aluminium sections in lieu of clear anodized aluminium sections.....	5%				
	Add to either of Items 10290 to 10293 inclusive for the supply of black anodized aluminium sections in lieu of clear anodized aluminium sections.....	10%				
	Add to either of Items 10290 to 10293 inclusive for the supply of powder coated aluminium sections in lieu of clear anodized aluminium sections.....	15%				
REPAIRS TO ALUMINIUM WINDOWS AND DOORS						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per kg</i>	A \$	B \$	C \$	D \$	
10294	Clear anodised finish extruded section in window and door frames, mullions, transoms, glazing beads and the like.....	71.30	25.40	30.70	40.90	10294
	<i>Per linear metre</i>					
10295	Positive pressure neoprene gasket seal.....	11.30	0.80	1.10	2.70	10295
10296	Neoprene wiping primary seal.....	17.60	0.80	1.10	2.70	10296
10297	Glazing gasket hand to glazier for fixing.....	8.60	-	-	-	10297
	<i>Each</i>					
10298	Ease, oil and adjust existing opening casements of any size.....	7.30	-	-	-	10298

Item	REPAIRS TO ALUMINIUM WINDOWS AND DOORS (CONT'D)	Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only	Item
		Aluminum or zinc alloy	Stainless steel				
		A	B				
	<i>Each</i>	\$	\$	\$	\$	\$	
10309	Cam catch.....	27.20	42.00	2.60	3.90	9.90	10309
10310	Mortice lock with brass dead bolt and spring bolt, striking plate and four lever mechanism including labelling keys.....	151.80	-	21.90	29.20	72.80	10310
10311	Set of lever handle furniture.....	61.40	94.00	6.60	8.80	21.90	10311
10312	Mortice lock with brass expanding claw bolt for sliding door and flush furniture.....	160.00	231.60	21.90	29.20	73.10	10312
10313	Casement fastener with 115 mm handle and standard wedge plate.....	38.60	44.50	8.80	11.00	21.90	10313
10314	Two throw ditto with steel connecting rod.....	80.90	110.50	17.60	21.90	43.90	10314
10315	Through-the-frame type casement fastener.....	58.90	69.40	11.70	14.60	29.20	10315
10316	Two throw ditto with steel connecting rod.....	110.50	166.10	17.60	21.90	43.90	10316
10317	250 mm Casement stay of sliding bar type.....	54.60	61.90	5.30	6.60	13.10	10317
10318	300 mm Ditto.....	58.80	66.60	5.40	6.70	13.40	10318
10319	200 mm Casement stay with two stud pins	30.40	33.50	5.30	6.60	13.10	10319
10320	250 mm Ditto.....	32.50	35.80	5.40	6.70	13.40	10320
10321	300 mm Ditto.....	34.50	38.10	5.60	6.90	13.70	10321
10322	Set of adjustable rollers to suit sliding windows including all necessary guide, etc.....	116.70	-	14.60	20.00	50.00	10322
10323	Ditto but for sliding door.....	138.90	-	15.40	21.10	52.50	10323
10324	100 mm Pull handle.....	26.90	42.30	3.40	4.20	8.30	10324
10325	100 mm Flush pull handle.....	34.80	55.30	3.50	4.40	10.10	10325

Item	BRASS					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Per kg</i>					
10326	Casting, trimmed from mould, rough filed, drilled and countersunk as required.....	100.90	5.30	6.10	13.70	10326
10327	Ditto but fine filed, buffed and polished, drilled and countersunk, turned, threaded and brazed as required	105.50	5.30	6.10	13.70	10327
10328	Strip set in screed or paving as dividing strip.....	108.60	5.00	6.10	12.30	10328
10329	Ditto but bent in addition at expansion joints.....	129.00	5.00	6.10	13.40	10329
10330	Flat or formed sheet covering.....	113.20	5.00	6.10	12.30	10330
10331	Sheet covering to roofs, domes, etc., including all rolls, welts, flashings and the like.....	131.00	11.80	14.90	30.10	10331
10332	Sheet as pipes, gutters, hoods, chimney cowls, roof plates and the like.....	131.60	12.30	15.40	30.70	10332
10333	Sheet as square or rectangular tanks, storage cisterns, etc., including all stiffeners, corner plates and covers.....	131.00	11.80	14.90	30.10	10333
10334	Ventilator formed to detail (gross weight measured).....	128.10	10.80	13.60	27.20	10334
	COPPER					
	<i>Per kg</i>					
10335	Casting, trimmed from mould, rough filed, drilled and countersunk as required, including making pattern and preparing mould	133.50	5.30	6.10	13.70	10335
10336	Ditto but fine filed, buffed and polished, drilled and countersunk, turned, threaded and brazed as required	139.80	5.30	6.10	13.70	10336
10337	Flat or formed sheet covering.....	150.90	5.00	6.10	12.30	10337
10338	Sheet covering to roofs, domes, etc., including all rolls, welts, flashings and the like.....	168.70	11.80	14.90	30.10	10338
10339	Sheet as pipes, gutters, hoods, chimney cowls, roof plates and the like.....	169.30	12.30	15.40	30.70	10339
10340	Sheet as square or rectangular tanks, storage cisterns, etc., including all stiffeners, corner plates and covers.....	168.70	11.80	14.90	30.10	10340
10341	Ventilator formed to detail (gross weight measured).....	165.80	10.80	13.60	27.20	10341
	GUNMETAL					
	<i>Per kg</i>					
10342	Casting, trimmed from mould, rough filed, drilled and countersunk as required, including making pattern and preparing mould.....	192.50	4.70	8.30	23.70	10342
10343	Ditto but fine filed, buffed and polished, drilled and countersunk, turned, threaded and brazed as required.....	216.20	9.50	16.50	47.40	10343

Item	ROLLER SHUTTERS					Item
	Supply and fix manually operated roller shutters to suit any structural opening by an approved roller shutter manufacturer : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
10344	Galvanised mild steel rolling shutter Type K2 or B2.....	1,092.10	194.20	255.20	510.40	10344
10345	Extra over for wicket door.....	1,388.70	-	-	-	10345
10346	Stainless steel rolling shutter, Finish No. 4 - polished with fine grit or hair line finish.....	2,901.10	194.20	255.20	510.40	10346
10347	Extra over for wicket door.....	2,214.50	-	-	-	10347
10348	Stainless steel rolling shutter, Finish No. 8 - mirror finish.....	3,423.00	194.20	255.20	510.40	10348
10349	Extra over for wicket door.....	2,520.00	-	-	-	10349
10350	Stainless steel link grilles shutters Type 12F.....	2,514.30	194.20	255.20	510.40	10350
10351	Stainless steel semi-grilles shutters, Finish No. 4 - polished with fine grit or hair line finish.....	2,707.70	194.20	255.20	510.40	10351
10352	Ditto but Finish No. 8 - mirror finish.....	3,181.20	194.20	255.20	510.40	10352
10353	Aluminium rolling shutters Type OEC2 or EK2, clear anodised.....	1,608.50	194.20	255.20	510.40	10353
10354	Extra over for wicket door.....	2,989.60	-	-	-	10354
10355	Aluminium rolling shutters Type OEC2 or EK2, bronze anodised.....	1,707.90	194.20	255.20	510.40	10355
10356	Extra over for wicket door.....	3,176.40	-	-	-	10356
10357	Aluminium link grilles shutters Type 12F.....	1,754.70	194.20	255.20	510.40	10357
10358	Aluminium semi-grilles shutters, clear anodised.....	1,901.00	194.20	255.20	510.40	10358
10359	Ditto but bronze anodised.....	2,029.60	194.20	255.20	510.40	10359
	Supply and fix electrically operated roller shutters to suit any structural opening by an approved roller shutter manufacturer (power supply measured separately) : - Per square metre.....					
10360	Galvanised mild steel rolling shutter Type K2 or B2.....	1,820.10	242.80	319.00	638.00	10360
10361	Extra over for wicket door.....	1,388.70	-	-	-	10361

Item	ROLLER SHUTTERS (CONT'D)				Item	
	Supply and fix electrically operated roller shutters to suit any structural opening by an approved roller shutter manufacturer (power supply measured separately) : - (cont'd)	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
10362	Stainless steel rolling shutter, Finish No. 4 - polished with fine grit or hair line finish.....	4,254.90	242.80	319.00	638.00	10362
10363	Extra over for wicket door.....	2,214.50	-	-	-	10363
10364	Stainless steel rolling shutter, Finish No. 8 - mirror finish.....	4,696.50	242.80	319.00	638.00	10364
10365	Extra over for wicket door.....	2,520.00	-	-	-	10365
10366	Stainless steel link grilles shutters Type 12F.....	3,481.30	242.80	319.00	638.00	10366
10367	Stainless steel semi-grilles shutters, Finish No. 4 - polished with fine grit or hair line finish.....	3,674.70	242.80	319.00	638.00	10367
10368	Ditto but Finish No. 8 - mirror finish.....	4,037.10	242.80	319.00	638.00	10368
10369	Aluminium rolling shutters Type OEC2 or EK2, clear anodised.....	2,339.60	242.80	319.00	638.00	10369
10370	Extra over for wicket door.....	2,989.60	-	-	-	10370
10371	Aluminium rolling shutters Type OEC2 or EK2, bronze anodised.....	2,496.70	242.80	319.00	638.00	10371
10372	Extra over for wicket door.....	3,176.40	-	-	-	10372
10373	Aluminium link grilles shutters Type 12F.....	2,488.40	242.80	319.00	638.00	10373
10374	Aluminium semi-grilles shutters, clear anodised.....	2,684.00	242.80	319.00	638.00	10374
10375	Ditto but bronze anodised.....	2,875.50	242.80	319.00	638.00	10375
	TRANSPARENT SHUTTERS					
	Supply and fix "Euro Look" crystal - clear transparent manually operated shutters : -					
	<i>Per square metre</i>					
10376	Transparent shutter.....	3,383.90	263.70	364.00	606.60	10376
10377	Extra over for wicket door.....	5,291.20	-	-	-	10377
	Supply and fix "Dynamic Vision" crystal - clear transparent manually operated shutters : -					
	<i>Per square metre</i>					
10378	Transparent shutter.....	2,707.10	263.70	364.00	606.60	10378
10379	Extra over for wicket door.....	5,168.10	-	-	-	10379

Item	SUNDRIES FOR SHUTTERS					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per linear metre</i>					
10380	Shutter hood, galvanised mild steel including access door and all necessary ironmongery.....	800.80	263.70	364.00	606.60	10380
10381	Ditto but stainless steel, hair line finish.....	4,436.00	263.70	364.00	606.60	10381
10382	Ditto but stainless steel, mirror face finish.....	5,054.90	263.70	364.00	606.60	10382
10383	Ditto but aluminium, clear anodised.....	1,849.50	263.70	364.00	606.60	10383
10384	Ditto but aluminium, bronze anodised.....	2,068.90	263.70	364.00	606.60	10384
10385	Typhoon shutter guide with locking device.....	442.70	52.80	72.80	121.30	10385
	Replacement parts : -					
	<i>Per set</i>					
10386	Lock and malleable iron shoot bolts.....	309.00	14.90	17.90	44.70	10386
	<i>Per square metre</i>					
10387	Slat for galvanised mild steel rolling shutter Type K2 or B2.....	720.80	128.20	168.40	336.90	10387
10388	Slat for stainless steel rolling shutter, Finish No. 4 - polished with fine grit or hair line finish.....	1,914.70	128.20	168.40	336.90	10388
10389	Slat for stainless steel rolling shutter, Finish No. 8 - mirror finish.....	2,259.20	128.20	168.40	336.90	10389
10390	Slat for stainless steel link grilles shutters Type 12F.....	1,659.40	128.20	168.40	336.90	10390
10391	Slat for stainless steel semi-grilles shutters, Finish No. 4 - polished with fine grit or hair line finish.....	1,787.10	128.20	168.40	336.90	10391
10392	Ditto but Finish No. 8 - mirror finish.....	2,099.60	128.20	168.40	336.90	10392
10393	Slat for aluminium rolling shutters Type OEC2 or EK2, clear anodised.....	1,061.60	128.20	168.40	336.90	10393
10394	Slat for aluminium rolling shutters Type OEC2 or EK2, bronze anodised.....	1,127.20	128.20	168.40	336.90	10394
10395	Slat for aluminium link grilles shutters Type 12F.....	1,158.10	128.20	168.40	336.90	10395
10396	Slat for aluminium semi-grilles shutters, clear anodised.....	1,254.60	128.20	168.40	336.90	10396
10397	Ditto but bronze anodised.....	1,339.50	128.20	168.40	336.90	10397

Item	METAL LOUVRE FRAMES	Supply and fix		Item		
		Galvan-ized steel with alumin-ium lacquer or stove baked enamel finish	Plain or anodized alumin-ium			
		A	B			
		\$	\$			
	Metal adjustable louvre frames complete with clips, operating handle, etc., and all necessary mullion coupling clips and spacers for 100, 150, or 225 mm glass blades (measured separately), including any assembling, screwing to wood, plugging and screwing to concrete, brick, stone or other jamb or coupled to form mullion, and bedding with and including providing mastic in accordance with the manufacturer's instructions : -					
	Set of two metal adjustable louvre frames complete with clips for glass, operating handle, etc., and any necessary mullion coupling clips and spacers : -					
	<i>Per set</i>					
10398	Set of two frames with clips for three 100 mm wide glass blades (285 mm Overall height).....	199.20	272.60	10398		
10399	Add to Item 10398 for each additional clip (each additional 90 mm in overall height).....	36.10	58.10	10399		
10400	Set of two frames with clips for two 150 mm wide glass blades (300 mm Overall height).....	217.30	297.10	10400		
10401	Add to Item 10400 for each additional clip (each additional 140 mm in overall height).....	64.60	101.90	10401		
10402	Set of two frames with clips for two 225 mm wide glass blades (440 mm Overall height).....	273.70	414.10	10402		
10403	Add to Item 10402 for each additional clip (each additional 200 mm in overall height).....	88.60	152.50	10403		
	<i>Per linear metre</i>					
10404	Top weather strip to louvres.....	49.90	65.70	10404		
10405	Bottom ditto.....	50.80	65.70	10405		
		Take down and clear away	Take down and set aside for re-use	Fix only		
		A	B	C		
		\$	\$	\$		
10406	Set of two frames with clips as above described (net height of each set of two frames measured).....	15.80	31.60	78.90	10406	
10407	Top or bottom weather strip.....	3.50	7.00	17.60	10407	
	SLOTTED ANGLE	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	Approved slotted steel angle, rust protected and stove enamelled, fixed complete and including all cutting, fitting, supplying and fixing screws, bolts, nuts, washers, corner stiffeners and rubber pads, plugging to concrete, brick, stone or other surfaces and making good : -					
	<i>Per linear metre</i>	A	B	C	D	
		\$	\$	\$	\$	
10408	36 x 36 x 1.80 mm Slotted angle section in brackets, shelving racks, stands and the like.....	45.20	4.40	8.80	21.90	10408
10409	40 x 40 x 2.00 mm Ditto.....	49.40	4.40	8.80	21.90	10409
10410	62 x 41 x 2.00 mm Ditto.....	51.90	4.40	8.80	21.90	10410
10411	66 x 45 x 2.50 mm Ditto.....	61.90	4.40	8.80	21.90	10411

Item	STEEL NETTING, MESH AND EXPANDED METAL										Item
			Supply and fix					Take down and clear away	Take down and set aside for re-use	Fix only	
		Wire (mm)	0.80	1.00	1.00	1.00	1.12				
		Mesh (mm)	15	25	30	40	50				
	<i>Per square metre</i>	A	B	C	D	E	F	G	H		
		\$	\$	\$	\$	\$	\$	\$	\$	\$	
10412	Galvanized iron wire netting lapped 75 mm at joints and bedded in floor screeds, paving, etc.....	10.00	12.70	12.10	10.90	9.80	-	-	5.80	10412	
10413	Ditto but fixed to walls, wall lining or other vertical surfaces as key for plaster or screed.....	12.10	15.10	14.40	13.10	11.90	-	-	7.60	10413	
10414	Ditto but fixed to soffits, or sides and soffits of beams as key for plaster or screeds.....	13.30	16.20	15.60	14.30	13.10	-	-	8.80	10414	
10415	Ditto but fixed to timber, concrete or steel posts or framing (measured separately) in fencing, gates, shelving, grilles, panels and the like	16.20	19.20	18.50	17.20	16.00	2.90	5.80	11.70	10415	
			Supply and fix					Take down and clear away	Take down and set aside for re-use	Fix only	
			Straight lattice mesh				Diamond mesh				
		Wire (mm)	1.40	1.80	2.24	2.50	1.60	2.00	2.50		
		Mesh (mm)	5	10	13	16	25	30	40		
	<i>Per square metre</i>	A	B	C	D	E	F	G	H	I	J
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
10416	Galvanized steel wire woven mesh fixed to timber, concrete or steel posts or framing (measured separately) in fencing, gates, shelving, grilles, panels and the like.....	66.40	63.40	61.00	58.00	35.40	36.90	39.80	3.70	7.30	17.30
			Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only		
		Wire (mm)	1.20	1.20	1.20	1.50					
		Mesh (mm)	12 x 12	12 x 25	25 x 25	50 x 50					
	<i>Per square metre</i>	A	B	C	D	E	F	G			
		\$	\$	\$	\$	\$	\$	\$	\$		
10417	Approved galvanized welded steel wire mesh fixed to timber or steel posts or framing (measured separately) in fencing, gates, shelving, racks, screens, window guards, etc., including all galvanized staples, screws, typing wire and the like (measured net).....	41.70	34.60	26.80	23.30	2.90	5.80	11.70	10417		

Item	STEEL NETTING, MESH AND EXPANDED METAL (CONT'D)								Item	
			Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only	
	Weldmesh Ref.	1312	1310	31	31A					
	Wire (mm)	2.50 x 2.50	3.15 x 3.15	5.30 x 3.15	4.00 x 4.00					
	Mesh (mm)	25 x 75	25 x 75	25 x 75	75 x 75					
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	E \$	F \$	G \$		
10418	"Weldmesh" steel wire mesh fixed to timber, concrete or steel post framing (measured separately) in fencing, gates, shelving, grilles, panels and the like.....	37.70	41.50	38.60	41.50	2.90	5.80	11.70	10418	
10419	Ditto but galvanized.....	39.30	42.90	39.90	42.90	2.90	5.80	11.70	10419	
						Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>					A \$	B \$	C \$	D \$	
10420	Plastic dipped metal netting fixed to timber, concrete or steel posts or framing (measured separately) in fencing, gates, shelving, grilles, panels and the like.....	168.20	2.90	5.80	11.70				10420	
			Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only	
	Mesh (mm)	10	22	25	34	50	76			
	Weight (kg/m ²)	1.60	1.95	2.22	2.00	3.11	3.80			
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$
10421	Approved expanded metal fixed to timber, concrete, or steel post framing (measured separately) in fencing gates, shelving, grilles, panels and the like (measured net).....	67.90	79.30	104.20	86.20	116.20	116.20	3.70	6.60	15.60
10422	Ditto but galvanised.....	90.30	106.70	142.20	116.40	159.20	159.20	3.70	6.60	15.60

Item	STEEL NETTING, MESH AND EXPANDED METAL (CONT'D)										Item			
				Supply and fix			Take down and clear away	Take down and set aside for re-use	Fix only					
			Mesh (mm)	77 x 34	30.48 x 13	38.10 x 16.93								
			Weight (kg/m ²)	5.91	7.38	12								
				A	B	C	D	E	F					
				\$	\$	\$	\$	\$	\$					
10423	<i>Per square metre</i>													
	Proprietary expanded metal for security fencing with hot dip galvanised finish complied to BS EN ISO 1461:1999.....										10423			
				271.40	278.60	350.40	3.70	6.60	15.60					
				Supply and fix					Take down and clear away	Take down and set aside for re-use	Fix only			
			Wire (mm)	2.50	3.00	3.00	3.00	4.00						
			Mesh (mm)	40	75	50	40	50						
				A	B	C	D	E	F	G	H			
				\$	\$	\$	\$	\$	\$	\$	\$			
10424	<i>Per square metre</i>													
	Stainless steel chain link fixed to concrete, timber or steel posts or framing (measured separately) in fencing, gates, etc.										10424			
				150.70	153.30	156.00	158.70	161.30	2.60	5.30	11.30			
10425	Ditto but galvanised steel chain link.....										10425			
				37.70	39.20	45.90	50.50	63.80	2.60	5.30	11.30			
				Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only				
			Wire (mm)	3.00	3.00	2.50	2.50							
			Mesh (mm)	75	50	40	25							
				A	B	C	D	E	F	G				
				\$	\$	\$	\$	\$	\$	\$				
10426	<i>Per square metre</i>													
	P.V.C. coated galvanised steel chain link fixed to timber, concrete or steel posts or framing (measured separately) in fencing, gates and the like										10426			
				71.90	95.80	82.50	117.00	2.60	5.30	11.30				

Item	BARBED WIRE OR TAPE					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per linear metre</i>					
10427	Proprietary stainless steel razor barbed wire fence top and steel posts with any diameter coils including all necessary stainless steel wire (measured straight).....	24.40	2.50	4.80	12.60	10427
10428	Proprietary stainless steel barbed wire fence top and steel posts with any diameter coils including all necessary stainless steel wire (measured straight).....	22.80	2.50	4.80	12.60	10428
10429	Galvanised barbed wire formed from 2 strands of 2.5 mm mild steel line wires and 2 mm mild steel pointed wires with set of two barbs at 125 mm centres, strained tight and fixed to fence top and steel posts including all necessary tying wire, staples and the like (measured straight).....	5.20	0.60	1.20	3.40	10429
10430	Ditto but with sets of four barbs at 75 mm centre (measured straight).....	5.50	0.60	1.20	3.40	10430
10431	Extra over either of Items 10429 to 10430 inclusive for forming into coils of any diameter.....	4.40	-	-	4.40	10431
10432	Extra over either of Items 10429 to 10430 inclusive for hand weaving into woven mat.....	4.40	-	-	4.40	10432
	FIXING BOLTS FOR SECURITY FENCING					
	<i>Each</i>					
10433	Fixing bolt with shear nuts and washers 6 mm diameter.....	11.40	1.90	2.50	5.00	10433
10434	Ditto but 8 mm diameter.....	13.30	1.90	2.50	5.00	10434
10435	Ditto but 10 mm diameter.....	16.20	2.40	2.90	5.80	10435
10436	Ditto but 12 mm diameter.....	18.80	2.40	2.90	5.80	10436
10437	Ditto but 16 mm diameter.....	25.90	2.60	3.40	6.60	10437
10438	U-bolt, hot dip galvanized with clamp plate and security shear nut.....	48.80	2.60	3.40	6.60	10438
	GALVANIZING, ELECTRO-PLATING AND CHROMIUM PLATING					
	<i>Each</i>					
		Zinc sprayed	Electro plated	Hot dipped	Chromium plated	
		A	B	C	D	
		\$	\$	\$	\$	
10439	Steel or cast iron articles complete with nuts, bolts or other fixing accessories, n.e. 1 kg each in total weight.....	7.50	8.40	9.50	21.50	10439
10440	Ditto but brass or copper articles.....	-	-	-	17.80	10440
	<i>Per kg</i>					
10441	Steel or cast iron articles complete with nuts, bolts or other fixing accessories, 1 - 13 kg each in total weight.....	5.40	6.10	6.90	19.10	10441
10442	Ditto but exceeding 13 kg ditto.....	2.80	3.10	3.50	9.80	10442

Item	PROPRIETARY FIRE PROTECTION ENCLOSURE AND CEILING							Item	
	Supply and install "Cape" fire protection enclosure and ceiling system, complete with fire resisting boarding/material to all exposed surfaces, steel framings, insulation, and all necessary accessories in accordance with the manufacturer's recommendations and complying with BS 476:Parts 20-24 : -							A \$	
	<i>Per square metre</i>								
10443	Fire protection enclosure, "Durasteel" series, 1 hour fire rate period (finishes measured separately).....							1,636.60	10443
10444	Ditto but 2 hours fire rate period (ditto).....							1,704.20	10444
10445	Ditto but 4 hours fire rate period (ditto).....							1,796.50	10445
10446	Fire protection enclosure, "Supalux" series, 1 hour fire rate period (finishes measured separately).....							905.60	10446
10447	Ditto but 2 hours fire rate period (ditto).....							1,280.00	10447
10448	Fire protection enclosure, "Monolux" series, 4 hour fire rate period (finishes measured separately).....							1,340.30	10448
	Supply and install "Promatect" fire protection enclosure and ceiling system, complete with fire resisting boarding/material to all exposed surfaces, steel framings, insulation, and all necessary accessories in accordance with the manufacturer's recommendations and complying with BS 476:Parts 20-24 : -								
	<i>Per square metre</i>								
10449	Fire protection enclosure, "Promatect H Board" series, 1 hour fire rate period (finishes measured separately).....							905.60	10449
10450	Ditto but 2 hours fire rate period (ditto).....							1,267.90	10450
10451	Ditto but 4 hours fire rate period (ditto).....							1,509.40	10451
10452	Fire protection enclosure, "Promatect S Board" series, 1 hour fire rate period (finishes measured separately).....							1,690.50	10452
10453	Ditto but 2 hours fire rate period (ditto).....							1,690.50	10453
10454	Ditto but 4 hours fire rate period (ditto).....							1,932.00	10454
10455	Take down and clear away any type of fire protection enclosure or ceiling system.....							113.10	10455
	PROPRIETARY FIRE RESISTING DOOR SET								
	Approved galvanised mild steel fire resisting door and frame of fire rated period tested in accordance with BS 476:Parts 20-23 and Health and Safety at Work etc. Act 1974 including door frames and any finish : -								
	<i>Per square metre</i> (Door size measured)								
	Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only		
	Fire rated period								
	1/2 hour	1 hour	2 hours	4 hours					
	A \$	B \$	C \$	D \$	E \$	F \$	G \$		
10456	Fire resisting door, single leaf.....				35.10	43.90	87.70	10456	
10457	Fire resisting door, double leaf.....				28.10	35.10	70.20	10457	
	<i>Per linear metre</i>								
10458	Proprietary fire and smoke seals, tested in accordance with BS 476:Parts 20/22 and BS 476-31.1:1983 including any finish.....				2.00	3.40	8.40	10458	
	<i>Each</i>								
					Fire rated period				
					1/2 hour	1 hour	2 hours	4 hours	
					A \$	B \$	C \$	D \$	
10459	Extra over either of Items 10456 to 10457 inclusive for forming observation panel n.e. 0.10m ²				229.40	229.40	265.70	398.50	10459
10460	Ditto but 0.10 - 0.20 m ²				573.60	573.60	664.10	996.20	10460
10461	Ditto but 0.20 - 0.40 m ²				917.70	917.70	1,062.60	1,593.90	10461

Item	PROPRIETARY FIRE RESISTING DOOR SET (CONT'D)							Item				
	Approved stainless steel fire resisting door and frame of fire rated period tested in accordance with BS 476:Parts 20-23 and Health and Safety at Works etc. Act 1974 including door frames and any finish :-				Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only			
					Fire rated period							
					½ hour	1 hour	2 hours	4 hours				
	<i>Per square metre</i> (Door size measured)				A \$	B \$	C \$	D \$	E \$	F \$	G \$	
10462	Fire resisting door, single leaf.....				6,520.50	6,882.80	6,882.80	9,832.50	35.10	43.90	87.70	10462
10463	Fire resisting door, double leaf.....				6,254.90	6,568.80	6,568.80	9,384.00	28.10	35.10	70.20	10463
	<i>Per linear metre</i>											
10464	Proprietary fire and smoke seals, tested in accordance with BS 476 : Parts 20/22 and BS 476-31.1:1983 including any finish.....				160.60	160.60	160.60	160.60	2.00	3.40	8.40	10464
					Fire rated period							
					½ hour	1 hour	2 hours	4 hours				
	<i>Each</i>				A \$	B \$	C \$	D \$				
10465	Extra over either of Items 10462 to 10463 inclusive for forming observation panel n.e. 0.10m².....							229.40	229.40	265.70	398.50	10465
10466	Ditto but 0.10 - 0.20 m².....							573.60	573.60	664.10	996.20	10466
10467	Ditto but 0.20 - 0.40 m².....							917.70	917.70	1,062.60	1,593.90	10467
					Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only			
	Approved fire resisting glazed doors to BS 476:Parts 20-23 comprising fire resisting clear tempered glass panels and mirror finished stainless steel door frames :-				A \$	B \$	C \$	D \$				
	<i>Per square metre</i>											
10468	Single leaf door, one hour fire rated period with fire resisting clear tempered glass panels.....				6,767.80				22.30	22.50	45.00	10468
10469	Ditto but double leaf door.....				7,260.00				20.40	20.20	40.50	10469
10470	Single leaf door, 2 hours fire rated period with fire resisting clear tempered glass panels.....				10,951.50				24.10	24.80	49.50	10470
10471	Ditto but double leaf door.....				11,747.90				22.10	22.30	44.50	10471
	PROPRIETARY FIRE RESISTING PARTITIONS											
	Supply and install fire resisting glazed partition comprising fire resisting glass panels, galvanised mild steel frames, stainless steel beads and cladded with stainless steel facing in any finish :-											
	<i>Per square metre</i>											
10472	Approved glazed partition with 6 mm thick fire resisting clear tempered glass with one hour fire rated period.....				1,543.00				55.50	85.10	170.10	10472
10473	Ditto but with 12 mm thick fire resisting clear tempered glass with one hour fire rated period.....				1,800.20				64.70	99.20	198.50	10473

Item	PROPRIETARY FIRE RESISTING PARTITIONS (CONT'D)					Item
	Supply and install "James Hardie" Villaboard fire resisting partition wall system comprising "Studeo" metal framing, Fix X gypsum board and Villaboard on both sides and seal up head and bottom and joint with tape and compound in accordance with manufacturer's instructions : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
10474	Fire resisting partition wall, 1 hour fire rated period.....	312.20	41.60	54.70	109.20	10474
10475	Ditto, but 2 hours fire rated period.....	386.50	41.60	54.70	109.20	10475
	Supply and install "Cape" fire resisting partition system, complete with steel framings, insulation, and all necessary accessories in accordance with the manufacturer's recommendations and complying with BS 476: Parts 20-24 : -					
	<i>Per square metre</i>					
10476	Fire resisting partition , "Durasteel" series, 1 hour fire rate period (finishes measured separately).....	1,599.70	77.60	118.90	237.80	10476
10477	Ditto but 2 hours fire rate period (ditto).....	1,661.20	77.60	118.90	237.80	10477
10478	Ditto but 4 hours fire rate period (ditto).....	1,722.70	77.60	118.90	237.80	10478
10479	Fire resisting partition, "Supalux" series, 1 hour fire rate period (finishes measured separately).....	953.60	98.40	123.10	307.60	10479
10480	Ditto but 2 hours fire rate period (ditto).....	1,107.50	98.40	123.10	307.60	10480
10481	Ditto but 4 hours fire rate period (ditto).....	1,384.30	98.40	123.10	307.60	10481
	Supply and install "Promatect" fire resisting partition system, complete with steel framings, insulation and all necessary accessories in accordance with the manufacturer's recommendations and complying with BS 476 : Parts 20-24 : -					
	<i>Per square metre</i>					
10482	Fire resisting partition, "Promatect H Board" series, 1 hour fire rate period, with or without lining (finishes measured separately).....	922.90	98.40	123.10	307.60	10482
10483	Ditto but 2 hours fire rate period (ditto).....	1,292.00	98.40	123.10	307.60	10483
10484	Ditto but 4 hours fire rate period (ditto).....	1,538.10	98.40	123.10	307.60	10484
10485	Fire resisting partition, "Promatect S Board" series, 1 hour fire rate period, with or without lining (finishes measured separately).....	1,722.70	98.40	123.10	307.60	10485
10486	Ditto but 2 hours fire rate period (ditto).....	1,722.70	98.40	123.10	307.60	10486
10487	Ditto but 4 hours fire rate period (ditto).....	1,968.80	98.40	123.10	307.60	10487
	PROPRIETARY FIRE RESISTING DROP SHUTTER					
	Approved fire resisting drop shutter, 4 hours fire rated period tested in accordance with BS 476 : Parts 20 - 24 (power supply measured separated) : -					
	<i>Per square metre</i>					
10488	Drop shutter.....	6,854.20	131.60	160.80	438.50	10488

Item	PROPRIETARY FIRE RESISTING LOUVRE				Item		
	Approved fire resisting louvre, 2 hours fire rated period in compliance with the British Standard (power supply measured separated) : -						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only		
		A \$	B \$	C \$	D \$		
10489	"Lorient" fire resisting louvre, 2 hours fire rated period, model no. : LV-44.....	9,789.10	131.60	160.80	438.50	10489	
	PROPRIETARY FIRE RESISTING ROLLING SHUTTER						
	Approved fire resisting rolling shutter tested in accordance with BS 476 : Parts 20 - 24 (power supply measured separated) : -						
		Supply and fix		Take down and clear away	Take down and set aside for re-use	Fix only	
		Fire rated period					
		1 hour	2 hours				
		A \$	B \$	C \$	D \$	E \$	
10490	Fire resisting roller shutter, GMS, manually operated.....	1,723.80	1,737.20	194.20	255.20	510.40	10490
10491	Fire resisting roller shutter, GMS, electrically operated.....	2,579.50	2,592.90	242.80	319.00	638.00	10491
10492	Fire resisting roller shutter, stainless steel, manually operated.....	3,552.70	4,024.90	194.20	255.20	510.40	10492
10493	Fire resisting roller shutter, stainless steel, electrically operated.....	5,201.50	5,909.80	242.80	319.00	638.00	10493
	CURTAIN WALLS						
	Design, supply, fabricate and install glazed/unglazed aluminium curtain wall including framing components and sub-frames : -						
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only		
		A \$	B \$	C \$	D \$		
10494	Aluminium curtain wall.....	1,857.50	227.00	445.60	1,114.00	10494	
10495	Ditto but circular on plan.....	2,167.10	243.40	478.30	1,195.80	10495	
10496	Extra over either of Items 10494 to 10495 inclusive for openable portion.....	147.70	17.80	41.00	81.90	10496	
10497	Extra over either of Items 10494 to 10495 inclusive for louvres.....	330.20	35.60	81.90	163.80	10497	
	Design, supply, fabricate and install glazed/unglazed stainless steel curtain wall including framing components and sub-frames : -						
10498	Stainless steel curtain wall.....	2,848.20	218.00	401.00	1,002.60	10498	
10499	Ditto but circular on plan.....	3,286.40	234.00	430.50	1,076.20	10499	
10500	Extra over either of Items 10498 to 10499 inclusive for openable portion.....	221.60	28.80	61.40	122.90	10500	
10501	Extra over either of Items 10498 to 10499 inclusive for louvres.....	455.00	45.20	102.40	204.80	10501	

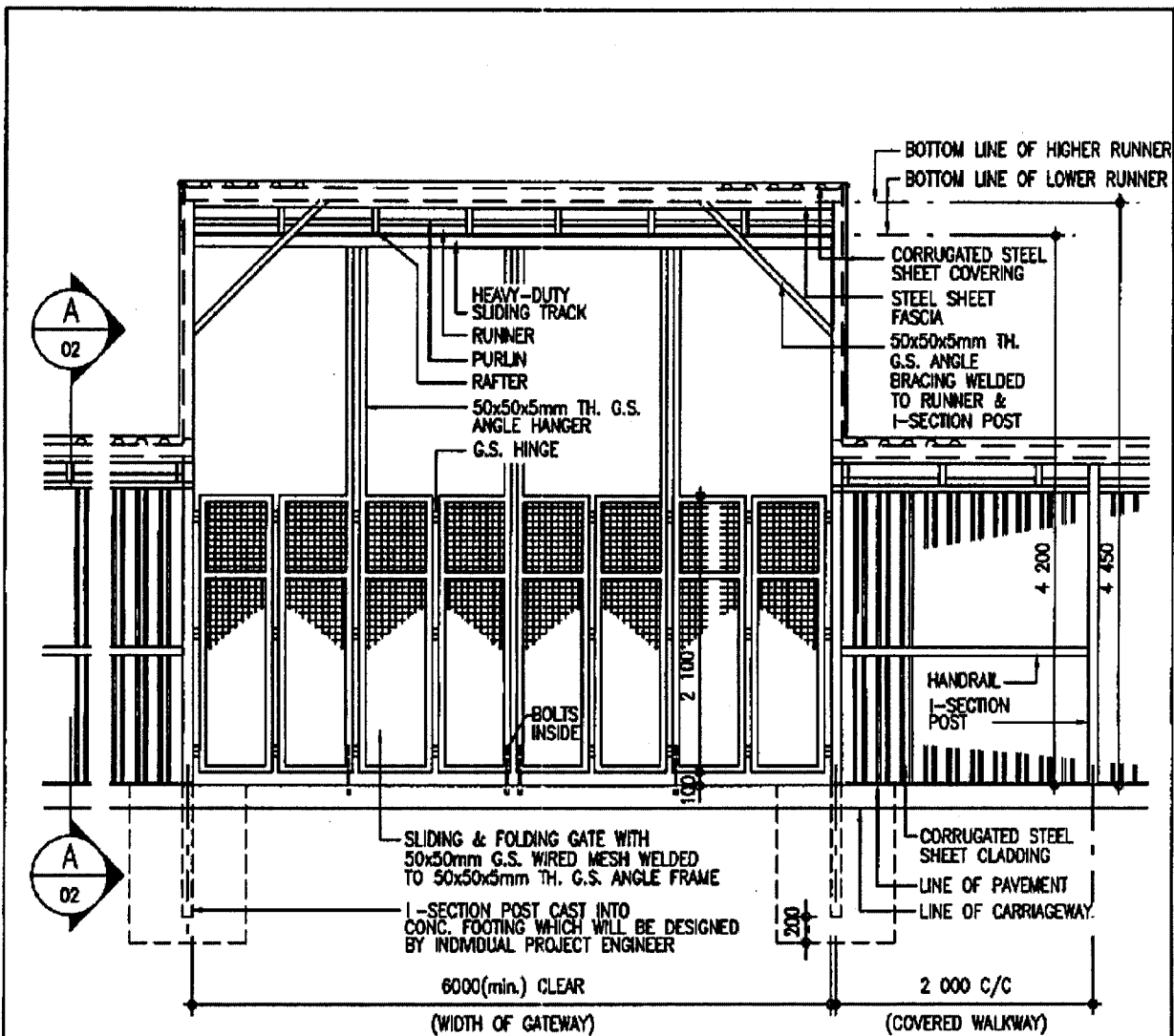
Item	SOLID ALUMINIUM WALL CLADDING				Item	
	Design, supply, fabricate and install 3 mm thick (minimum) aluminium composite wall cladding of Asian origin (other than Japan) including galvanised sub-frames in accordance with the manufacturer's instructions : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
10502	Cladding to internal wall.....	1,430.90	227.60	403.10	524.00	10502
10503	Ditto but circular on plan.....	1,501.40	239.40	440.30	565.90	10503
10504	Cladding to external wall.....	1,529.40	242.80	431.00	559.70	10504
10505	Ditto but circular on plan.....	1,604.80	256.20	469.80	604.70	10505
	Add to either of Items 10502(A) to 10505(A) inclusive for composite wall cladding of Japan origin.....	15 %	-	-	-	
	Add to either of Items 10502(A) to 10505(A) inclusive for composite wall cladding of European, American or Australian origin.....	20%	-	-	-	
	COMPOSITE ALUMINIUM WALL CLADDING					
	Design, supply, fabricate and install 4 mm thick aluminium composite wall cladding of Asian origin (other than Japan) including galvanised sub-frames in accordance with the manufacturer's instructions : -					
	<i>Per square metre</i>					
10506	Cladding to internal wall.....	1,791.60	227.60	403.10	561.30	10506
10507	Ditto but circular on plan.....	1,879.90	239.40	440.30	609.30	10507
10508	Cladding to external wall.....	1,929.40	242.80	431.00	601.60	10508
10509	Ditto but circular on plan.....	2,029.10	256.20	469.80	652.70	10509
	Add to either of Items 10506(A) to 10509(A) inclusive for composite wall cladding of Japan origin.....	15 %	-	-	-	
	Add to either of Items 10506(A) to 10509(A) inclusive for composite wall cladding of European, American or Australian origin.....	20%	-	-	-	
	AUTOMATIC SWING AND SLIDING DOORS					
	Supply and fix "Besam" automatic swing door system in accordance with the manufacturer's instructions comprising clear tempered glass panels and mirror finished stainless steel door frames (power supply measured separately) : -					
	<i>Per square metre</i>					
10510	Automatic swing door, single leaf door with 6 mm thick clear tempered glass panels (operator model : OPB-1).....	9,632.20	214.10	492.40	984.80	10510
10511	Ditto but double leaf door (operator model : OPB-2).....	7,756.70	171.30	393.90	787.80	10511
10512	Automatic sliding door (operator model : EMJ-1).....	9,371.00	168.60	387.60	775.20	10512
10513	Automatic double leaf sliding door (operator model : EMJ-2).....	7,496.80	134.90	310.10	620.20	10513

Item	AUTOMATIC SWING AND SLIDING DOORS (CONT'D)				Item	
	Supply and fix strong room door and frame, complete with all boltwork, locking, anti-explosive protection and fire protection, in accordance with G.S. clause 22.50 : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
10514	Single leaf Treasury Grade "C" door.....	19,140.80	164.40	302.30	1,007.80	10514
10515	Ditto but Treasury Grade "D".....	17,020.80	139.10	255.80	852.70	10515
10516	Ditto but Treasury Grade "E".....	14,038.70	113.80	209.30	697.70	10516
	(Note : - The above Items 10514 to 10516 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)					
	PROPRIETARY FIBREGLASS HOUSE AND PLANTER					
	Fibreglass house equipped with windows, door, louvres and all necessary accessories in accordance with the manufacturer's instructions : -					
	<i>Per set</i>					
10517	Combinable house size 1520 x 1220 x 2250 mm high and sun cover size 2400 x 1500 x 150 mm high.....	10,230.70	433.60	61.40	87.70	10517
10518	Guard house size 1250 x 1250 x 2100 mm high and sun cover size 1800 x 1500 x 150 mm high.....	9,165.40	344.30	55.30	78.90	10518
10519	Guard house size 3460 x 1520 x 2350 mm high and sun cover size 3800 x 1800 x 150 mm high.....	29,582.50	1,172.90	92.10	131.60	10519
	Fibreglass planters with galvanised mild steel framing in any colour finish and all necessary accessories in accordance with the manufacturer's instructions : -					
10520	Planter size 1200 x 1200 x 1200 mm high.....	5,512.70	182.40	55.30	78.90	10520
	PROPRIETARY FURNITURE					
	Supply and fix "Flores Valles" fume cupboard complete with epoxy resin worktop, oval drip cup, water tap, gas tap, electricity outlet and underbench cabinet in accordance with the manufacturer's instructions (gas and power supply measured separately) : -					
	<i>Per set</i>					
10521	Fume cupboard, model : VG120810 overall size : 1200 x 2300 x 810 mm.....	50,450.50	429.80	387.60	775.20	10521
10522	Fume cupboard, model : VG150810 overall size : 1500 x 2300 x 810 mm.....	52,911.50	429.80	387.60	775.20	10522
	Supply and fix "APMG" school type fume cupboard c/w two compartment base storage cupboard for acids & inflammable liquids cast epoxy resin worktop and sinks, 4 sides glass panel, 250 mm dia. polypropylene ductwork, exhaust extraction system including steel support frame for fan and motor all in accordance with the manufacturer's instruction (gas and power supply measured separately) : -					
	<i>Per set</i>					
10523	Fume cupboard, overall size : 1500 x 2100 x 700 mm.....	47,804.90	429.80	387.60	775.20	10523

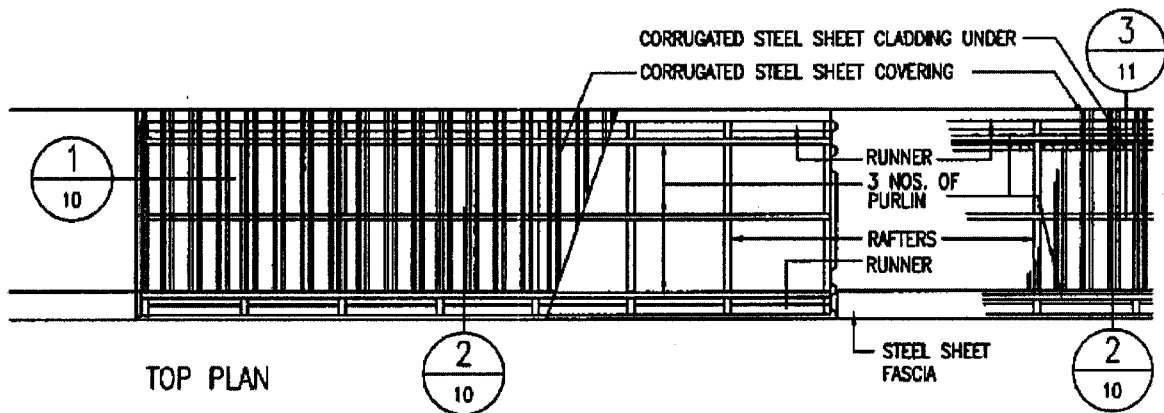
Item	PROPRIETARY FURNITURE (CONT'D)	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	Item
		A	B	C	D	
		\$	\$	\$	\$	
	Supply and fix proprietary locker system comprising : - Panel conforming to EN 438 : 13 mm thick ± 1 mm solid phenolic panel doors and intermediate self divider, 3 mm thick ± 1 mm partition and side walls, thick ± 1 mm back wall. Solid colour on both sides of the panel. Hardware : Aluminium framing, concealed hinges and multi-directional adjustable legs. Alloy locks with masterkeying system, two masterkeys and each lock with two keys and one plastic number plate with stainless steel split key ring. Plastic number plate with logo for each compartment. Rubber strip as door stop.					
	<i>Per set</i>					
10524	Locker size 300 x 1800 mm high, 400 - 500 mm deep, 1 tier, fully openable.....	2,254.00	42.90	19.70	32.90	10524
10525	Ditto but 2 tiers.....	2,688.70	42.90	19.70	32.90	10525
10526	Ditto but 3 tiers.....	3,022.80	42.90	19.70	32.90	10526
10527	Ditto but 4 tiers.....	3,441.40	42.90	19.70	32.90	10527
10528	Ditto but 5 tiers.....	3,851.90	42.90	19.70	32.90	10528
10529	Ditto but 6 tiers.....	4,302.70	42.90	19.70	32.90	10529
10530	Extra over either of Items 10524 to 10529 inclusive for coin-return locking device.....	464.90	-	-	-	10530
10531	Extra over either of Items 10524 to 10529 inclusive for additional pad lock device.....	117.90	-	-	-	10531
	Supply and fix proprietary locker system comprising 8 mm thick compact laminated panel machined in double side fine velour finish and any colour, for the self, door, side panel, top and bottom panel, 3 mm thick for back panel and dividing panel; including all necessary aluminium hardware, ironmongeries and fixtures like continuous natural anodised aluminium extruded profile, shelf support, hinges and cam locks each with two keys and one plastic key plates, etc. : -					
	<i>Per set</i>					
10532	Locker size 300 x 1800 mm high, 400 - 500 mm deep, 1 tier, fully openable.....	2,986.70	33.30	19.70	32.90	10532
10533	Ditto but 2 tiers.....	3,409.40	33.30	19.70	32.90	10533
10534	Ditto but 3 tiers.....	3,831.10	33.30	19.70	32.90	10534
10535	Ditto but 4 tiers.....	4,253.80	33.30	19.70	32.90	10535
10536	Ditto but 5 tiers.....	4,675.50	33.30	19.70	32.90	10536
10537	Ditto but 6 tiers.....	5,098.20	33.30	19.70	32.90	10537
10538	Lockers size 300 x 1800 mm high, 400 - 500 mm deep, 2 tiers, partial openable.....	3,071.40	33.30	19.70	32.90	10538
10539	Ditto but 3 tiers.....	3,644.20	33.30	19.70	32.90	10539
10540	Ditto but 4 tiers.....	3,915.90	33.30	19.70	32.90	10540
10541	Ditto but 5 tiers.....	4,338.60	33.30	19.70	32.90	10541
10542	Ditto but 6 tiers.....	4,760.30	33.30	19.70	32.90	10542
	Replacement parts : -					
	<i>Each</i>					
10543	Supply only additional key and plastic key plate.....	9.10	-	-	-	10543
10544	Door hinge.....	47.30	2.00	4.40	11.10	10544
10545	Cam lock	118.80	4.00	8.90	22.20	10545

Item	CHANGING SEATING BENCH					Item
	Proprietary changing seating benches comprising 13 ± 1 mm thick compact laminated seat, back rest, coat hook rail and coat hooks, stainless steel or powder coated aluminium framings in all necessary accessories as recommended by the manufacturer's recommendations : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Per linear metre</i>					
10546	Changing seating bench, size : 900 wide x 450 mm high.....	2,874.80	17.60	15.60	43.20	10546
10547	Changing seating bench, single side size : 450 wide x 450 mm high with 1650 mm high coat hook rail.....	2,629.00	15.20	13.00	38.90	10547
10548	Changing seating bench, double side size : 900 wide x 450 mm high with 1650 mm high coat hook rail.....	4,313.00	18.60	14.30	47.50	10548
	SUPPLY ONLY OF MATERIALS					
	MILD STEEL				A \$	
	<i>Per kg</i>					
10549	Square rods or flat bars.....				5.10	10549
10550	Angle sections.....				4.90	10550
10551	Tee sections.....				4.90	10551
	GALVANIZED MILD STEEL					
	<i>Per kg</i>					
10552	Plate or flat bars exceeding 300 mm wide.....				8.80	10552
10553	Round rods.....				8.00	10553
10554	Square rods or flat bars n.e. 300 mm wide.....				8.80	10554
10555	Angle sections.....				7.70	10555
10556	Tee sections.....				7.70	10556
10557	Chequer plates.....				9.90	10557
	STAINLESS STEEL			AISI 304	AISI 316	
	<i>Per kg</i>			A \$	B \$	
10558	Square or flat bars.....			42.80	68.60	10558
10559	Round bars.....			39.50	63.30	10559
10560	Square or rectangular hollow tubes.....			49.50	79.50	10560
10561	Hollow circular tubes.....			49.50	79.50	10561
10562	Equal or unequal angle, tee or channel sections.....			47.80	76.80	10562

Item	SUPPLY ONLY OF MATERIALS (CONT'D)				Item																								
NON FERROUS METAL																													
<i>Per kg</i>					A																								
					\$																								
10563	Extruded aluminium sections with clear anodized finish in square or flat bars.....				39.20	10563																							
10564	Ditto but in round bars.....				39.20	10564																							
10565	Ditto but in square or rectangular hollow tubes.....				39.20	10565																							
10566	Ditto but in hollow circular tubes.....				39.20	10566																							
10567	Ditto but in equal or unequal angle, tee or channel sections.....				39.20	10567																							
Approved stove enamelled slotted steel angel section complete with fixing screws, bolts, nuts washers and corner stiffeners : -																													
<i>Per linear metre</i>																													
10568	36 x 36 x 1.8 mm Slotted angle section.....				21.00	10568																							
10569	40 x 40 x 2.00 mm Ditto.....				24.80	10569																							
10570	62 x 41 x 2.00 mm Ditto.....				27.10	10570																							
10571	66 x 45 x 2.50 mm Ditto.....				36.20	10571																							
EXPANDED METAL																													
<table border="1"> <thead> <tr> <th>Mesh (mm)</th> <th>77 x 34</th> <th>30.48 x 13</th> <th>38.10 x 16.93</th> </tr> </thead> <tbody> <tr> <td>Weight (kg/m²)</td> <td>5.91</td> <td>7.38</td> <td>12</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td></td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </tbody> </table>						Mesh (mm)	77 x 34	30.48 x 13	38.10 x 16.93	Weight (kg/m ²)	5.91	7.38	12		A	B	C		\$	\$	\$								
Mesh (mm)	77 x 34	30.48 x 13	38.10 x 16.93																										
Weight (kg/m ²)	5.91	7.38	12																										
	A	B	C																										
	\$	\$	\$																										
<i>Per square metre</i>																													
10572	Proprietary expanded metal for security fencing with hot dip galvanised finish.....				207.00	212.90	271.00	10572																					
FENCING																													
<table border="1"> <thead> <tr> <th>Wire (mm)</th> <th>2.50</th> <th>3.00</th> <th>3.00</th> <th>3.00</th> <th>4.00</th> </tr> </thead> <tbody> <tr> <td>Mesh (mm)</td> <td>40</td> <td>75</td> <td>50</td> <td>40</td> <td>50</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> </tr> <tr> <td></td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </tbody> </table>						Wire (mm)	2.50	3.00	3.00	3.00	4.00	Mesh (mm)	40	75	50	40	50		A	B	C	D	E		\$	\$	\$	\$	\$
Wire (mm)	2.50	3.00	3.00	3.00	4.00																								
Mesh (mm)	40	75	50	40	50																								
	A	B	C	D	E																								
	\$	\$	\$	\$	\$																								
<i>Per square metre</i>																													
10573	Galvanized iron wire chain link.....				20.30	21.70	27.60	31.70	43.40	10573																			
FENCING																													
<table border="1"> <thead> <tr> <th>Wire (mm)</th> <th>3.00</th> <th>3.00</th> <th>2.50</th> <th>2.50</th> </tr> </thead> <tbody> <tr> <td>Mesh (mm)</td> <td>75</td> <td>50</td> <td>40</td> <td>25</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td></td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </tbody> </table>						Wire (mm)	3.00	3.00	2.50	2.50	Mesh (mm)	75	50	40	25		A	B	C	D		\$	\$	\$	\$				
Wire (mm)	3.00	3.00	2.50	2.50																									
Mesh (mm)	75	50	40	25																									
	A	B	C	D																									
	\$	\$	\$	\$																									
<i>Per square metre</i>																													
10574	P.V.C. coated galvanised steel chain link.....				49.30	70.40	58.70	89.20	10574																				



FRONT ELEVATION

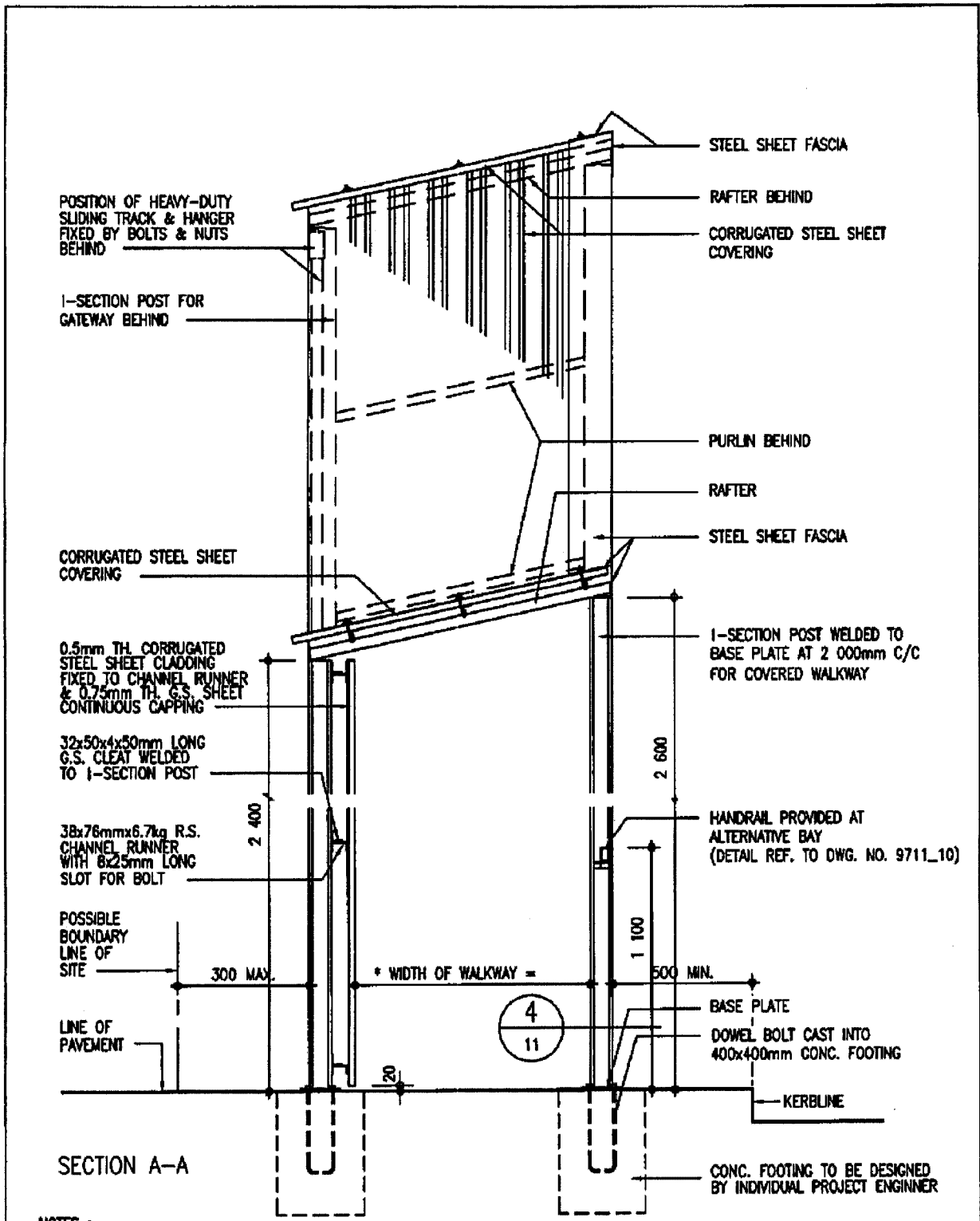


TOP PLAN

NOTES :

1. LOCATION OF LOGO TO BE REFERRED TO DWG. NO. 9711_12.
2. SLIDING TRACK AND HANGERS FOR GATE TO BE OF 'COUNCIL END-FOLD 305, HENDERSON SLIDING DOOR GEAR' OR SIMILAR APPROVED.
3. ALL CORRUGATED STEEL SHEET PANELS, CAPPING AND TOE SHEETS TO BE OF G.S. WITH MINIMUM ZINC COATING CONTENT 350g/m² ON BOTH SURFACES WITH TRIPLE SPOT TEST, AND FINISHED WITH ONE COAT OF 'LUXAPRIME 1600 PRIMER' (OR EQUIVALENT) AND TWO COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE ON BOTH SIDES.

CHECKED CPM303	<i>Alfon.</i>	DATE 18.3.98	APPROVED AD(PS)	<i>[Signature]</i>	DATE 19.3.98
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.			title HOARDING DETAIL - TYPE 1		scale 1:50
					drawing no. 9711_01 (04/04)

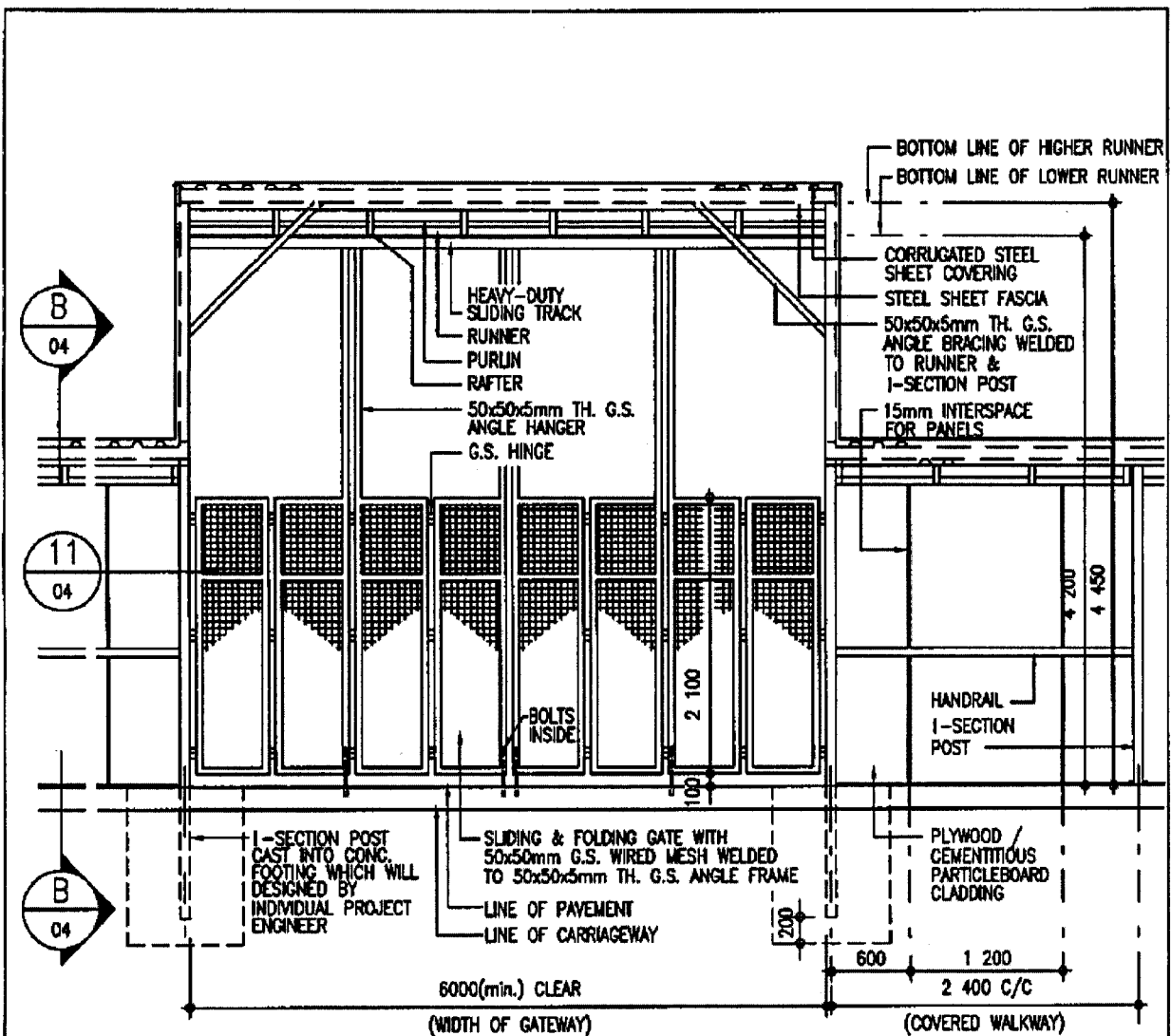


NOTES :

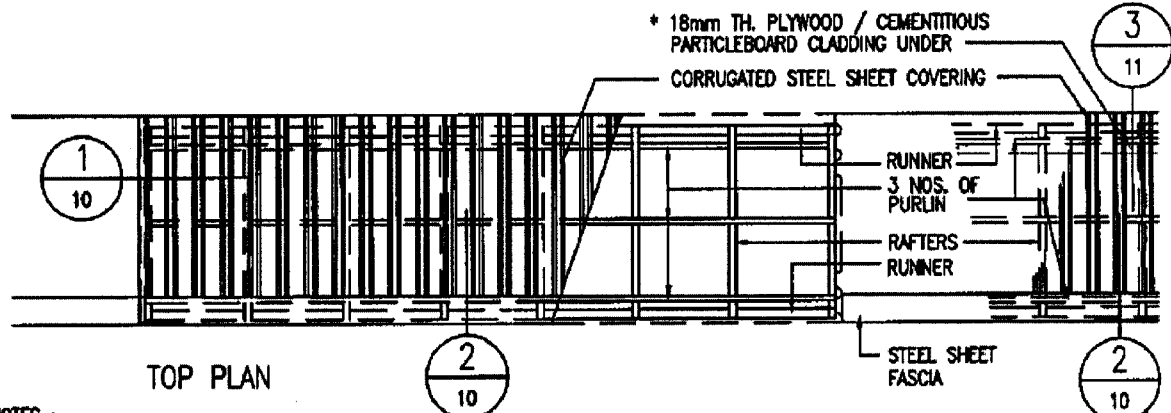
1. * FILL IN WIDTH AS REQUIRED.
2. MIXTURE OF CONC. FOOTING TO BE OF GRADE 20/40.
3. UNLESS OTHERWISE STATED, ALL EXPOSED SURFACES TO BE OF MID-GREY COLOUR (10 A 07).
4. ALL FRAME WORKS TO BE OF GRADE 43C TO B.S. 4360 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE.

WIDTH OF WALKWAY	
PAVEMENT WIDTH	WIDTH
UP TO 2 000mm	1 100mm
2 000mm TO 2 500mm	1 400mm
OVER 2 500mm	2 000mm

CHECKED CPN303 <i>ajun.</i>	DATE 10.3.98	APPROVED AD(PS) <i>[Signature]</i>	DATE 19.3.98
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING DETAIL - TYPE 1		scale 1:20 drawing no. 9711_02 (04/04)



FRONT ELEVATION

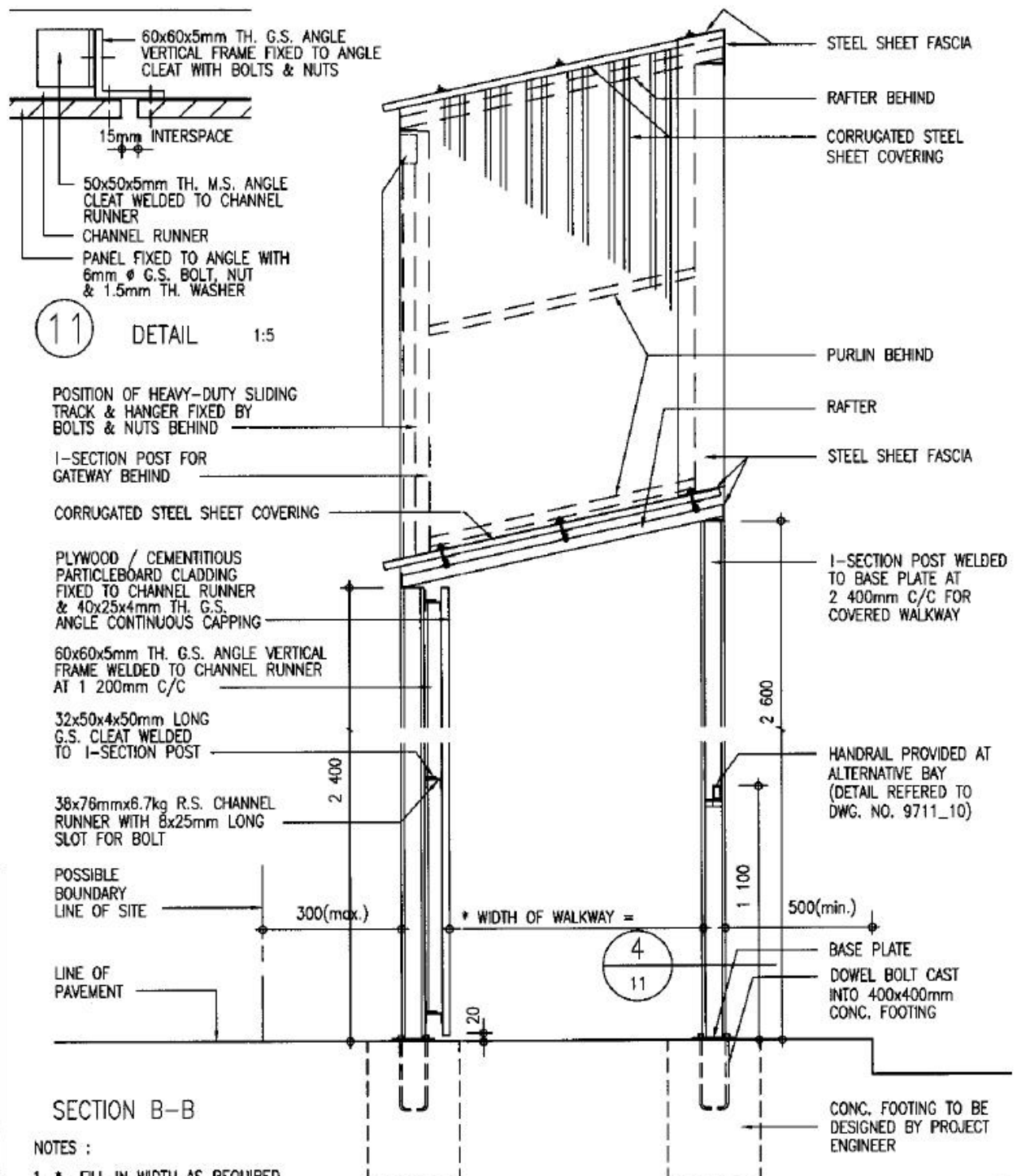


TOP PLAN

NOTES :

1. * DELETE WHICHEVER NOT APPLICABLE.
2. LOCATION OF LOGO TO BE REFERED TO DWG. NO. 9711_12.
3. SLIDING TRACK AND HANGERS FOR GATE TO BE OF 'COUNCIL END-FOLD 305, HENDERSON SLIDING DOOR GEAR' OR SIMILAR APPROVED.
4. ALL CORRUGATED STEEL SHEET PANELS & CAPPING TO BE OF G.S. WITH MINIMUM ZINC COATING CONTENT 350g/m² ON BOTH SURFACES WITH TRIPLE SPOT TEST, AND FINISHED WITH ONE COAT OF 'LUXAPRIME 1600 PRIMER' (OR EQUIVALENT) AND TWO COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE ON BOTHSIDES.

CHECKED CPM303	<i>ajp</i>	DATE 18.3.98	APPROVED AD(PS)	<i>[Signature]</i>	DATE 19.3.98
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING DETAIL - TYPE 2	scale 1:50	drawing no. 9711_03 (04/04)		



11 DETAIL 1:5

POSITION OF HEAVY-DUTY SLIDING TRACK & HANGER FIXED BY BOLTS & NUTS BEHIND

1-SECTION POST FOR GATEWAY BEHIND

CORRUGATED STEEL SHEET COVERING

PLYWOOD / CEMENTITIOUS PARTICLEBOARD CLADDING FIXED TO CHANNEL RUNNER & 40x25x4mm TH. G.S. ANGLE CONTINUOUS CAPPING

60x60x5mm TH. G.S. ANGLE VERTICAL FRAME WELDED TO CHANNEL RUNNER AT 1 200mm C/C

32x50x4x50mm LONG G.S. CLEAT WELDED TO I-SECTION POST

38x76mmx6.7kg R.S. CHANNEL RUNNER WITH 8x25mm LONG SLOT FOR BOLT

POSSIBLE BOUNDARY LINE OF SITE

LINE OF PAVEMENT

SECTION B-B

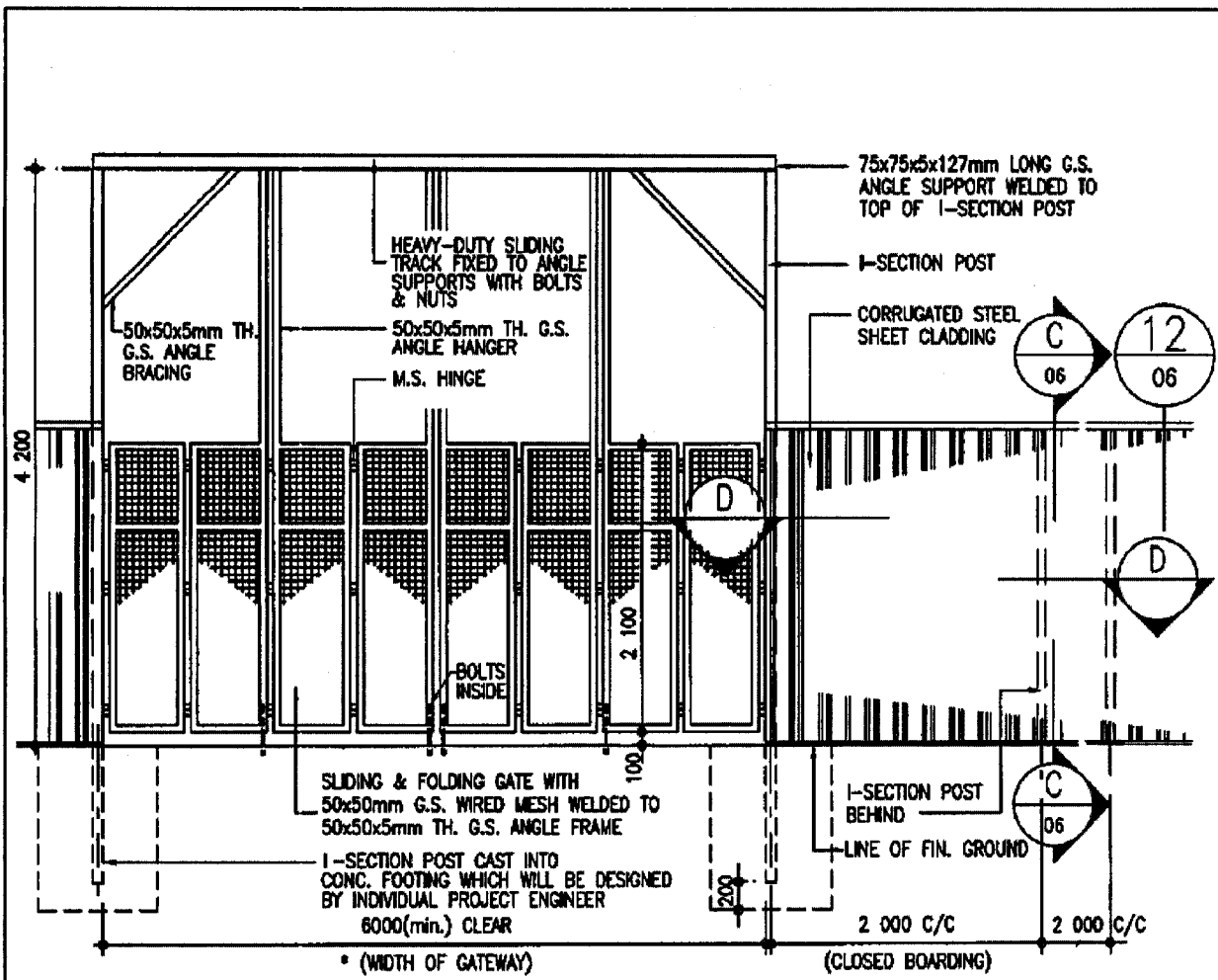
NOTES :

1. * FILL IN WIDTH AS REQUIRED.
2. MIXTURE OF CONC. FOOTING TO BE OF GRADE 20/40.
3. ALL TIMBER WORKS/CEMENTITIOUS PARTICLEBOARDS TO BE PAINTED.
4. UNLESS OTHERWISE STATED, ALL EXPOSED SURFACES TO BE OF MID-GREY COLOUR (10 A 07).
5. ALL FRAME WORKS TO BE OF GRADE 43C TO B.S. 4360 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE.

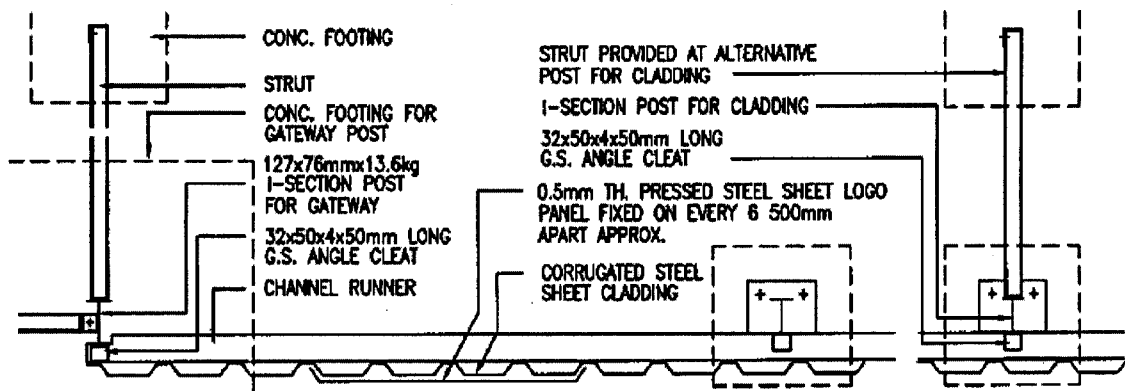
WIDTH OF WALKWAY	
PAVEMENT WIDTH	WIDTH
UP TO 2 000mm	1 100mm
2 000mm TO 2 500mm	1 400mm
OVER 2 500mm	2 000mm

CHECKED CPM303 *Open* DATE 18.3.98 APPROVED AD(PS) *[Signature]* DATE 19.3.98

ARCHITECTURAL BRANCH ARCH. SERVICES DEPT. title HOARDING DETAIL - TYPE 2 scale 1:20 drawing no. 9711_04 (04/04)



FRONT ELEVATION 1:50

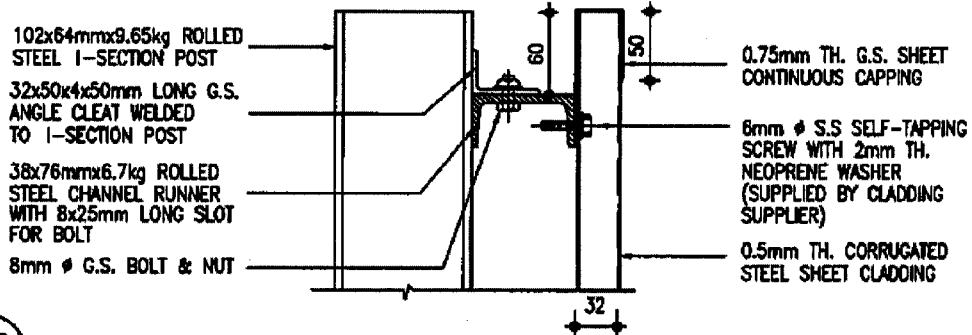
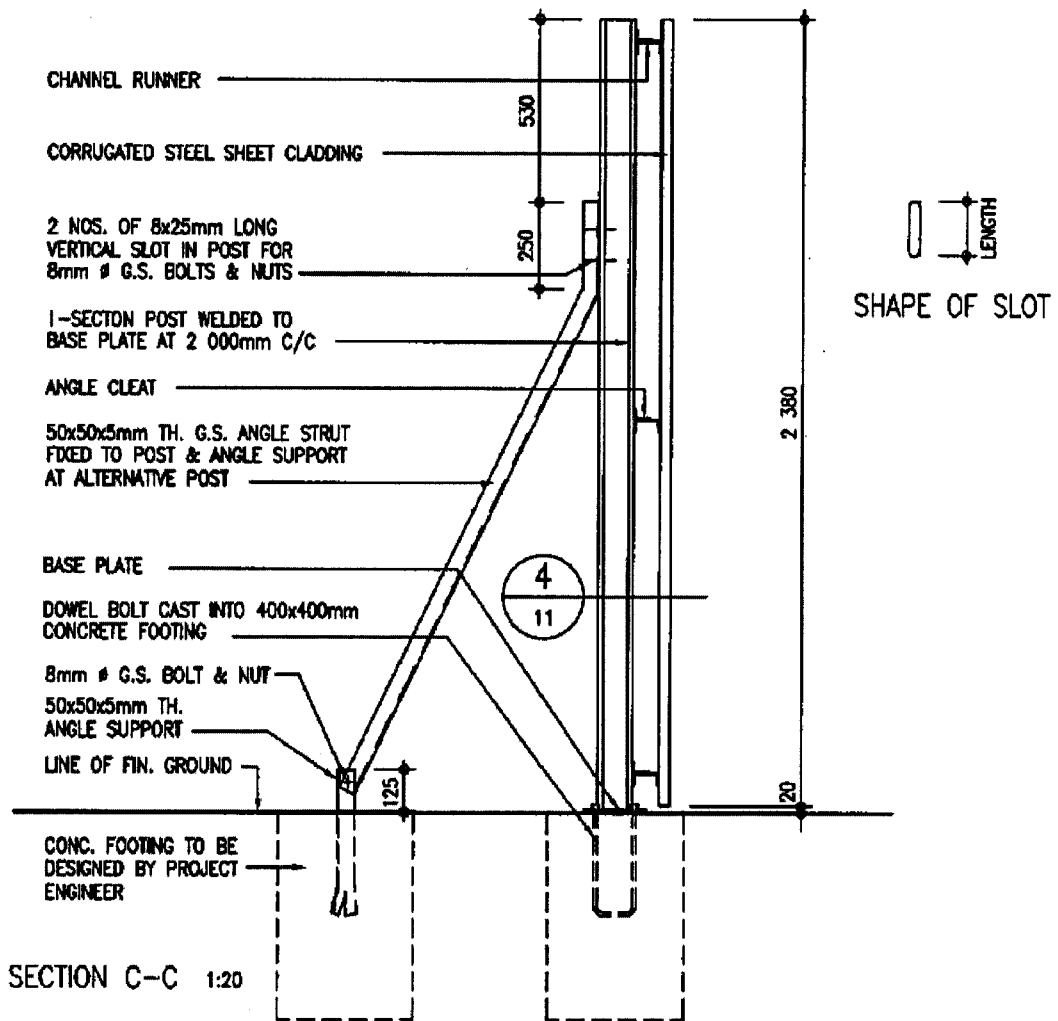


SECTION D-D 1:20

NOTES :

1. * GATEWAY TO BE PROVIDED AS REQUIRED SHOWING ON LAYOUT PLAN.
2. LOCATION OF LOGO TO BE REFERRED TO DWG. NO. 9711_12.
3. SLIDING TRACK AND HANGERS FOR GATE TO BE OF 'COUNCIL END-FOLD 305, HENDERSON SLIDING DOOR GEAR' OR SIMILAR APPROVED.
4. ALL CORRUGATED STEEL SHEET PANELS, CAPPING AND TOE SHEETS TO BE OF G.S. WITH MINIMUM ZINC COATING CONTENT 350g/m² ON BOTH SURFACES WITH TRIPLE SPOT TEST, AND FINISHED WITH ONE COAT OF 'LUXAPRIME 1600 PRIMER' (OR EQUIVALENT) AND TWO COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE ON BOTH SIDES.

CHECKED CPM303	<i>[Signature]</i>	DATE 18.3.98	APPROVED AD(PS)	<i>[Signature]</i>	DATE 19.3.98
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.		TITLE HOARDING DETAIL - TYPE 3		SCALE 1:20 1:50	DRAWING NO. 9711_05 (04/04)



12 DETAIL 1:5

NOTES :

1. MIXTURE OF CONC. FOOTING TO BE OF GRADE 20/40.
2. UNLESS OTHERWISE STATED, ALL EXPOSED SURFACES TO BE OF MID-GREY COLOUR (10 A 07).
3. ALL FRAME WORKS TO BE OF GRADE 43C TO B.S. 4360 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE.

CHECKED
CPM303

afun.

DATE 18.3.98

APPROVED
AD(PS)

AD(PS)

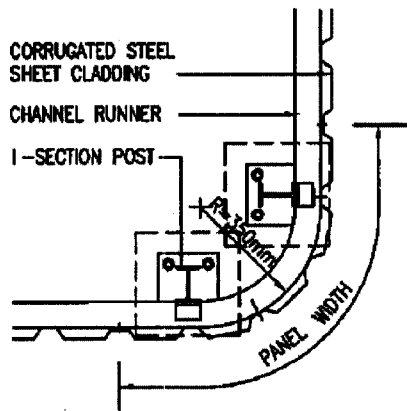
DATE 19.3.98

ARCHITECTURAL BRANCH
ARCH. SERVICES DEPT.

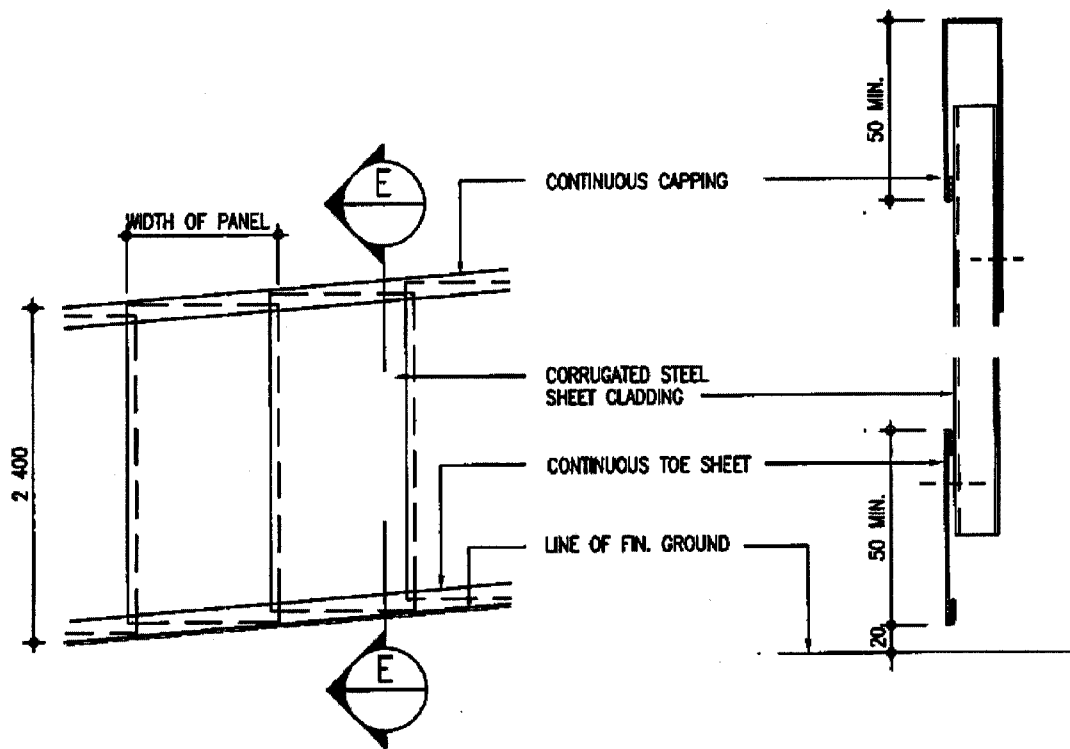
title
HOARDING DETAIL - TYPE 3

scale
1:5
1:20

drawing no.
9711_06 (04/04)



PLAN OF CLADDING AT CORNER 1:20

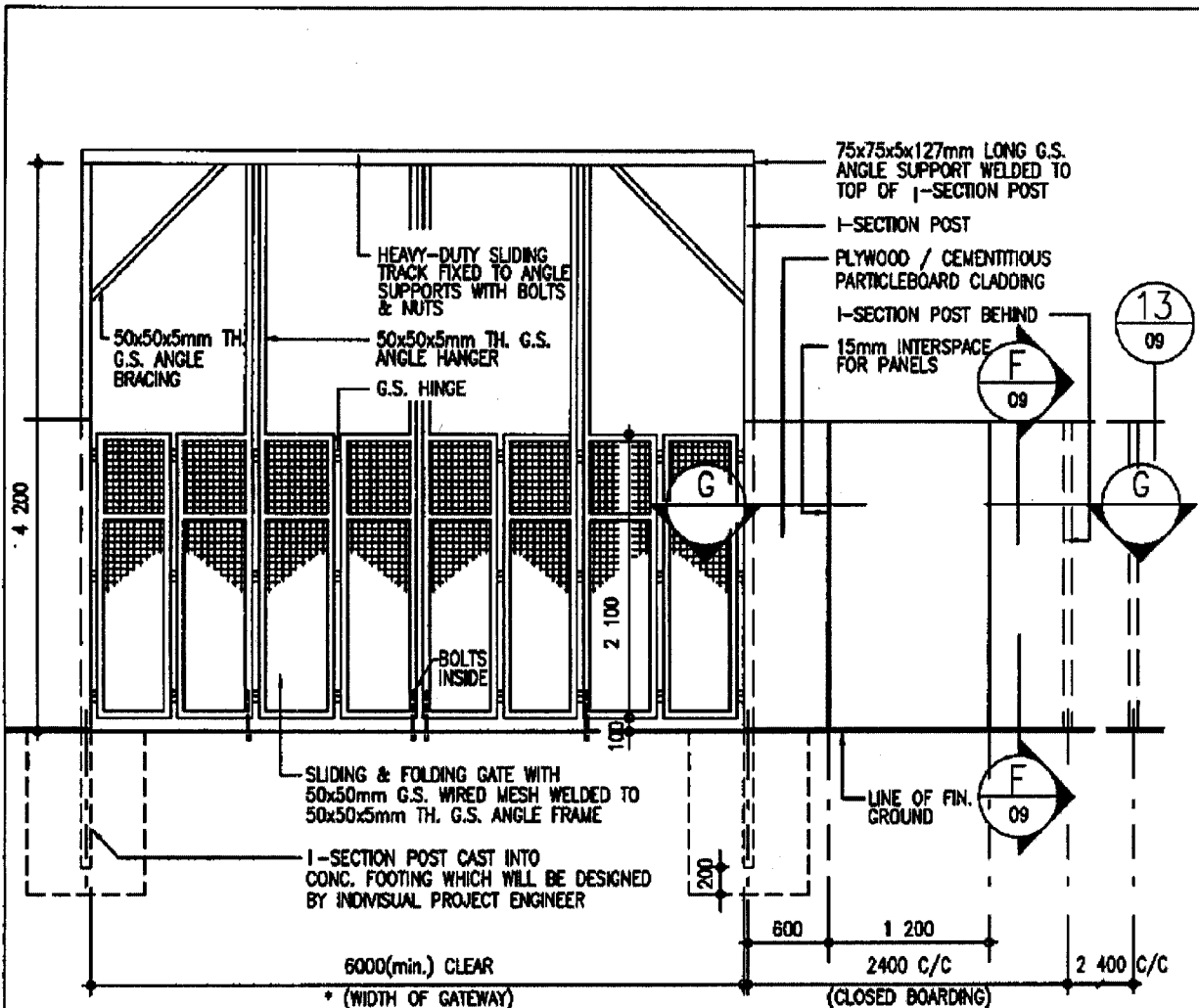


EXTERNAL ELEVATION 1:50

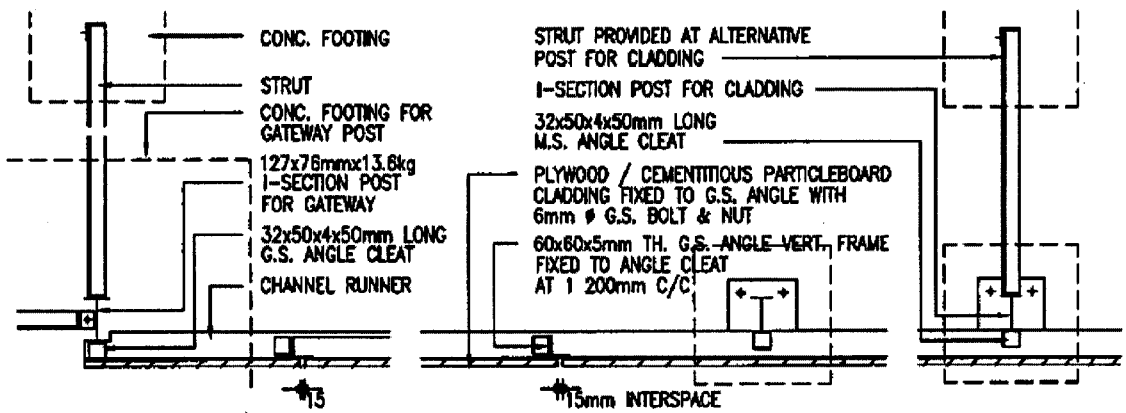
SECTION E-E 1:5

CLADDING ON SLOPE

CHECKED CPM303	<i>W. B. Lelo</i>	DATE 25. 11. 95	APPROVED AD(PS)	<i>W. B. Lelo</i>	DATE 5. 12. 95
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	TITLE HOARDING DETAIL - TYPE 3			SCALE 1:5 1:20 1:50	DRAWING NO. 9711_07 (04/04)



FRONT ELEVATION 1:50

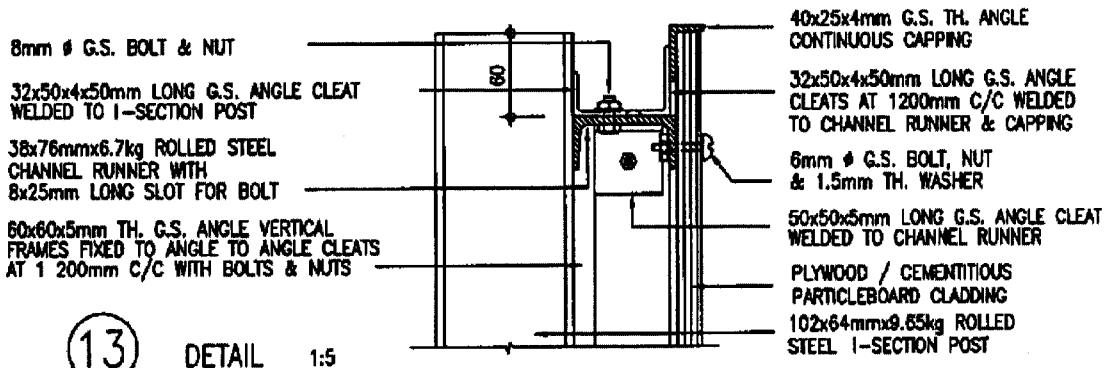
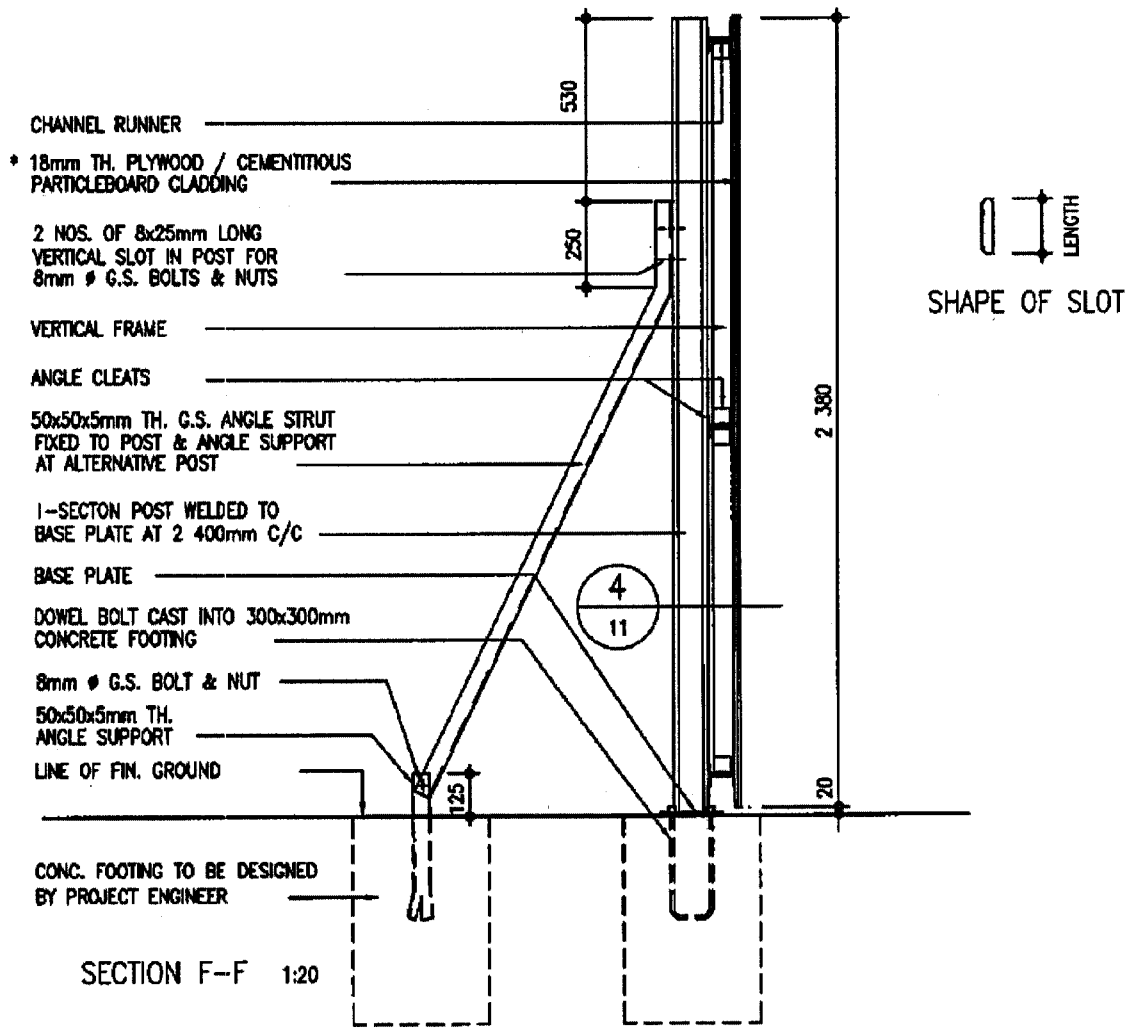


SECTION G-G 1:20

NOTES :

1. * GATEWAY TO BE PROVIDED AS REQUIRED SHOWING ON LAYOUT PLAN.
2. LOCATION OF LOGO TO BE REFERRED TO DWG. NO. 9711_12.
3. SLIDING TRACK AND HANGERS FOR GATE TO BE OF 'COUNCIL END-FOLD 305, HENDERSON SLIDING DOOR GEAR' OR SIMILAR APPROVED.

CHECKED CPM303	<i>CPM</i>	DATE 18. 3. 98	APPROVED AD(PS)	<i>[Signature]</i>	DATE 14-3-98
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.		title HOARDING DETAIL - TYPE 4		scale 1:20 1:50	drawing no. 9711_08 (04/04)



NOTES :

1. * DELETE WHICHEVER NOT APPLICABLE.
2. MIXTURE OF CONC. FOOTING TO BE OF GRADE 20/40.
3. ALL TIMBER WORKS/CEMENTITIOUS PARTICLEBOARDS TO BE PAINTED.
4. UNLESS OTHERWISE STATED, ALL EXPOSED SURFACES TO BE OF MID-GREY COLOUR (10 A 07).
5. ALL FRAME WORKS TO BE OF GRADE 43C TO B.S. 4360 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT OF ALKYD RESIN BASE.

CHECKED CPM/303	<i>CPM</i>	DATE 18.3.18	APPROVED AD(PS)	<i>AD</i>	DATE 19.3.18
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.		Title HOARDING DETAIL - TYPE 4		scale 1:5 1:20	drawing no. 9711_09 (04/04)

0.5mm TH. CORRUGATED STEEL SHEET COVERING

30x30x4x50mm LONG G.S. ANGLE CLEAT WELDED TO RAFTER BEHIND

60x60x5mm TH. G.S. WEB PLATE WELDED TO RUNNR

8 NOS. OF 50x50x5mm TH. G.S. ANGLE RAFTER WITH SLOT FOR GATEWAY

2 NOS. OF 40x40x4mm TH. G.S. ANGLE PURLIN WITH SLOTS FOR FIXING TO ANGLE CLEAT

SILICONE SEALANT POINTING ALONG JOINT AT THE BOTTOM OF CORRUGATED STEEL SHEET COVERING

40x40x4mm TH. G.S. ANGLE PURLIN

60x60x6mm TH. G.S. ANGLE RUNNER

CORRUGATED STEEL SHEET / PLYWOOD / CEMENTITIOUS PARTICLEBOARD CLADDING

8x25mm LONG SLOT IN PURLIN
6mm Ø G.S. HOOK FASTENERS, NUTS, 40x40x3mm TH. WASHERS & 2mm TH. NEOPRENE GASKETS AT 800mm C/C APPROX.

40x40x4mm TH. G.S. ANGLE PURLIN

70x70x8mm TH. G.S. ANGLE RUNNER WITH SLOT FIXED TO ANGLE CLEAT

60x60x6x60mm LONG G.S. ANGLE CLEAT WELDED TO POST

30x30x4x40mm LONG G.S. ANGLE CLEAT WELDED TO POST

127x76mmx13.36kg ROLLED STEEL I-SECTION POST FOR GATEWAY

30x30x4x50mm LONG G.S. ANGLE CLEAT WELDED TO RAFTER BEHIND

50x50x5mm TH. G.S. ANGLE RAFTERS WITH SLOTS, FIXED TO WEB PLATES AT 750mm C/C APPROX. FOR COVERED WALKWAY

50x50x5mm TH. G.S. WEB PLATE

32x50x4x60mm LONG G.S. ANGLE CLEAT WELDED TO I-SECTION POST BEHIND FOR ANGLE RUNNER

ANGLE CLEAT BEHIND

CHANNEL RUNNER BEHIND

1 DETAIL

0.5mm TH. CORRUGATED STEEL SHEET COVERING

HOOK FASTENERS AT 800mm C/C APPROX.

30x30x4x50mm LONG G.S. ANGLE CLEAT WELDED TO RAFTER

50x50x5mm TH. G.S. ANGLE RAFTER AT 750mm C/C APPROX. AND FIXED TO WEB PLATE

0.75mm TH. GALV. STEEL SHEET FASCIA WITH 50mm MIN. OVERLAPPING JOINTS

40x40x4mm TH. G.S. ANGLE PURLIN FIXED TO ANGLE CLEAT

60x60x5mm TH. (FOR GATEWAY)
50x50x5mm TH. (FOR COVERED WALKWAY)
G.S. WEB PLATE

8x25mm LONG SLOT IN PURLIN, RAFTER & ANGLE RUNNER FOR BOLT

8mm Ø G.S. BOLTS & NUTS

70x70x8mm TH. (FOR GATEWAY) /
60x60x6mm TH. (FOR COVERED WALKWAY)
G.S. ANGLE RUNNER FIXED TO ANGLE CLEAT

60x60x6x60mm LONG G.S. ANGLE CLEAT WELDED TO POST

127x76mmx13.36kg (FOR GATEWAY) /
102x64mmx9.65kg (FOR COVERED WALKWAY)
ROLLED STEEL I-SECTION POST

2 DETAIL

CHECKED
CPM303 *W. B. N. Lelo*

DATE
25. 11. 95

APPROVED
AD(PS) *W. B. N. Lelo*

DATE
5. 12. 95

ARCHITECTURAL BRANCH
ARCH. SERVICES DEPT.

title
HOARDING DETAIL - DETAILS OF 1 & 2

scale
1:5

drawing no.
9711_10 (04/04)

6mm ϕ G.S. HOOK FASTENERS,
NUTS, 40x40x3mm TH. WASHERS &
2mm TH. NEOPRENE GASKETS AT
800mm C/C APPROX.

0.5mm TH. CORRUGATED
STEEL SHEET COVERING

8x25mm LONG SLOT IN PURLIN,
RAFTER, ANGLE RUNNER &
CHANNEL RUNNER FOR BOLT

50x50x5mm TH. G.S.
WEB PLATE

60x60x5mm TH. G.S.
ANGLE RUNNER FIXED
TO ANGLE CLEAT

60x60x6x60mm LONG M.S.
ANGLE CLEAT WELDED TO POST

32x50x4x50mm LONG G.S.
ANGLE CLEAT WELDED
TO I-SECTION POST

38x76mmx6.7kg ROLLED
STEEL CHANNEL RUNNER
FIXED TO ANGLE CLEAT

50x50x5mm TH. G.S. ANGLE CLEAT
WELDED TO CHANNEL RUNNER FOR
TYPE 2 HOARDING

102x64mmx9.65kg ROLLED
STEEL I-SECTION POST

40x40x4mm TH. G.S. ANGLE
PURLIN FIXED TO ANGLE CLEAT

50x50x5mm TH. G.S.
ANGLE RAFTER FIXED
TO WEB PLATE

30x30x4x50mm LONG
G.S. ANGLE CLEAT
WELDED TO RAFTER

8mm ϕ G.S. BOLTS & NUTS

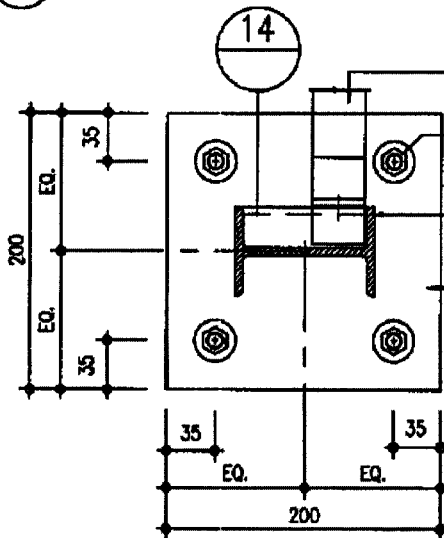
CORRUGATED STEEL SHEET /
PLYWOOD / CEMENTITIOUS
PARTICLEBOARD CLADDING
FIXED TO CHANNEL RUNNER

6mm ϕ G.S. BOLT, NUT &
1.5mm TH. WASHER FOR
TYPE 1 HOARDING /

8mm ϕ S.S. SELF TAPPING SCREW
WITH 2mm TH. NEOPRENE
WASHER FOR TYPE 2 HOARDING
& SUPPLIED BY CLADDING
SUPPLIER

60x60x5mm TH. G.S. ANGLE
WELDED TO CHANNEL RUNNERS
AT 1 200mm C/C FOR
TYPE 2 HOARDING

3 DETAIL



4 DETAIL

63x38mm HOLLOW
SECTION HANDRAIL

10mm ϕ G.S. DOWEL BOLT
CAST INTO CONG. FOOTING
WITH NUT & WASHER

102x64x9.65kg ROLLED STEEL
I-SECTION POST WELDED TO
BASE PLATE

8mm TH. G.S. BASE PLATE

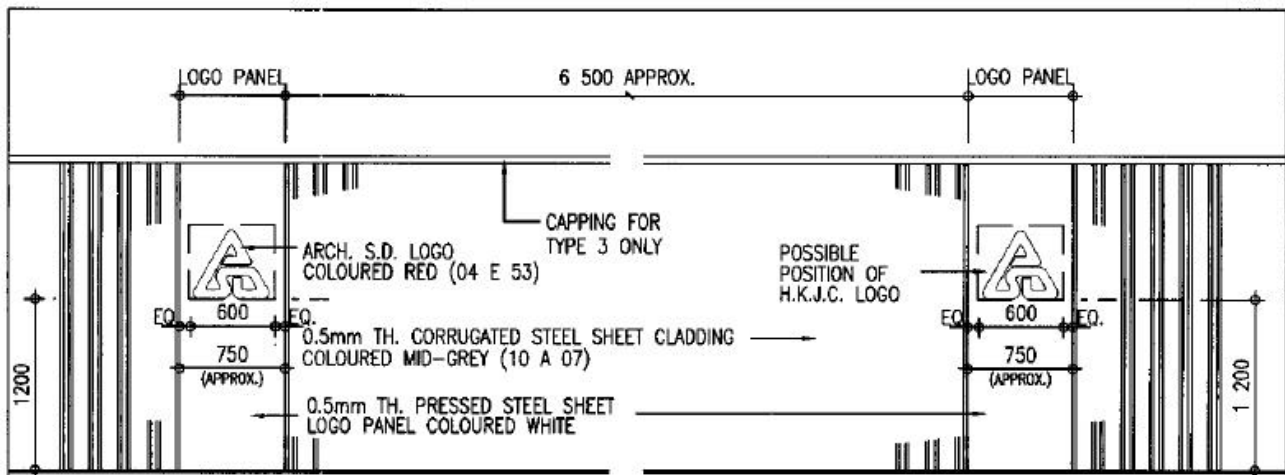
8mm ϕ G.S. BOLTS & NUTS

30x60x5mm TH. G.S. ANGLE
CLEAT WELDED TO HANDRAIL
& FIXED TO ANGLE CLEAT

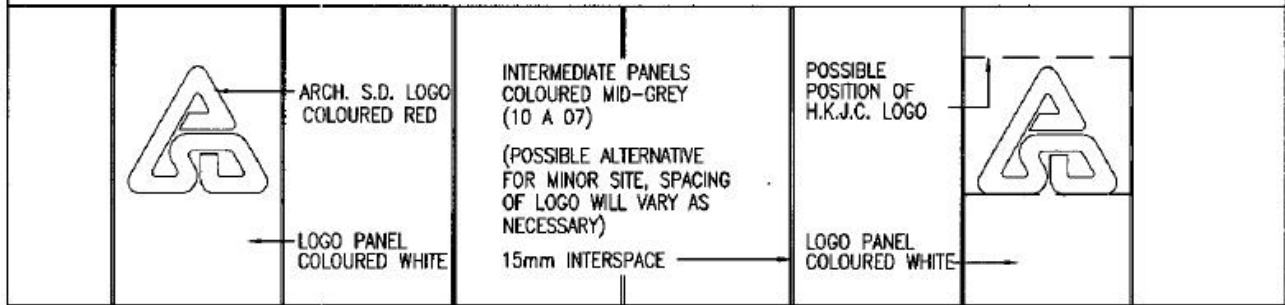
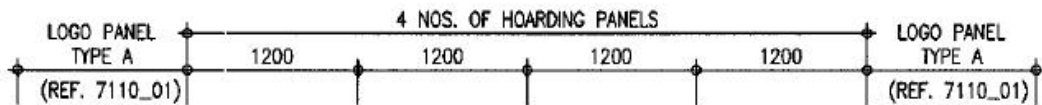
30x60x5mm TH. G.S. ANGLE
CLEAT WELDED TO POST WITH
8x25mm LONG VERTICAL SLOT
FOR BOLT

14 DETAIL

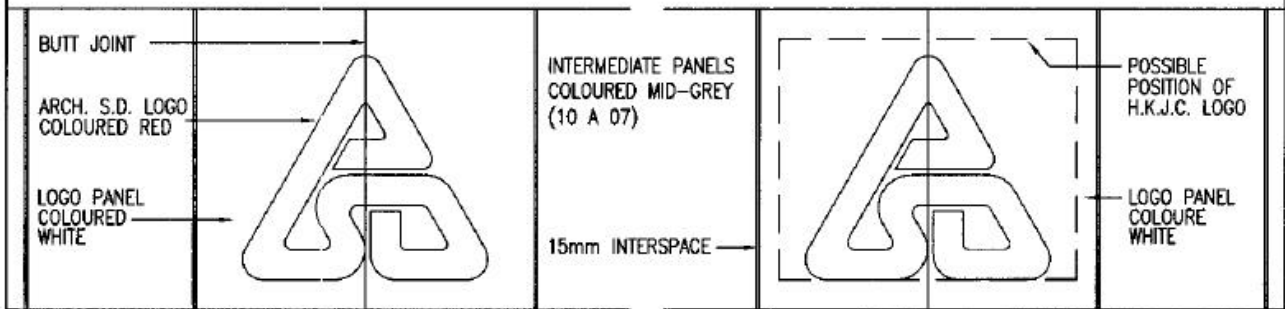
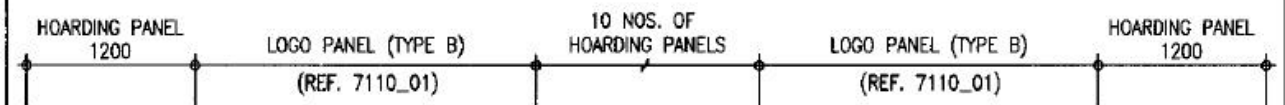
CHECKED CPM303 <i>W. B. Lele</i>	DATE 25.11.95	APPROVED AD(PS) <i>U. B. Patel</i>	DATE 5.12.95
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING DETAIL - DETAILS OF 3 & 4	scale 1:5	drawing no. 9711_11 (04/04)



ELEVATION
LOGO FOR HOARDING TYPE 1, 3, 5 & 6



ELEVATION
TYPE A LOGO FOR HOARDING TYPE 2 & 4



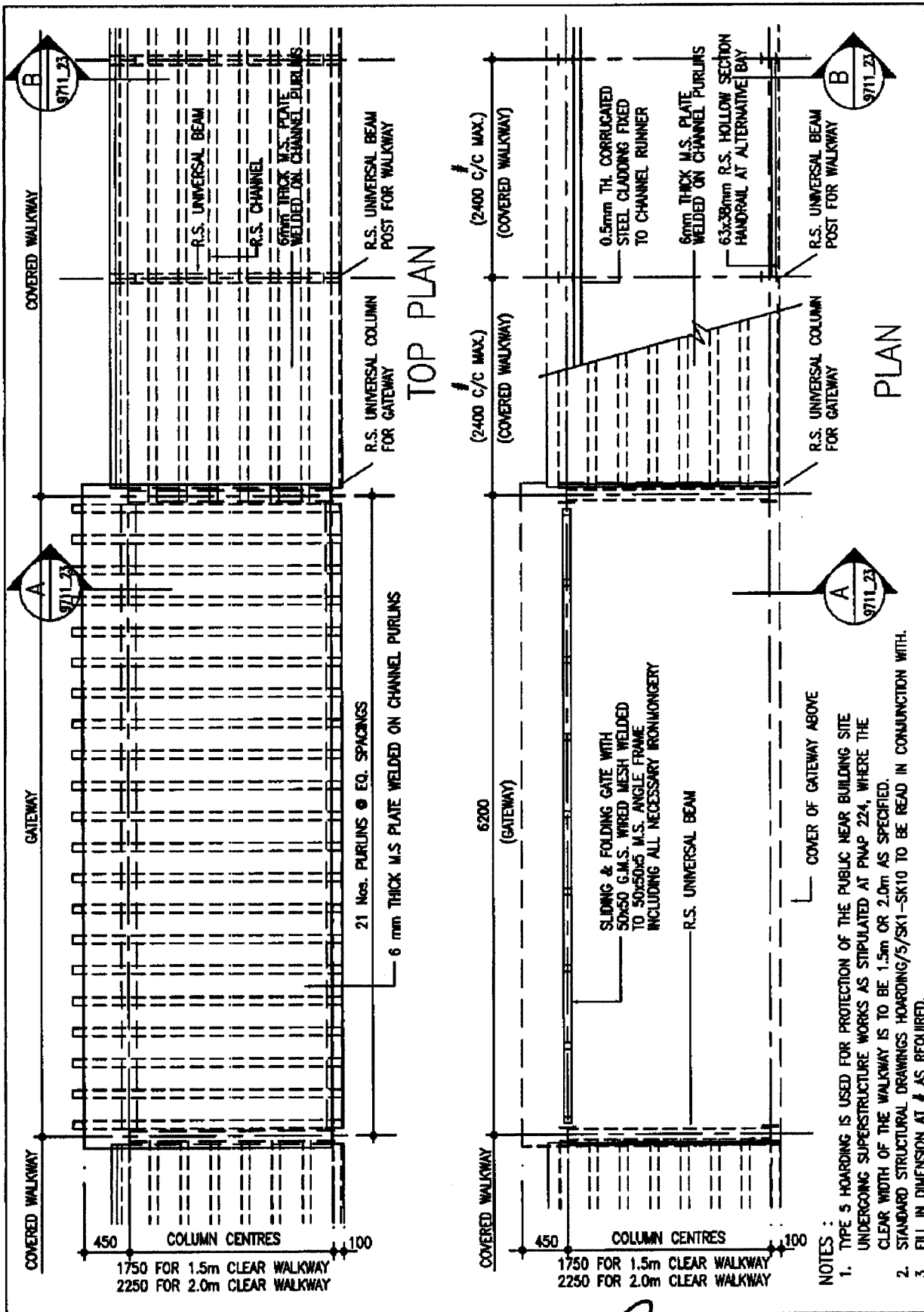
ELEVATION
TYPE B LOGO FOR HOARDING TYPE 2 & 4

NOTES :

1. FOR H.K.J.C. DONATED PROJECTS, LOGOS FOR ARCH. S.D. AND H.K.J.C. TO BE USED ALTERNATELY.
2. SETTING OUT OF LOGOS FOR ARCH. S.D. AND H.K.J.C. REFERRED TO DWG. NOS. 7110_3 AND 7110_12 RESPECTIVELY.

CHECKED CPM303	<i>D. Gnan</i>	DATE 17.8.01	APPROVED AD(PS)	<i>[Signature]</i>	DATE 20.8.2001
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ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING DETAIL - POSITION OF LOGO	scale 1:50	drawing no. 9711_12 (07/01)
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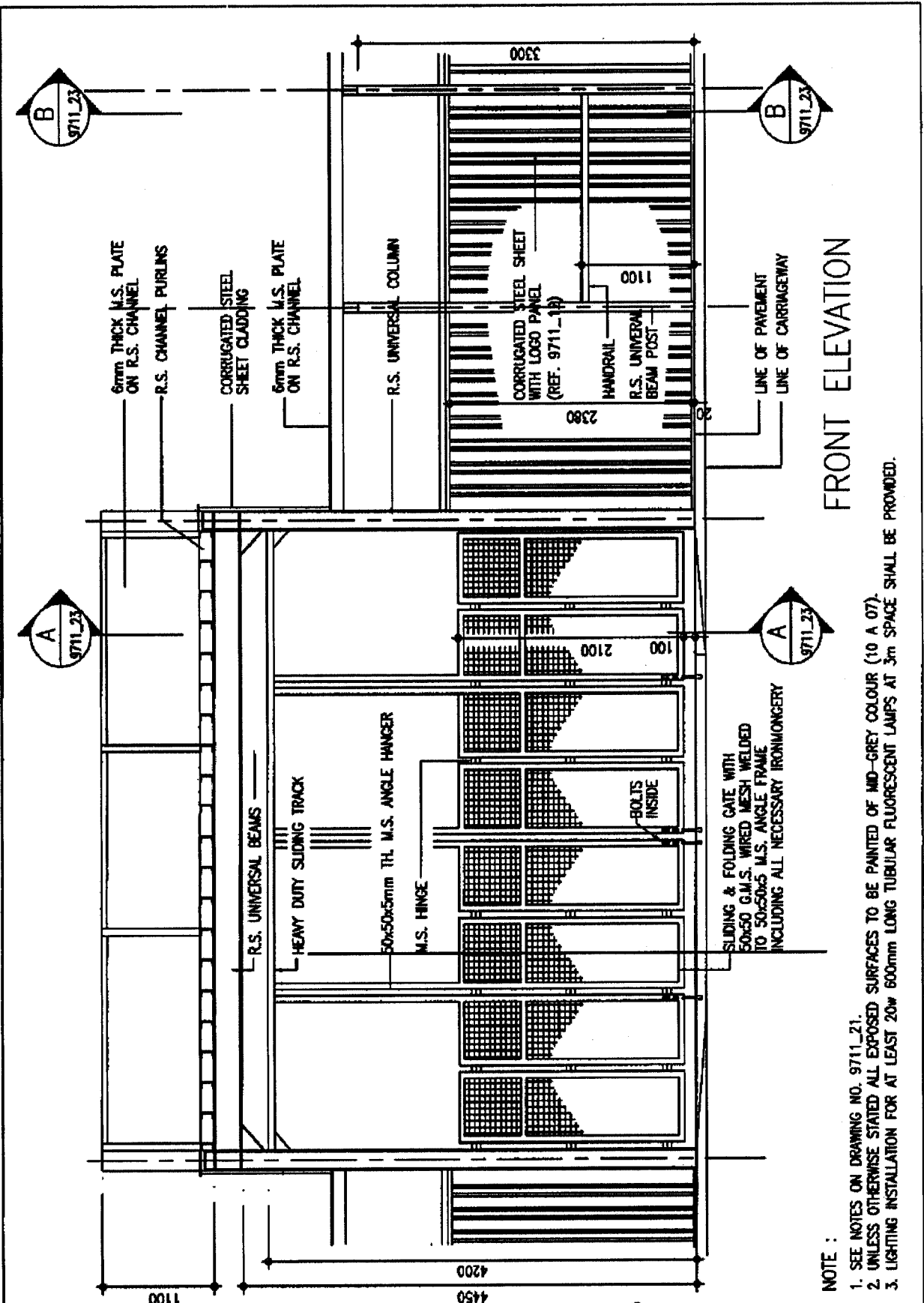


TOP PLAN

PLAN

- NOTES :
1. TYPE 5 HOARDING IS USED FOR PROTECTION OF THE PUBLIC NEAR BUILDING SITE UNDERGOING SUPERSTRUCTURE WORKS AS STIPULATED AT PNAP 224, WHERE THE CLEAR WIDTH OF THE WALKWAY IS TO BE 1.5m OR 2.0m AS SPECIFIED.
 2. STANDARD STRUCTURAL DRAWINGS HOARDING/5/SK1-SK10 TO BE READ IN CONJUNCTION WITH.
 3. FILL IN DIMENSION AT # AS REQUIRED.

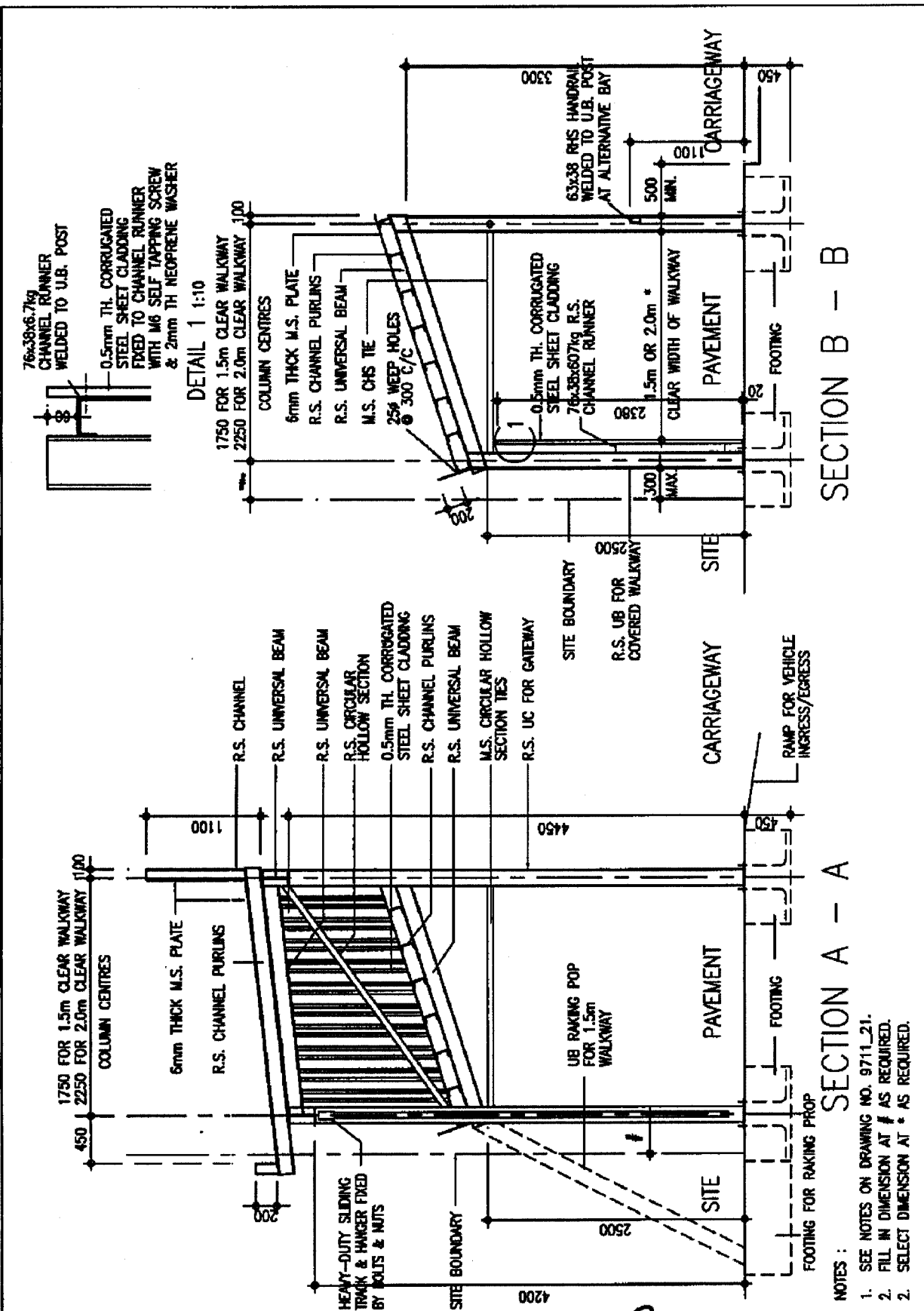
CHECKED CPM303 <i>D. Gnan</i>	DATE 17.8.04	APPROVED AD(PS) <i>[Signature]</i>	DATE 26.8.2004
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING - TYPE 5 (1 OF 3)		scale 1 : 50 drawing no. 9711_21 (04/04)



FRONT ELEVATION

- NOTE :
1. SEE NOTES ON DRAWING NO. 9711_21.
 2. UNLESS OTHERWISE STATED ALL EXPOSED SURFACES TO BE PAINTED OF MID-GREY COLOUR (10 A 07).
 3. LIGHTING INSTALLATION FOR AT LEAST 20w 600mm LONG TUBULAR FLUORESCENT LAMPS AT 3m SPACE SHALL BE PROVIDED.

CHECKED CPM303 <i>D. Gnan</i>	DATE 17.8.01	APPROVED AD(PS) <i>[Signature]</i>	DATE 20.8.2001
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING - TYPE 5 (2 OF 3)		scale 1 : 50 drawing no. 9711_22 (04/04)

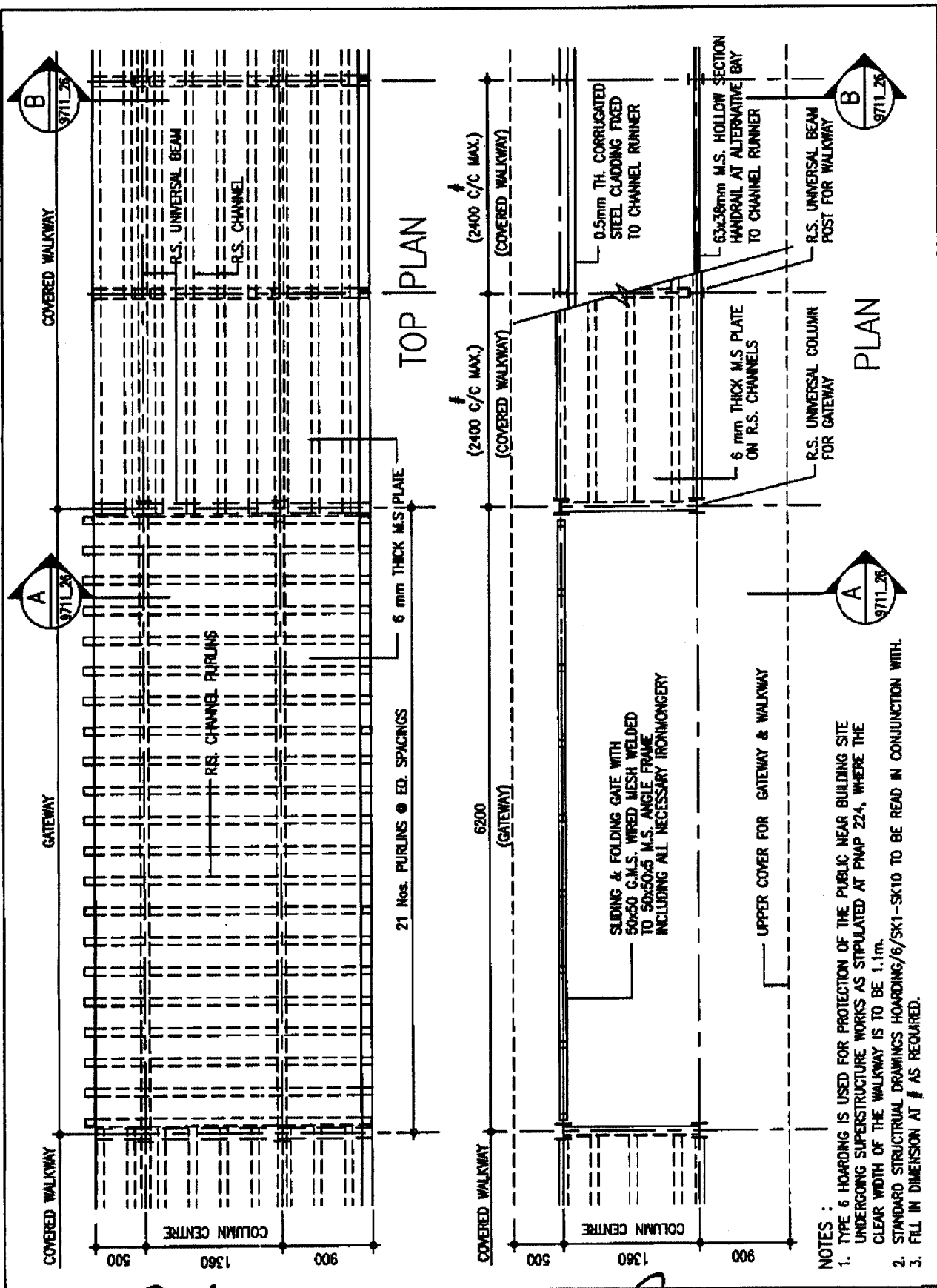


SECTION B - B

SECTION A - A

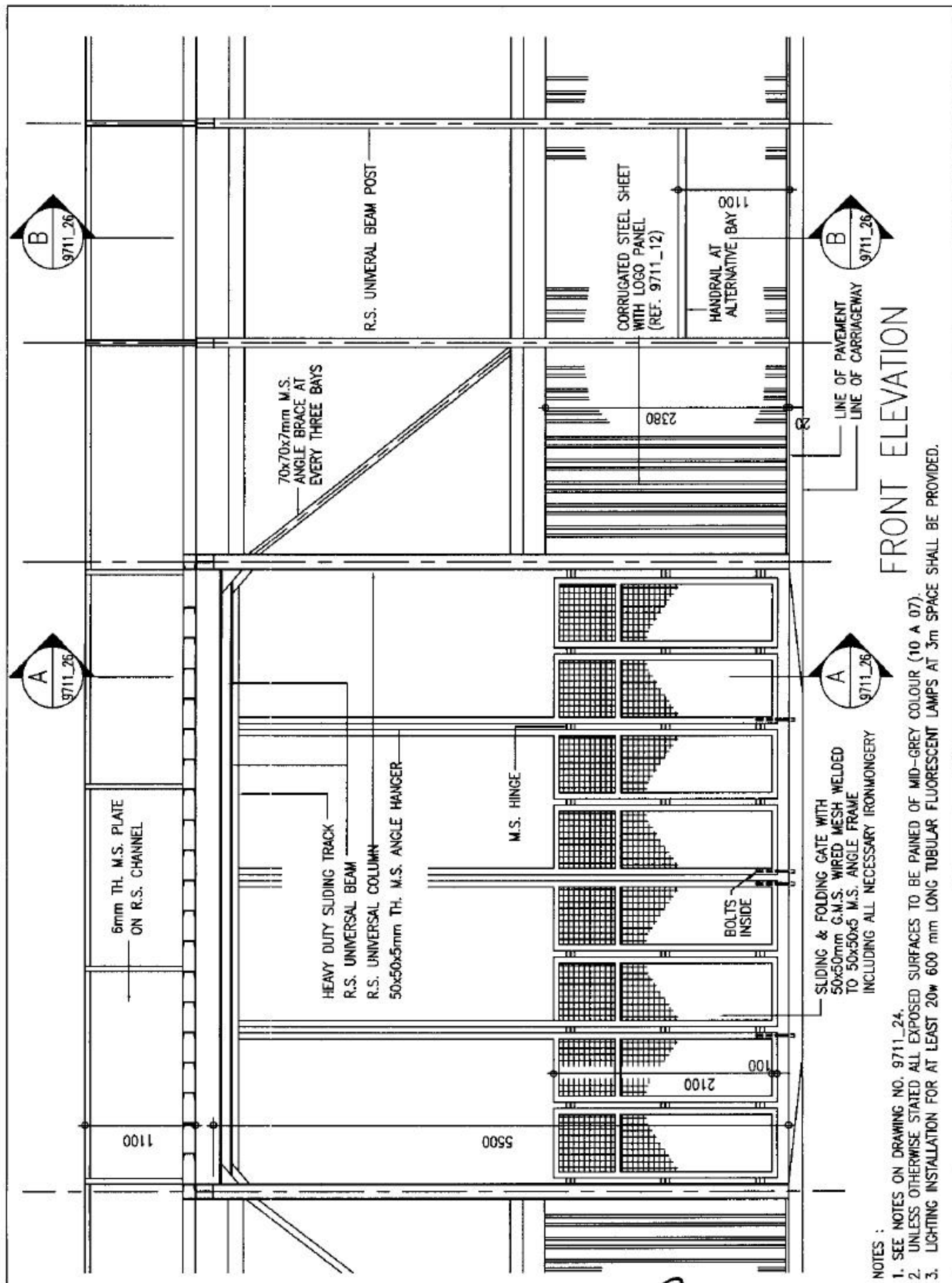
- NOTES :
1. SEE NOTES ON DRAWING NO. 9711_21.
 2. FILL IN DIMENSION AT # AS REQUIRED.
 2. SELECT DIMENSION AT * AS REQUIRED.

CHECKED CPM303 <i>D. J. ...</i>	DATE 17.8.01	APPROVED AD(PS) <i>[Signature]</i>	DATE 20.8.2001
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING - TYPE 5 (3 OF 3)		scale 1 : 50 AS SHOWN drawing no. 9711_23 (04/04)



- NOTES :
- TYPE 6 HOARDING IS USED FOR PROTECTION OF THE PUBLIC NEAR BUILDING SITE UNDERGOING SUPERSTRUCTURE WORKS AS STIPULATED AT P/NAIP 224, WHERE THE CLEAR WIDTH OF THE WALKWAY IS TO BE 1.1m.
 - STANDARD STRUCTURAL DRAWINGS HOARDING/6/SK1-SK10 TO BE READ IN CONJUNCTION WITH.
 - FILL IN DIMENSION AT # AS REQUIRED.

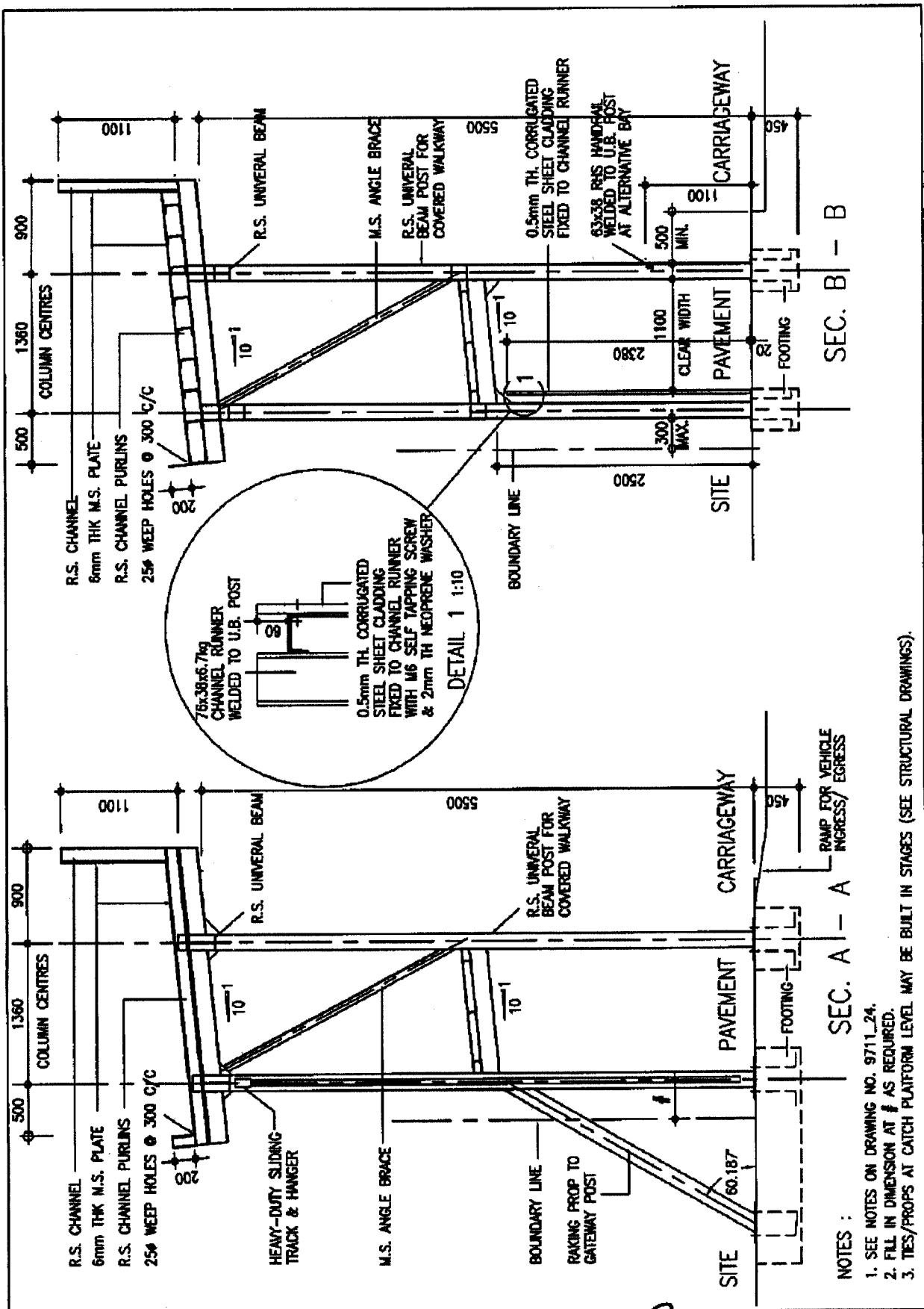
CHECKED CPM303	<i>D. J. ...</i>	DATE 17.8.04	APPROVED AD(PS) <i>[Signature]</i>	DATE 20.8.2004
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	TITLE HOARDING - TYPE 6 (1 OF 3)	SCALE 1 : 50	DRAWING NO. 9711_24 (04/04)	



FRONT ELEVATION

- NOTES :
1. SEE NOTES ON DRAWING NO. 9711_24.
 2. UNLESS OTHERWISE STATED ALL EXPOSED SURFACES TO BE PAINTED OF MID-GREY COLOUR (10 A 07).
 3. LIGHTING INSTALLATION FOR AT LEAST 20w 600 mm LONG TUBULAR FLUORESCENT LAMPS AT 3m SPACE SHALL BE PROVIDED.

CHECKED CPM303 <i>D. Gnan</i>	DATE 17.8.01.	APPROVED AD(PS) <i>[Signature]</i>	DATE 20.8.2001
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title HOARDING - TYPE 6 (2 of 3)	scale 1 : 50	drawing no. 9711_25 (04/04)



CHECKED
CPM303

D. Gnan

DATE

17.8.04

APPROVED
AD(PS)

AD

DATE

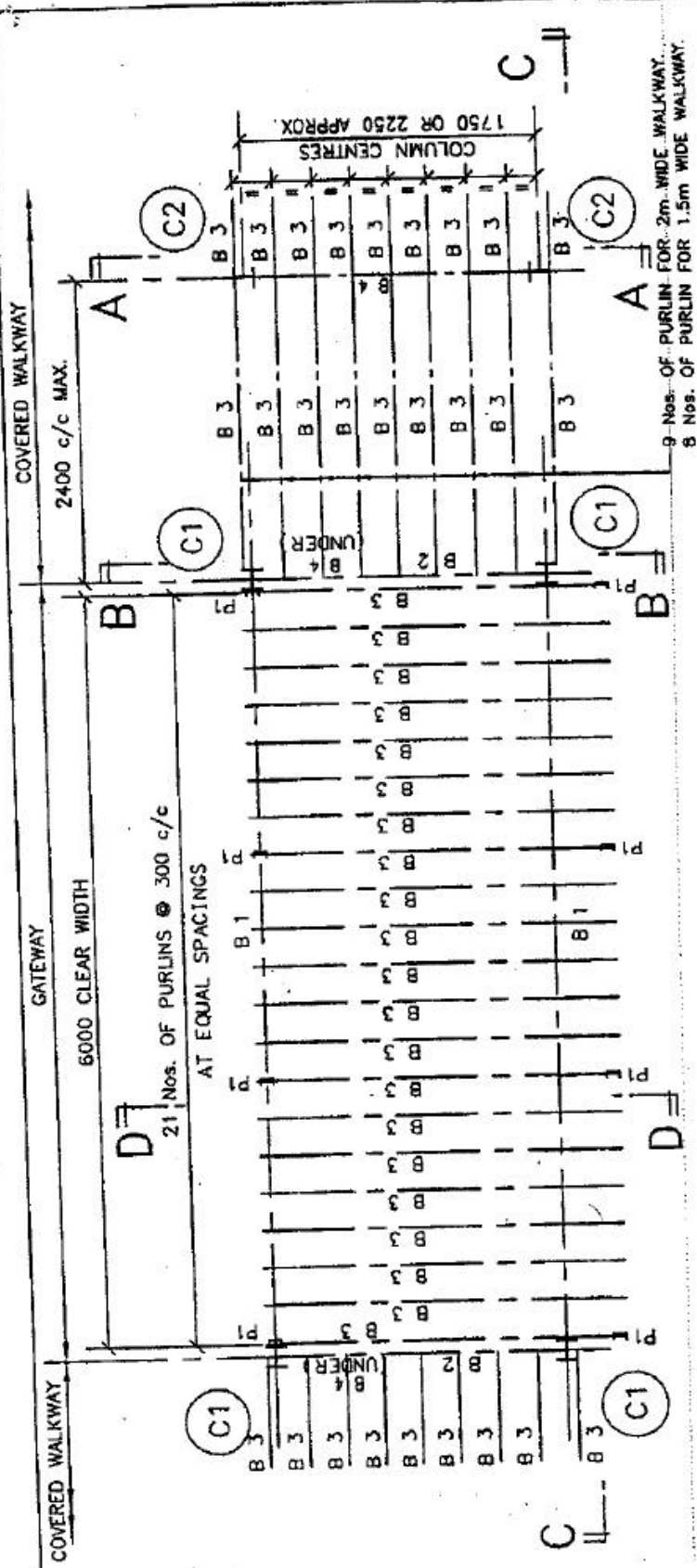
20.8.2004

ARCHITECTURAL BRANCH
ARCH. SERVICES DEPT.

title
HOARDING - TYPE 6 (3 OF 3)

scale
1 : 50
AS SHOWN

drawing no.
9711.26 (04/04)



9 Nos. OF PURLIN FOR 2m. WIDE WALKWAY.
 8 Nos. OF PURLIN FOR 1.5m WIDE WALKWAY.

TOP PLAN OF GATEWAY AND COVERED WALKWAY

- NOTES :
1. FOR CLEAR WIDTH OF WALKWAY AT 1.5m & 2.0m COLUMN CENTRES ARE 1.75m & 2.25m APPROX. RESPECTIVELY.
 2. ALL WELDING TO BE 6 mm F.W. ALL ROUND IN ACCORDANCE WITH BSS135:1984 UNLESS OTHERWISE STATED.
 3. ALL BOLTS TO BE GRADE 4.6 BLACK BOLTS TO BS 4190.
 4. ALL STRUCTURAL SECTIONS SHALL BE WELDABLE STRUCTURAL STEEL OF GRADE 43A UNLESS OTHERWISE SPECIFIED.
 5. THE DETAIL OF GATEWAY MAY BE MODIFIED BY PROJECT OFFICER TO SUIT ACTUAL SITE CONDITION.
 6. PROTECTIVE COATING TO ALL STRUCTURAL STEELWORK SHALL BE TYPE A IN TABLE 15.3 OF THE G.S. SUBMIT PANT MANUFACTURER'S DATA SHEET FOR APPROVAL BEFORE USE.

STEEL MEMBER SCHEDULE

MEMBER MARK	MEMBER SIZE
C 1	152 x 152 x 23 UC
C 2	152 x 89 x 16 UB
B 1	254 x 146 x 37 UB
B 2	152 x 89 x 16 UB
B 3	127 x 64 x 14.9 CHANNEL
B 4	152 x 89 x 16 UB
P 1	102 x 51 CHANNEL

THE SKETCHES ARE PREPARED TO MEET THE LOADING REQUIREMENTS AS SPECIFIED IN PNAP224 ISSUED BY BD. SIZES OF FOOTINGS MAY BE MODIFIED BY PSE TO SUIT ACTUAL SITE CONDITIONS.

Title
 1.5m & 2.0m WIDE
 HOARDING AND
 COVERED WALKWAY FOR
 BUILDING HEIGHT EXCEED 30m
 (TYPE 5)

checked
 CSE/3 *[Signature]*
 approved
 AD(SE) *[Signature]*
 office
 STRUCT. ENG. BRANCH

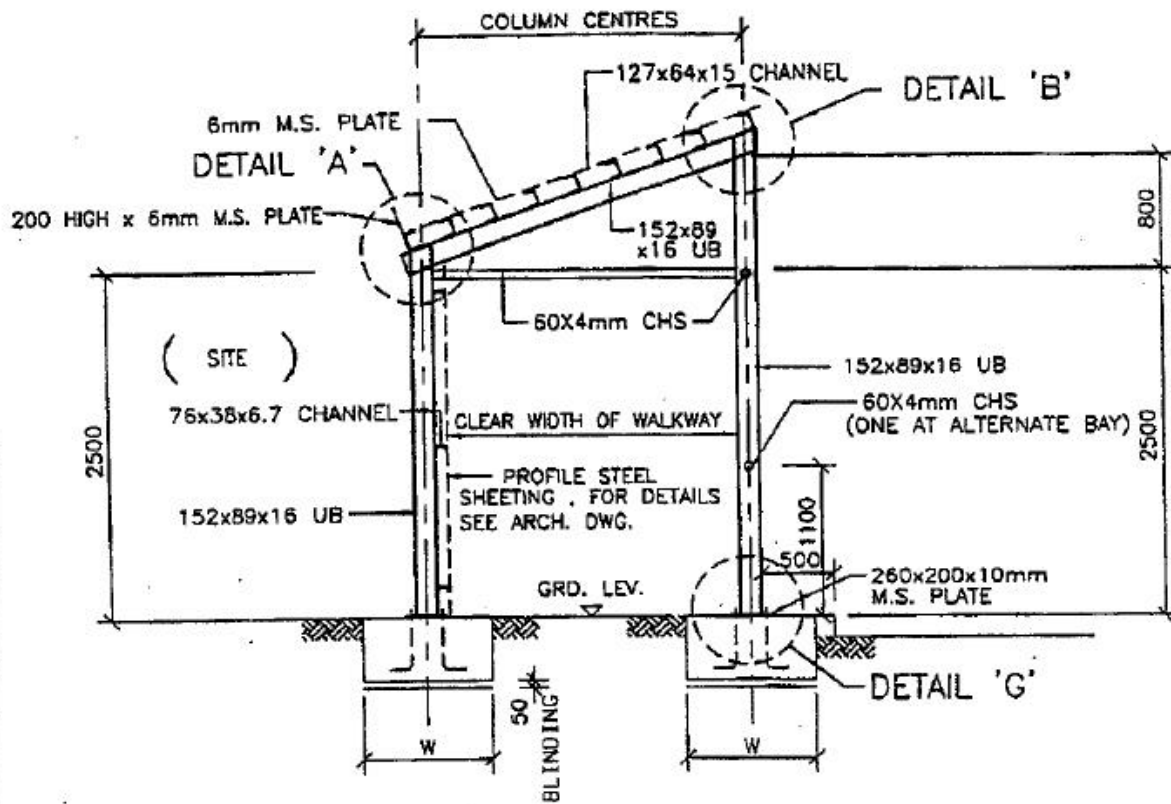
date
 7/6/01
 date
 11.6.01

drawing no.
 HOARDING/5/SK1

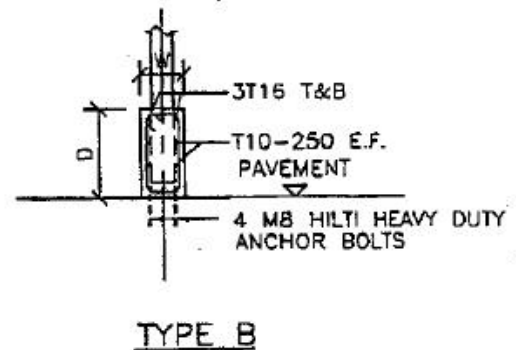
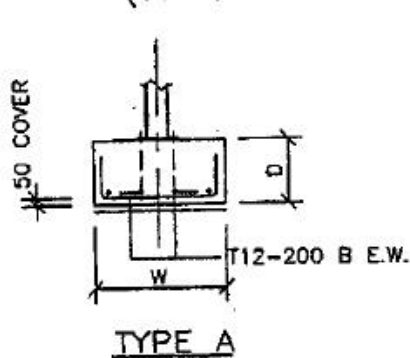
scale
 1 : 50



ARCHITECTURAL
 SERVICES
 DEPARTMENT




A - A
(TYPICAL SECTION OF COVERED WALKWAY)

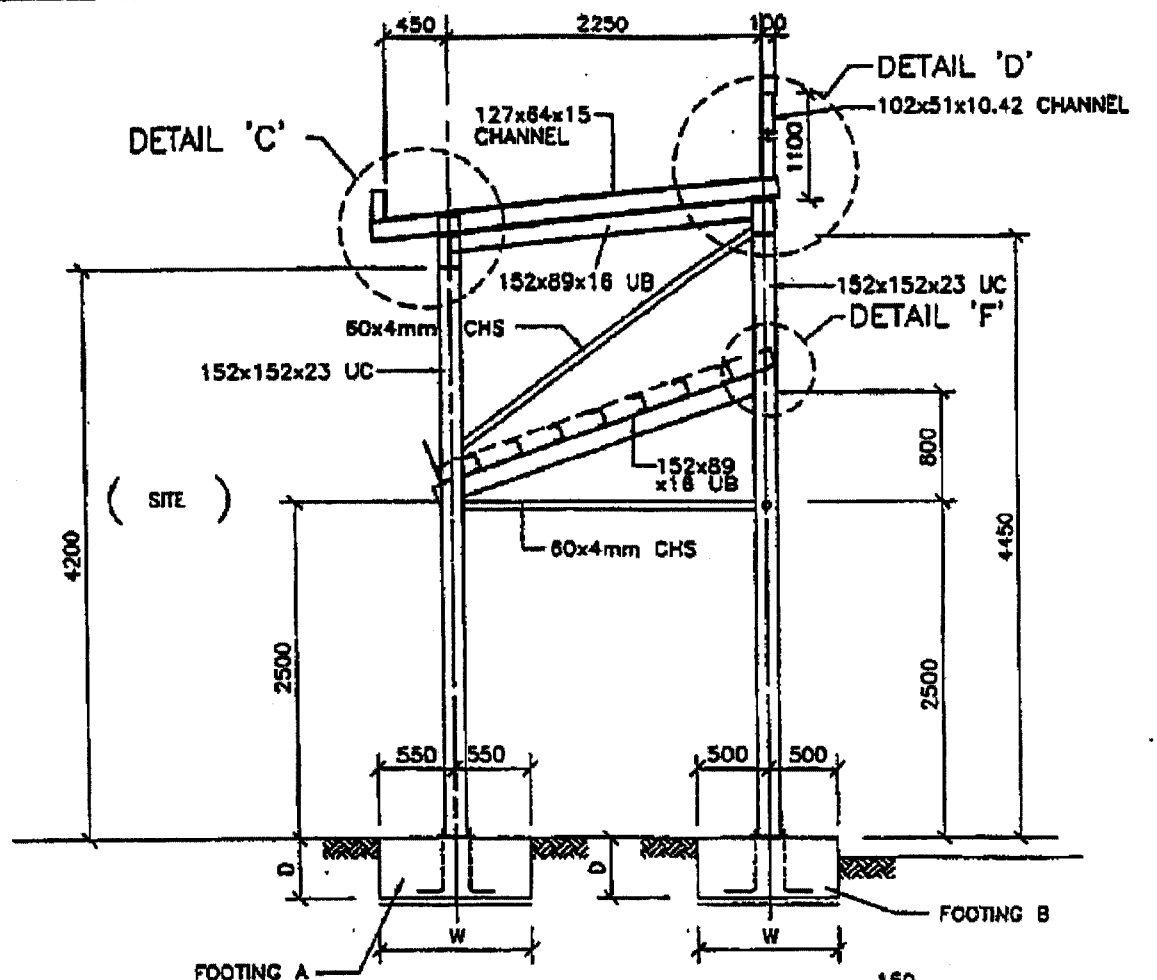


FOOTING SIZES :-

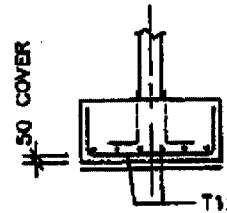
CLEAR WIDTH	COLUMN CENTRES	FOUNDATION BELOW GROUND (L x W x D) mm	R. C. TYPE	ALTERNATIVE FOUNDATION ABOVE GROUND (L x W x D) mm	R. C. TYPE
1.5m WIDE WALKWAY	1.75m	1000 x 700 x 450 DEEP	A	1350 x 300 x 750 DEEP	B
2.0m WIDE WALKWAY	2.25m	700 x 700 x 450 DEEP	A	1350 x 300 x 600 DEEP	B

N.B. : IT IS INTENDED THAT THE FOUNDATION ABOVE GROUND BE COMBINED FOR TWO COLUMNS TO FORM FOUNDATION AT 2700 LONG , SUCH COMBINED FOUNDATION WILL BE LOCATED AT EVERY ALTERNATE BAY.

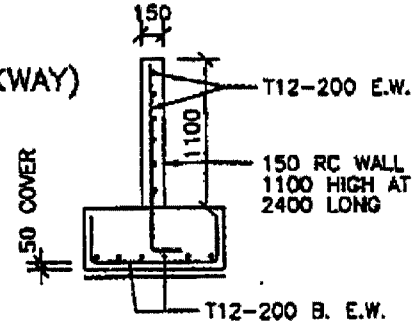
title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/3 <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/5/SK2	scale 1 : 50
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
office STRUCT. ENG. BRANCH				



B - B
(GATEWAY FRAME FOR 2m WIDE WALKWAY)



TYPE A




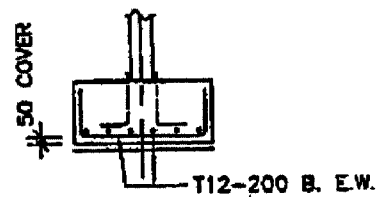
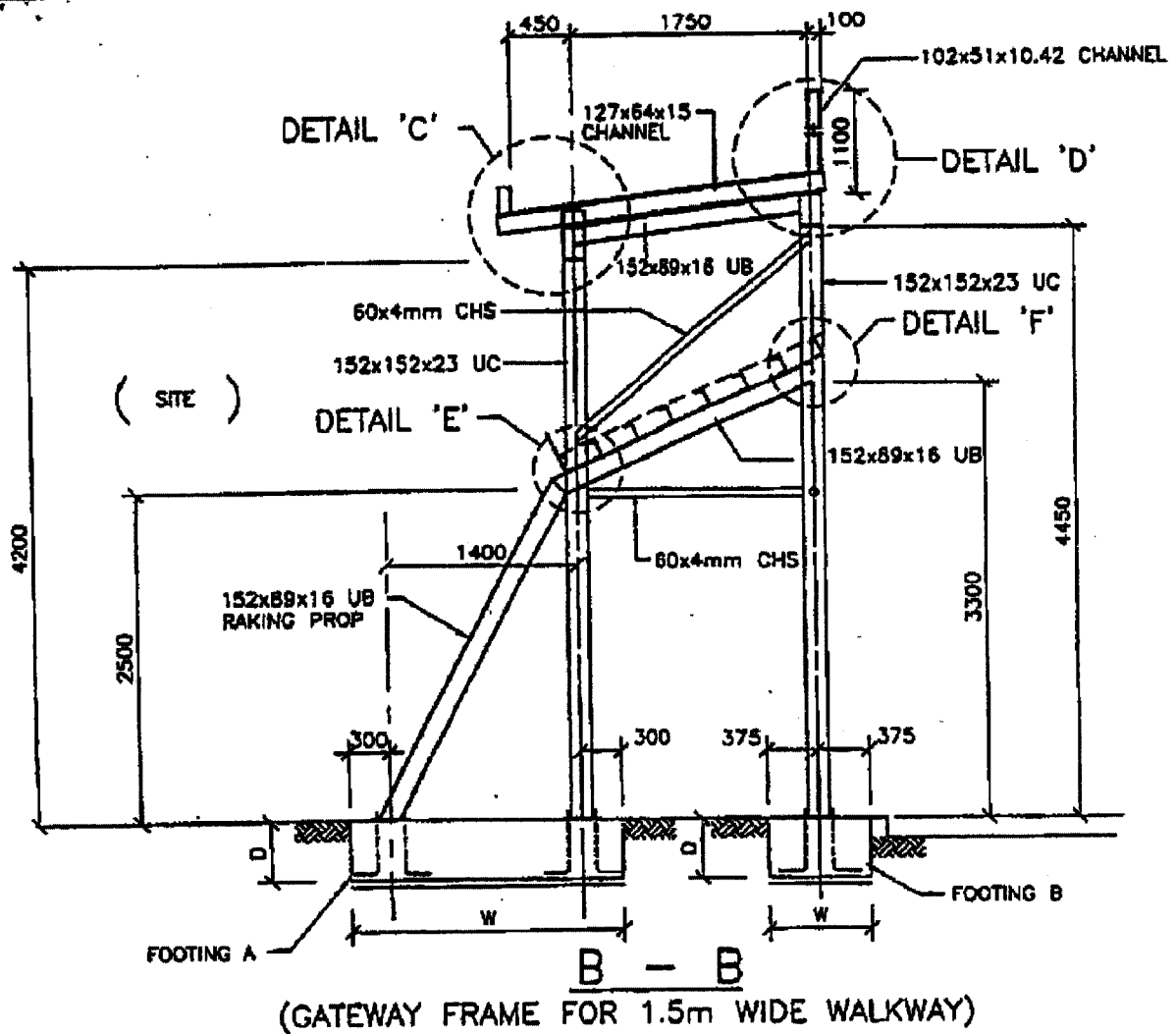
TYPE B

FOOTING SIZES :-

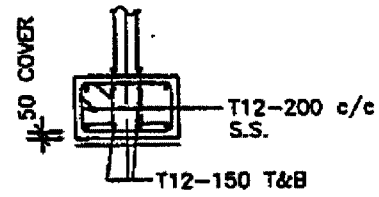
CLEAR WIDTH OF WALKWAY	SIZE OF FOOTING A (L x W x D) mm	R.C. TYPE	SIZE OF FOOTING B (L x W x D) mm	R.C. TYPE
GATEWAY 2.0m	1500 x 1100 x 450 DEEP	A	1600 x 1000 x 450 DEEP	B

- NOTES : 1. SEE HOARDING/5/SK4 FOR GATEWAY FRAME TO 1.5m WIDE WALKWAY.
 2. FOUNDATION BELOW GROUND MAY BE REPLACED BY CONCRETE ABOVE GROUND WITH EQUIVALENT VOLUME OF CONCRETE SIMILAR TO WALKWAY FRAME IN SECTION A-A.

title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/3 <i>Mhe</i>	date 7/6/01	drawing no. HOARDING/5/SK3	scale 1 : 50
	approved AD(SE) <i>Jmllh</i>	date 11.6.01	<div style="text-align: center;">  ARCHITECTURAL SERVICES DEPARTMENT </div>	
	office STRUCT. ENG. BRANCH			



TYPE A




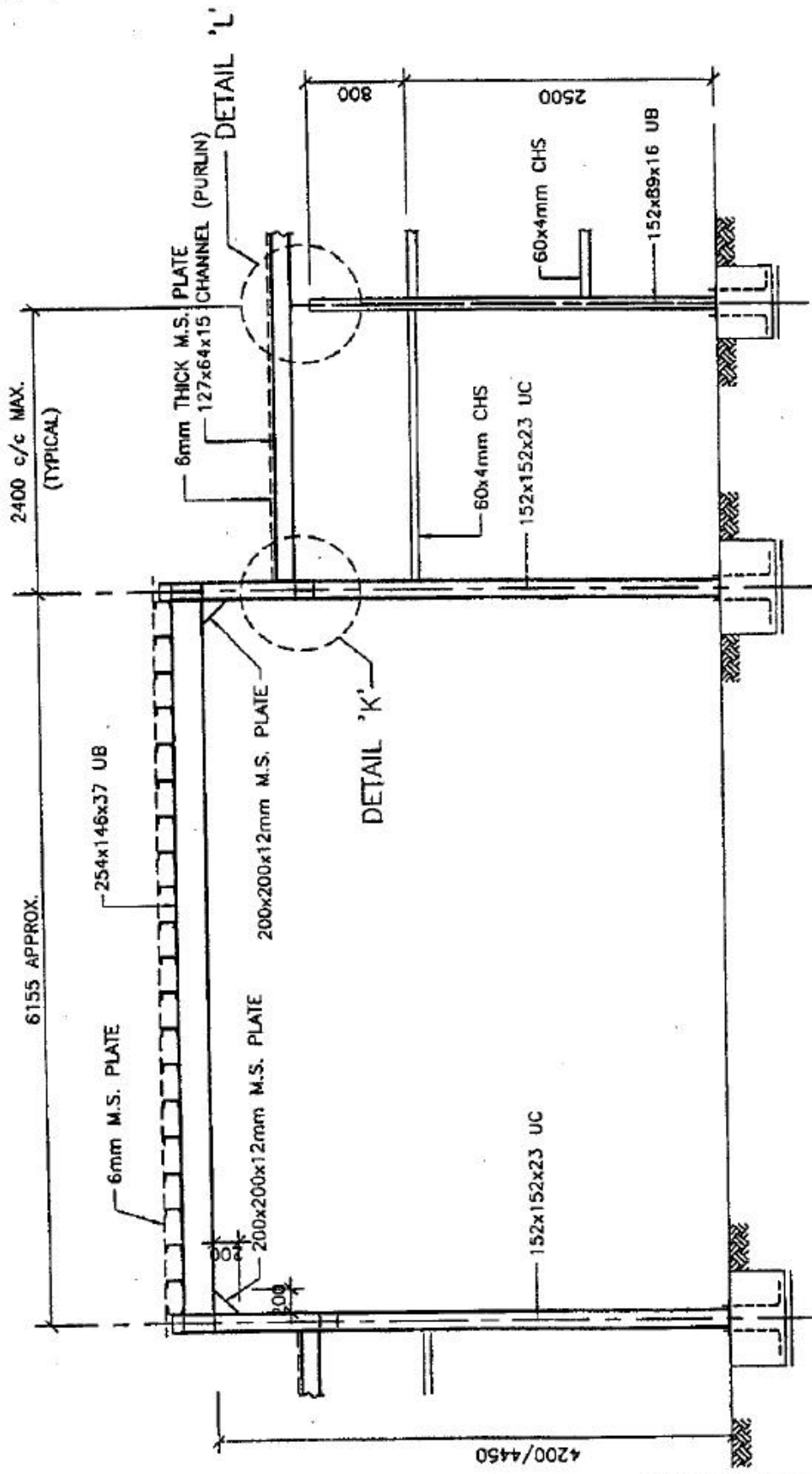
TYPE B

FOOTING SIZES :-

CLEAR WIDTH OF WALKWAY	SIZE OF FOOTING A (L x W x D) mm	R.C. TYPE	SIZE OF FOOTING B (L x W x D) mm	R.C. TYPE
GATEWAY 1.5m	800 x 2000 x 450 DEEP	B	900 x 750 x 450 DEEP	A


- NOTES: 1. SEE HOARDING/5/SK3 FOR GATEWAY FRAME TO 2m WIDE WALKWAY.
 2. FOUNDATION BELOW GROUND MAY BE REPLACED BY CONCRETE ABOVE GROUND WITH EQUIVALENT VOLUME OF CONCRETE SIMILAR TO WALKWAY FRAME IN SECTION A-A.

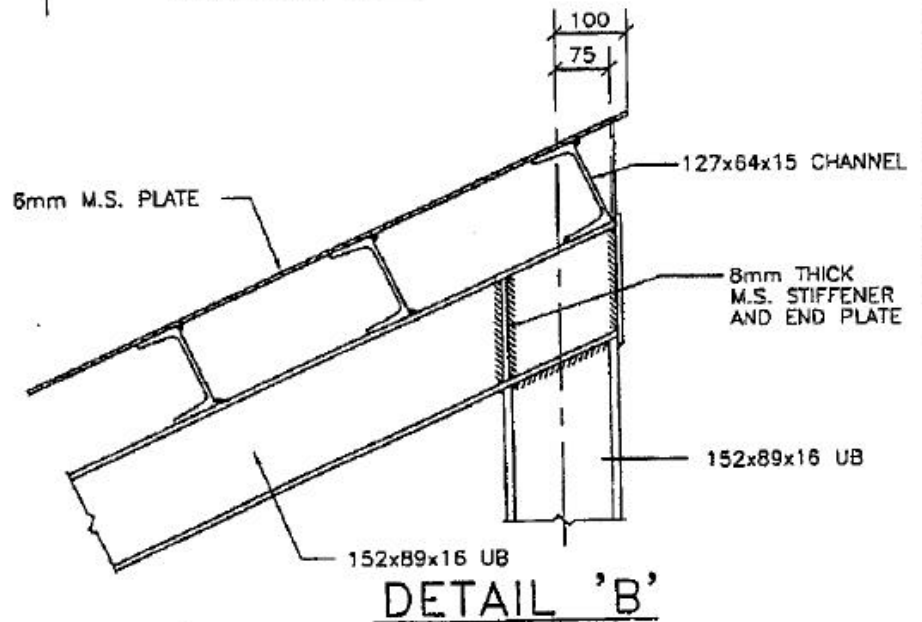
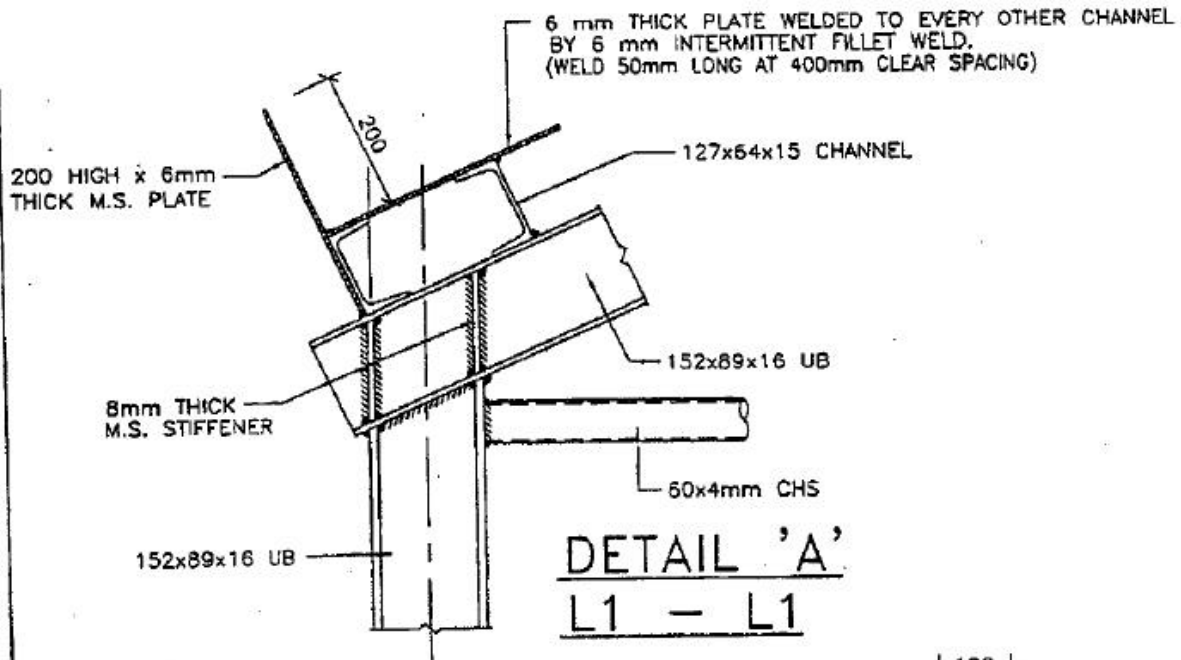
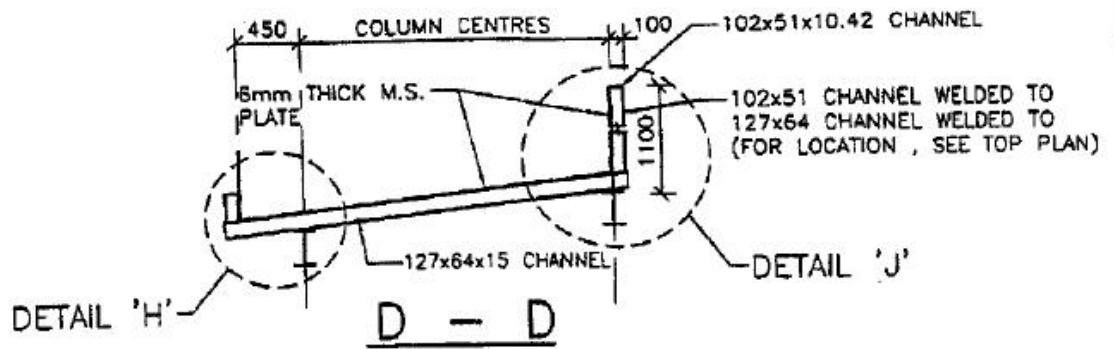
Title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/S <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/5/SK4	scale 1 : 50
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			




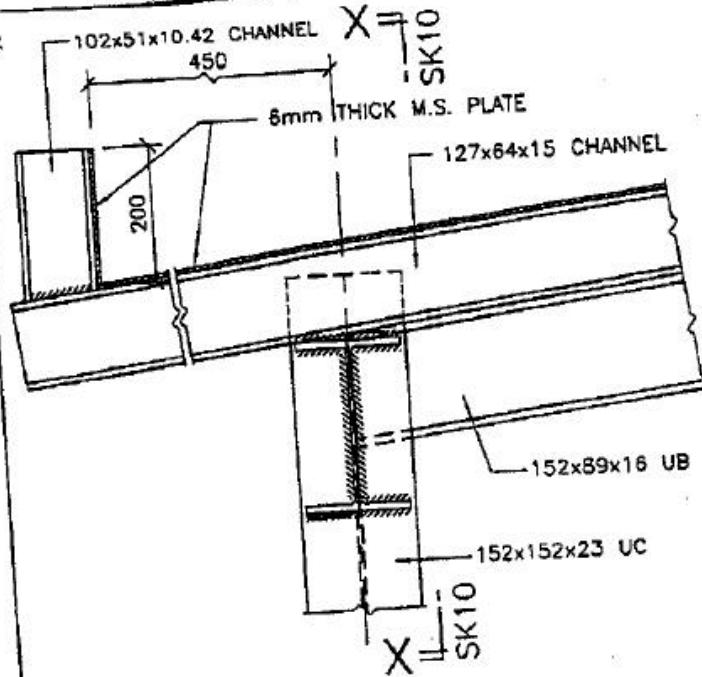
C - C

NOTE : 6mm ROOF MILD STEEL PLATE CONNECTED TO EVERY OTHER PURLIN BY 6mm INTERMITTENT FILLET WELD - 50mm LONG WELD AT 400mm CLEAR SPACING

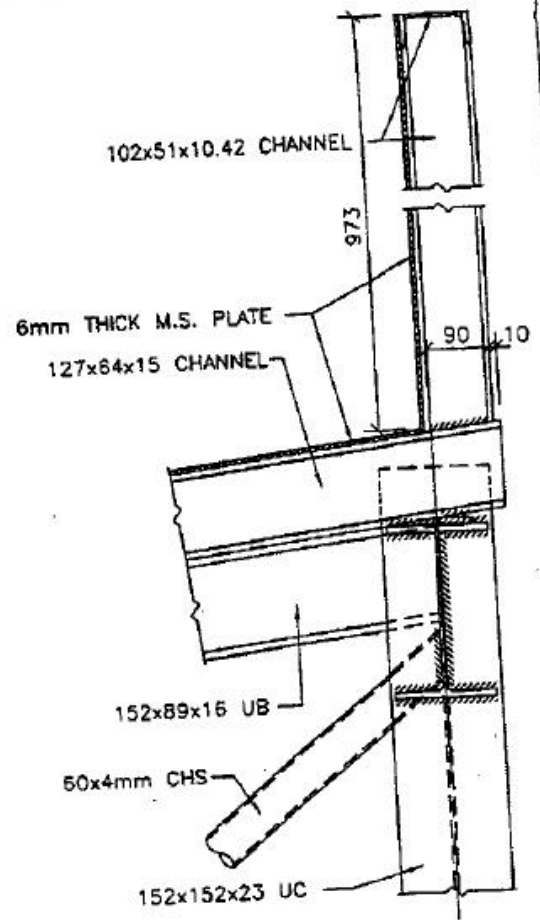
title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/3 <i>[Signature]</i>	date 7/6/61	drawing no. HOARDING/5/SK5	scale 1 : 50
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			



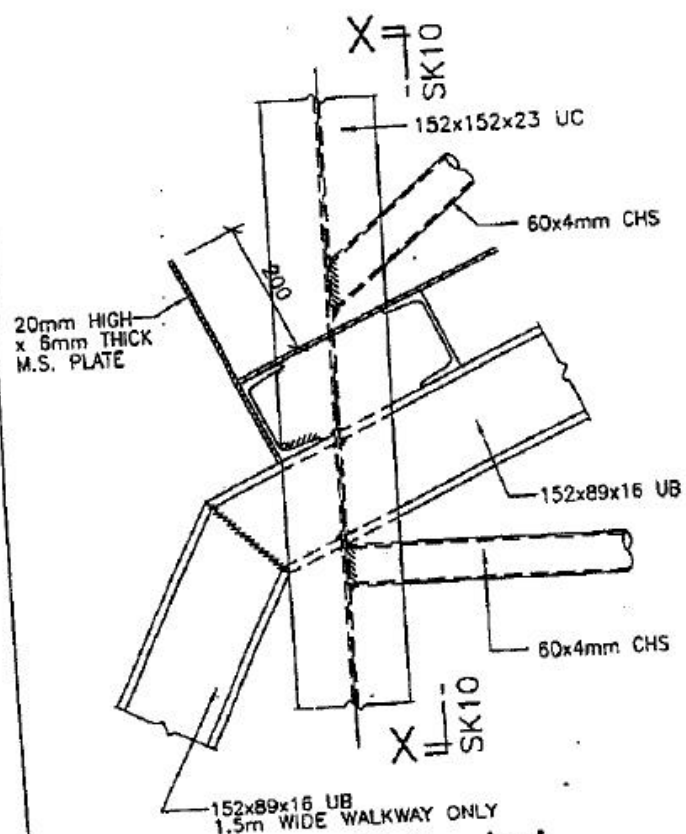
title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/S <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/5/SK6	scale 1 : 10
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			



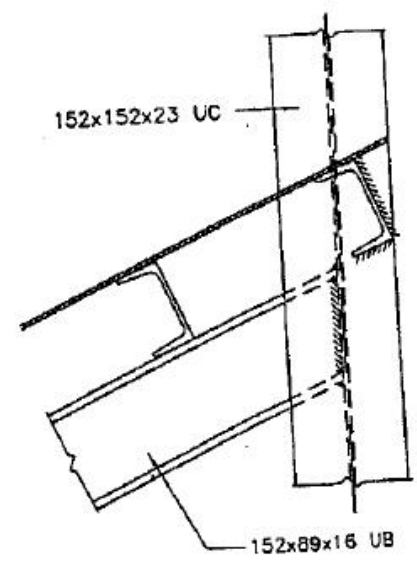
DETAIL 'C'




DETAIL 'D'

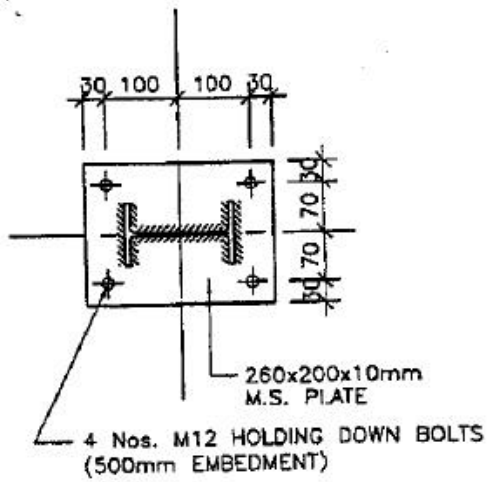


DETAIL 'E'

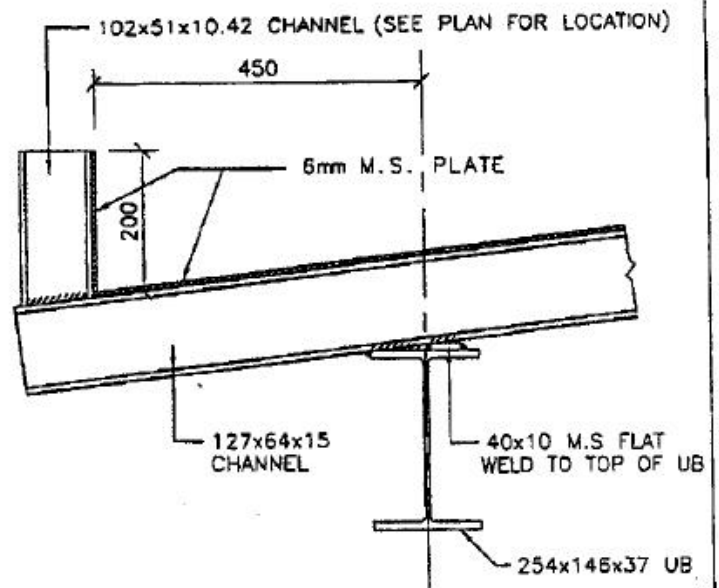


DETAIL 'F'

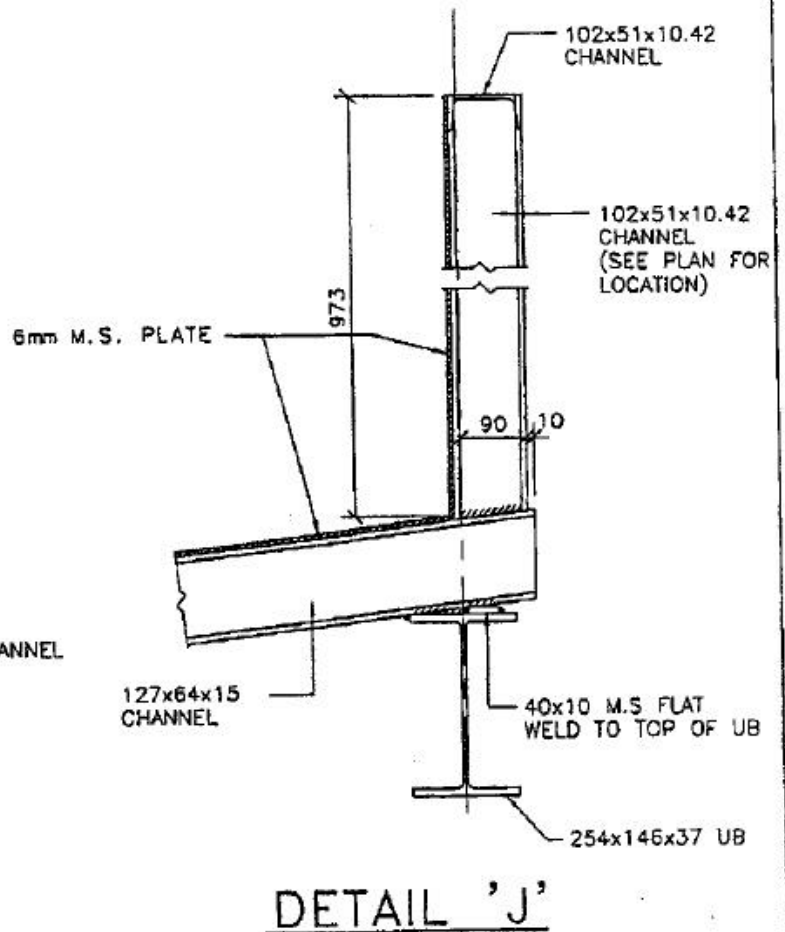
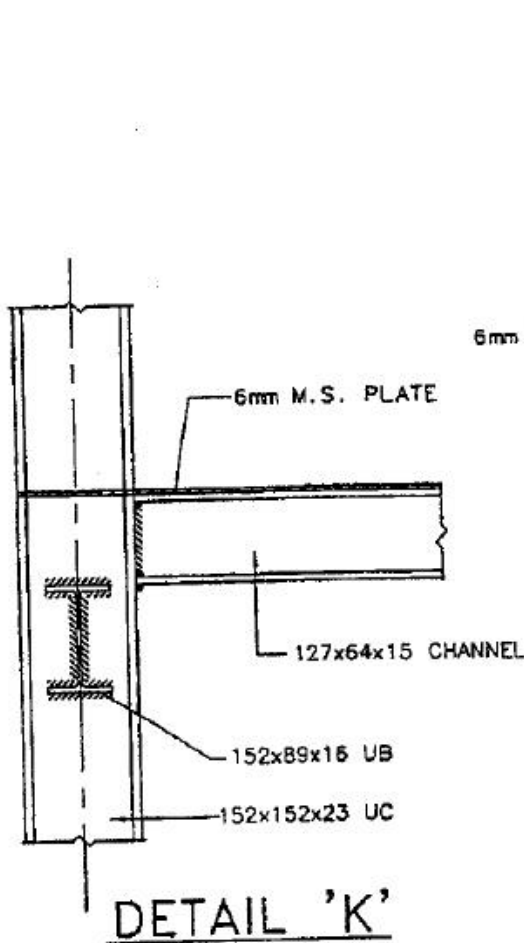
title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/3 <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/5/SK7	scale 1 : 50
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			




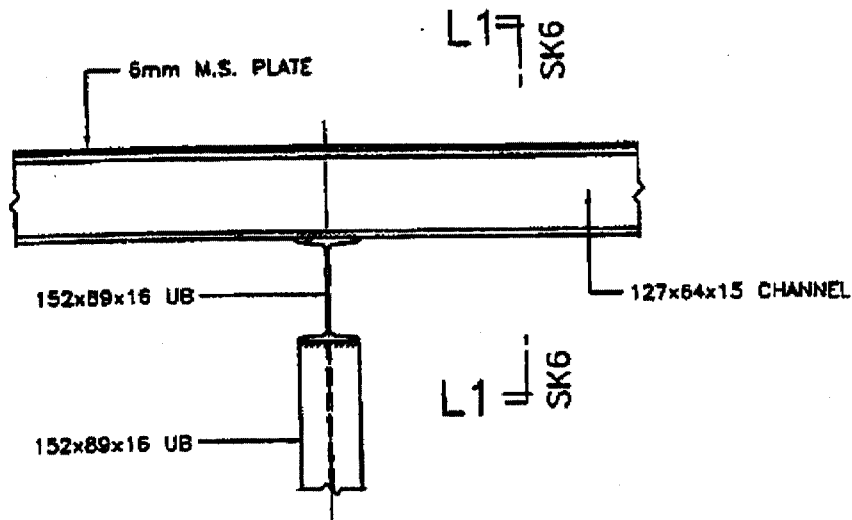
DETAIL 'G'



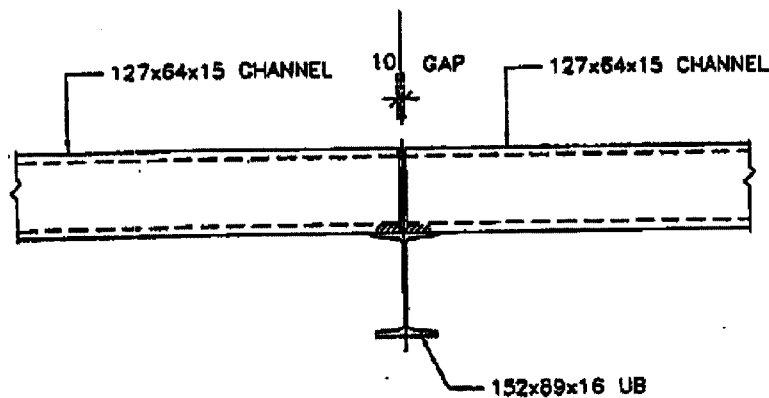
DETAIL 'H'




title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/3 <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/5/SK8	scale 1 : 10
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			

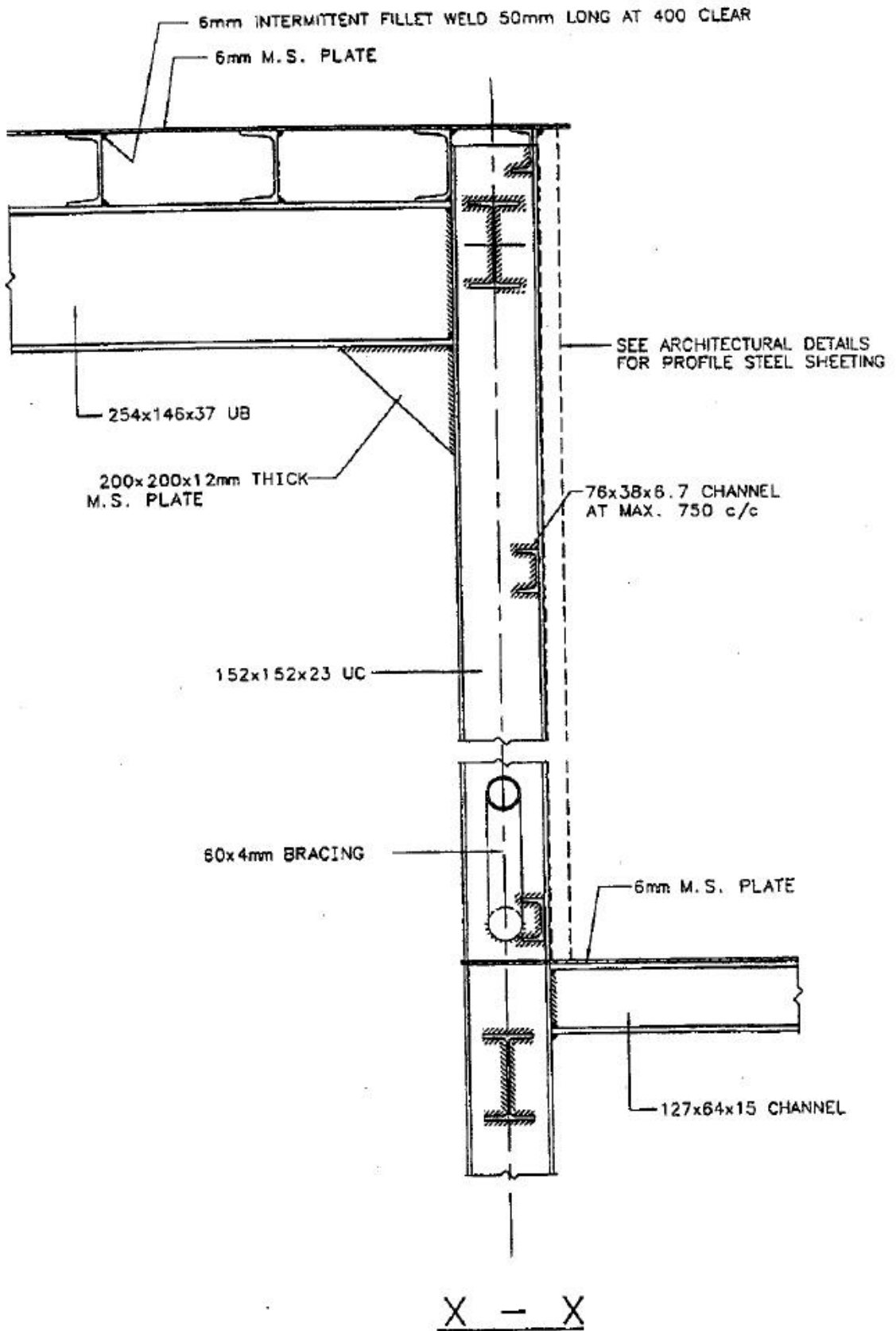



DETAIL 'L'

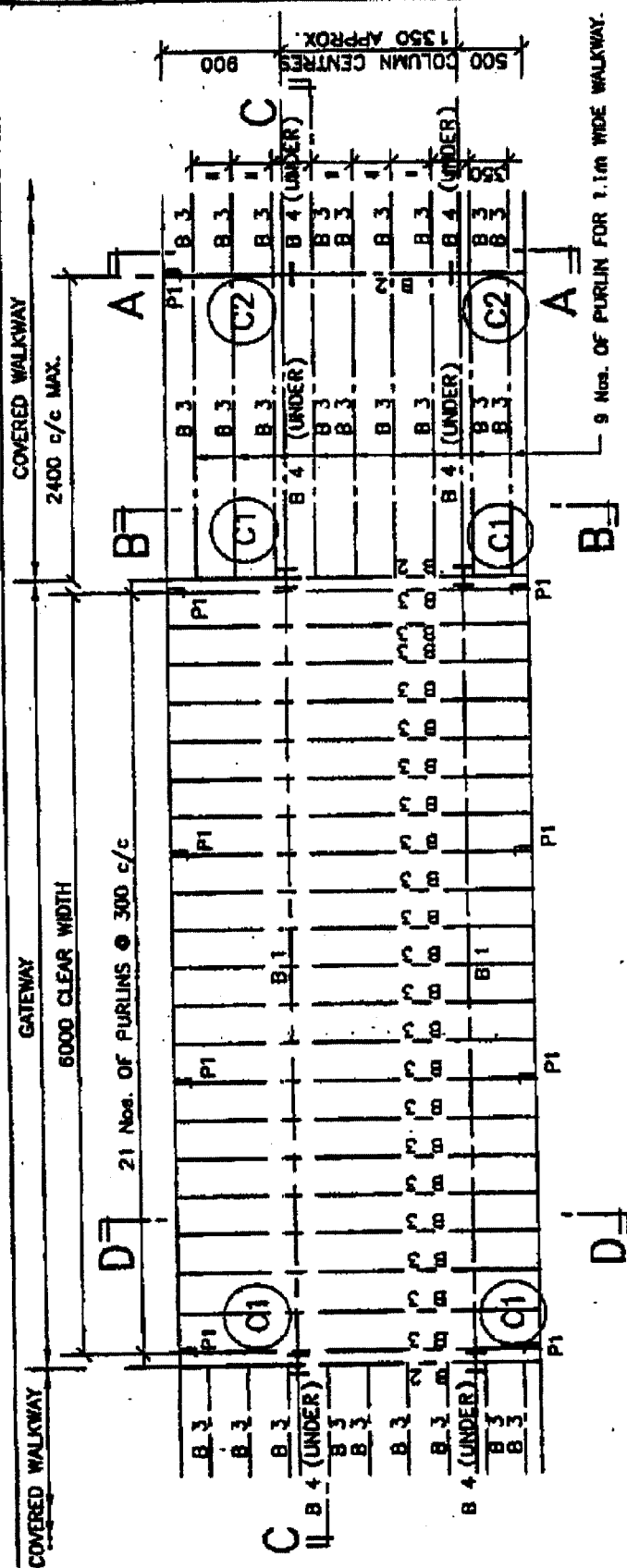


TYPICAL SPLICING DETAILS OF PURLIN

HHS 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m. (TYPE 5)	checked CSE/3 <i>Whe</i>	date 7/6/01	drawing no. HOARDING/5/SK9	scale 1 : 10
	approved AD(SE) <i>Smith</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			



title 1.5m & 2.0m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 5)	checked CSE/S <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/5/SK10	scale 1 : 10
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			



TOP PLAN OF GATEWAY AND COVERED WALKWAY

- NOTES :
1. FOR 1.35m COLUMN CENTRES APPROX. WITH 1.1m CLEAR WIDTH OF WALKWAY.
 2. ALL WELDING TO BE 6 mm F.W. ALL ROUND IN ACCORDANCE WITH BS 5135:1984 UNLESS OTHERWISE STATED.
 3. ALL BOLTS TO BE GRADE 4.6 BLACK BOLTS TO BS 4190.
 4. ALL STRUCTURAL SECTIONS SHALL BE WELDABLE STRUCTURAL STEEL OF GRADE 43A UNLESS OTHERWISE SPECIFIED.
 5. THE DETAILS OF GATEWAY MAY BE MODIFIED BY PROJECT OFFICER TO SUIT ACTUAL SITE CONDITIONS.
 6. PROTECTIVE COATINGS TO ALL STRUCTURAL STEELWORK SHALL BE TYPE A IN TABLE 15.3 OF THE G.S. SUBMIT PANT MANUFACTURER'S DATA SHEET FOR APPROVAL BEFORE USE.

STEEL MEMBER SCHEDULE

MEMBER MARK	MEMBER SIZE
C 1	152 x 152 x 23 UC
C 2	152 x 89 x 16 UB
B 1	254 x 146 x 37 UB
B 2	178 x 102 x 19 UB
B 3	127 x 64 x 15 CHANNEL
B 4	152 x 89 x 16 UB
P 1	102 x 51 CHANNEL


THE SKETCHES ARE PREPARED TO MEET THE GENERAL REQUIREMENTS AS SPECIFIED IN PNP224 ISSUED BY BD. SIZES OF FOOTINGS MAY BE MODIFIED BY PSE TO SUIT ACTUAL SITE CONDITIONS.

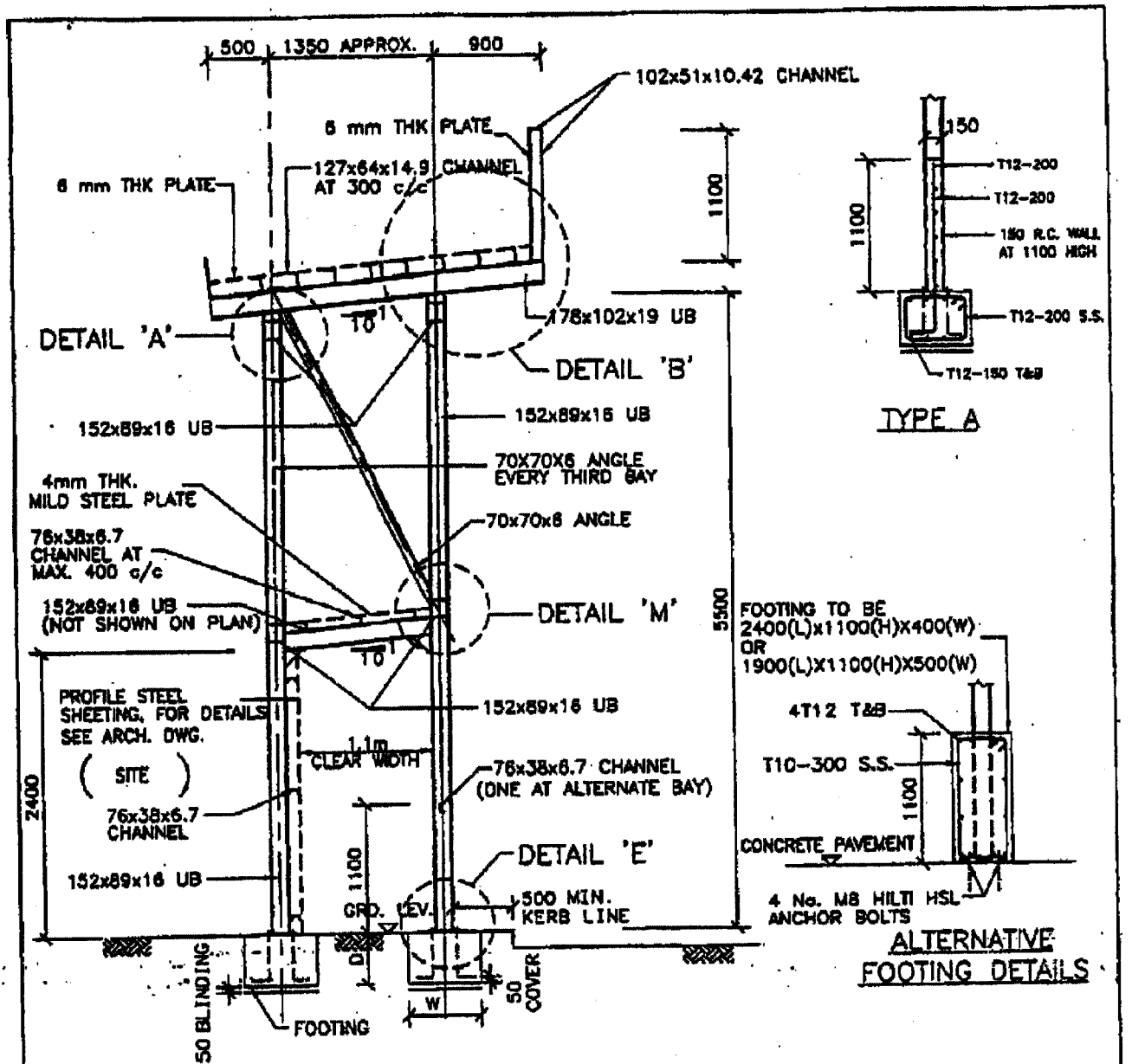
file
1.1m WIDE
HOARDING AND
COVERED WALKWAY FOR
BUILDING HEIGHT EXCEED 30m
(TYPE B)

checked
CSE/3 *M. Mac*
approved
AO(SE) *J. Smith*
office
STRUCT. ENG. BRANCH

date
7/6/01
date
11.6.01

drawing no.
HOARDING/6/SK1
scale
1 : 50
ARCHITECTURAL
SERVICES
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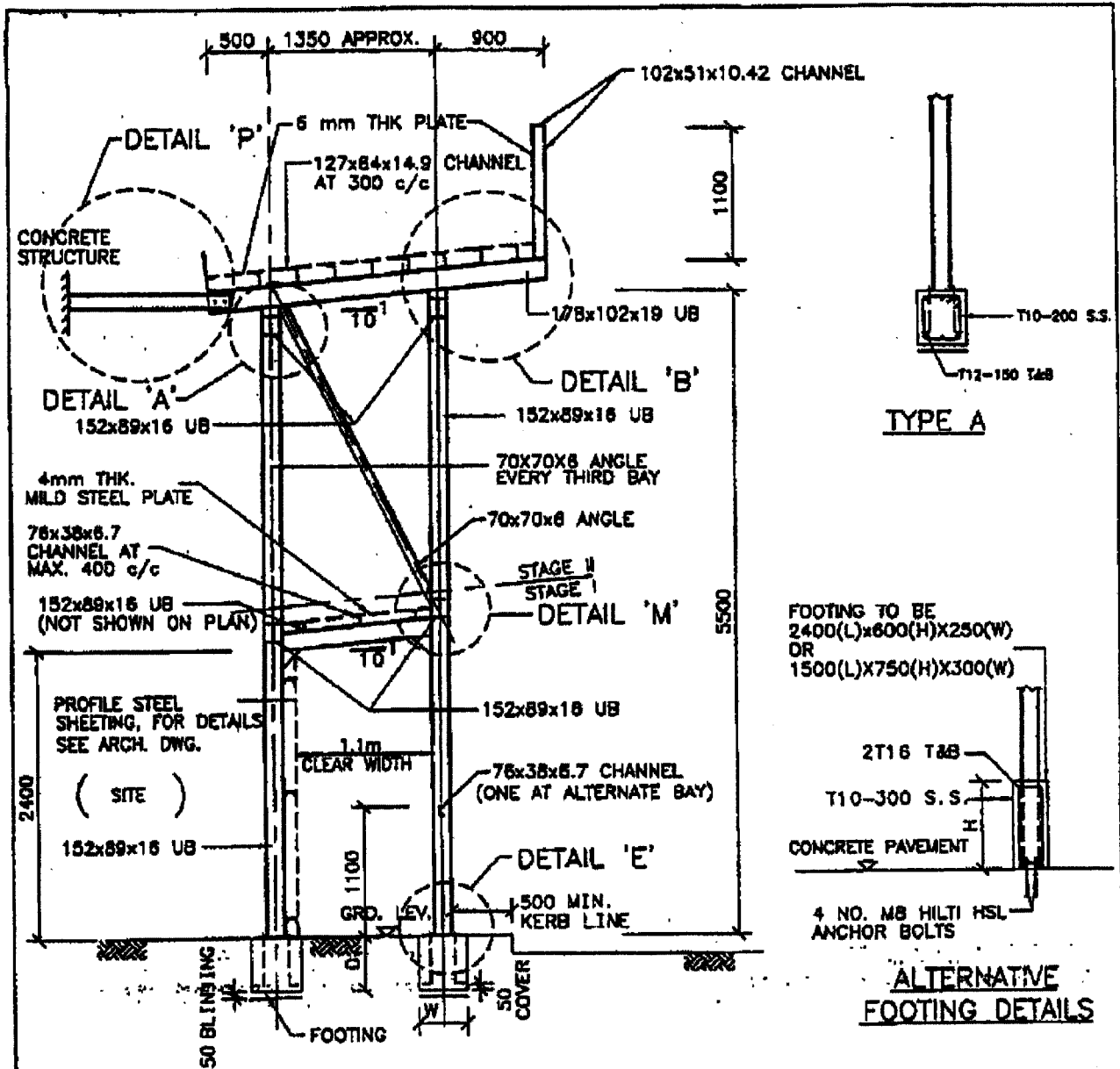
A - A
(TYPICAL SECTION OF COVERED WALKWAY)

SCHEDULE OF FOOTING SIZE :-

CLEAR WIDTH	COLUMN CENTRES	SIZE OF FOOTING (L x W x D) (mm)	RC TYPE
1.1m WIDE WALKWAY	1.35 m	2400 x 800 x 450 DEEP	A

- NOTES : 1. FOR 1.1 m WIDE WALKWAY, THE 150 mm PARAPET NEAR THE KERB SIDE MAY BE REPLACED BY 300 mm R.C. PARAPET INFILL AT ALTERNATE BAYS.
 2. WHERE THE HOARDING CAN BE TIED AT CATCH PLATFORM LEVEL SEE SKETCH SK3.

Title 1.1m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 6)	checked GSE/3 <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/6/SK2	scale 1 : 50
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
	office STRUCT. ENG. BRANCH			




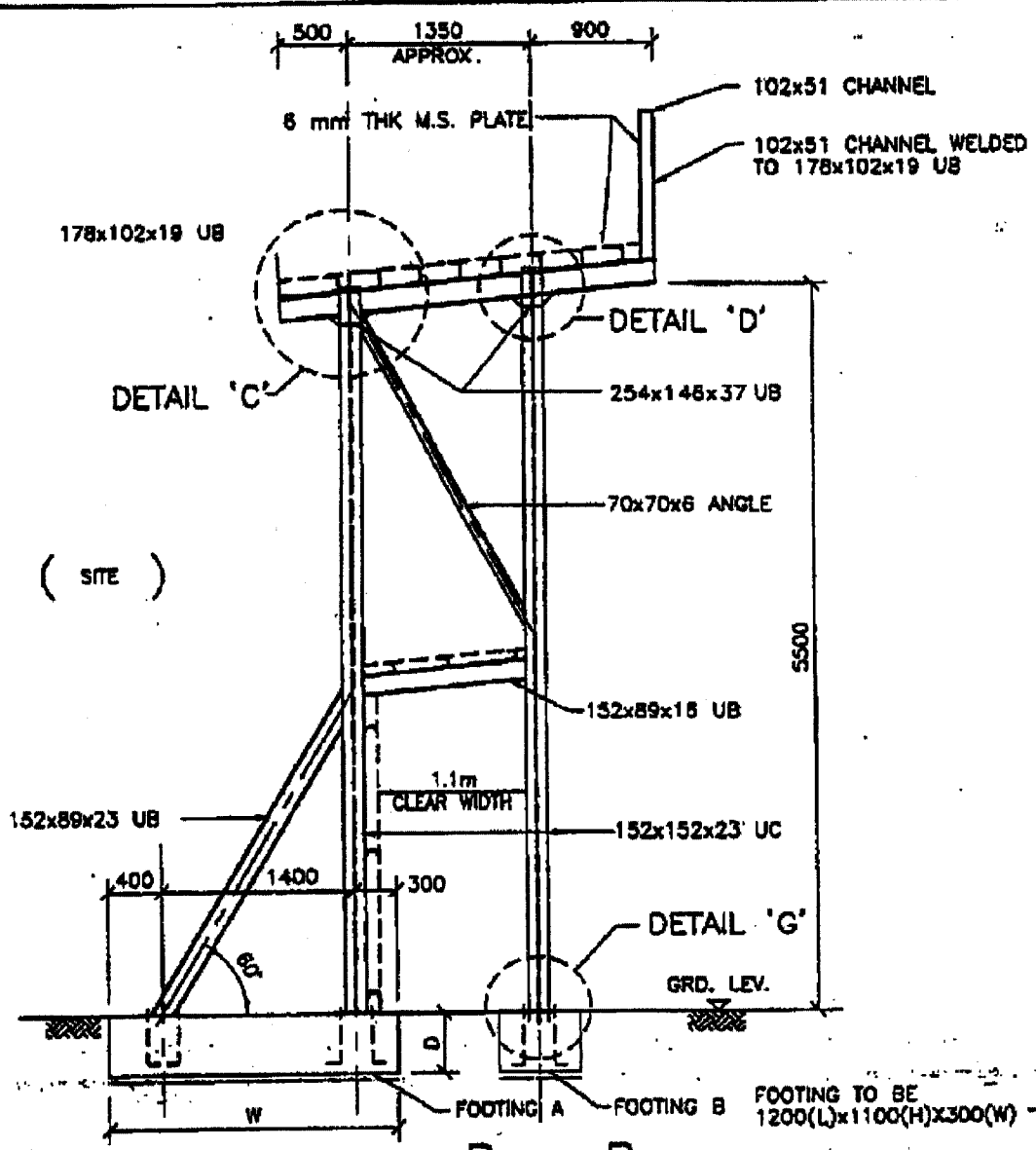
A - A
 (TYPICAL SECTION OF COVERED WALKWAY WITH TIES/PROPS AT CATCH PLATFORM LEVEL)

SCHEDULE OF FOOTING SIZE :-

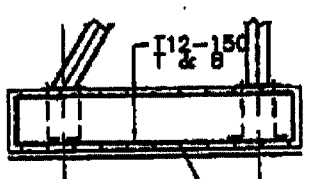
CLEAR WIDTH	COLUMN CENTRES	SIZE OF FOOTING (L x W x D) (mm)	RC TYPE
1.1m WIDE WALKWAY	1.35 m	1500 x 400 x 450 DEEP	A

NOTE : 1. STAGE II CONSTRUCTION MAY BE ADDED WHEN TIES/PROPS TO NEW BUILDING CAN BE ADDED AND MUST BE COMPLETED BEFORE HEIGHT OF NEW CONSTRUCTION EXCEEDS 30m FROM GROUND LEVEL.

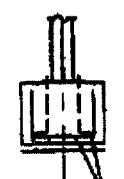
title 1.1m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 6)	checked CSE/S <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/6/SK3	scale 1 : 50
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
office STRUCT. ENG. BRANCH				



B - B
(GATEWAY FRAME)

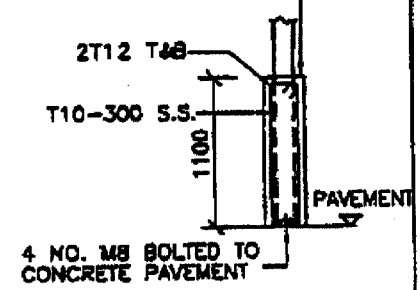


TYPE B



TYPE C

FOOTING TO BE
1200(L)x1100(H)x300(W)



**ALTERNATIVE TYPE C
FOOTING DETAILS**

SCHEDULE OF FOOTING SIZE :-

	SIZE OF FOOTING A (L x W x D) (mm)	RC TYPE	SIZE OF FOOTING B (L x W x D) (mm)	RC TYPE
GATEWAY FRAME	1500 x 2100 x 450 DEEP	B	1300 x 800 x 450 DEEP	C

Site
1.1m WIDE
HOARDING AND
COVERED WALKWAY FOR
BUILDING HEIGHT EXCEED 30m
(TYPE 6)

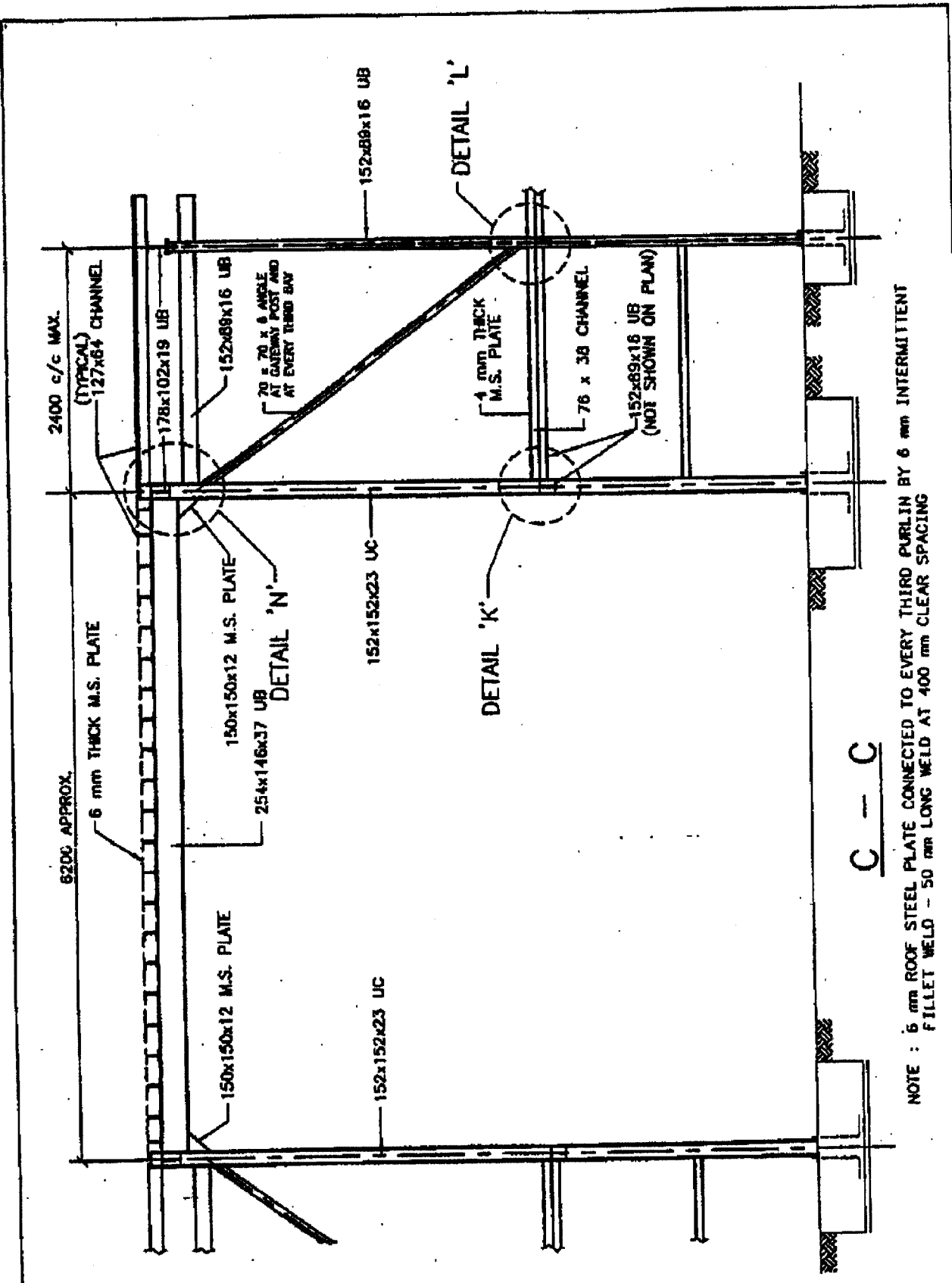
checked
CSE/S *Mh*
approved
AD(SE) *Jull*
office
STRUCT. ENG. BRANCH

drawing no.
HOARDING/6/SK4


scale
1 : 50

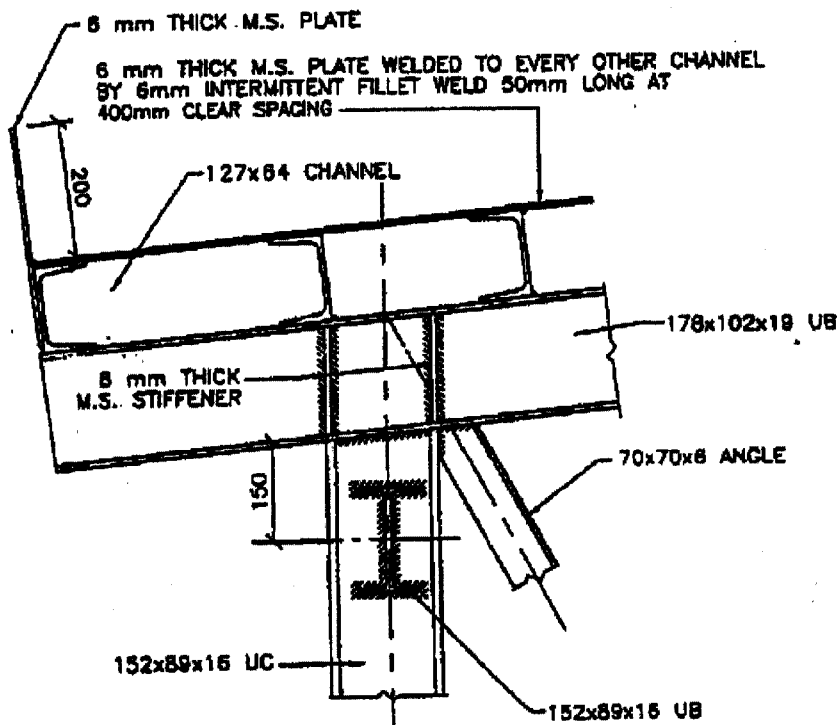
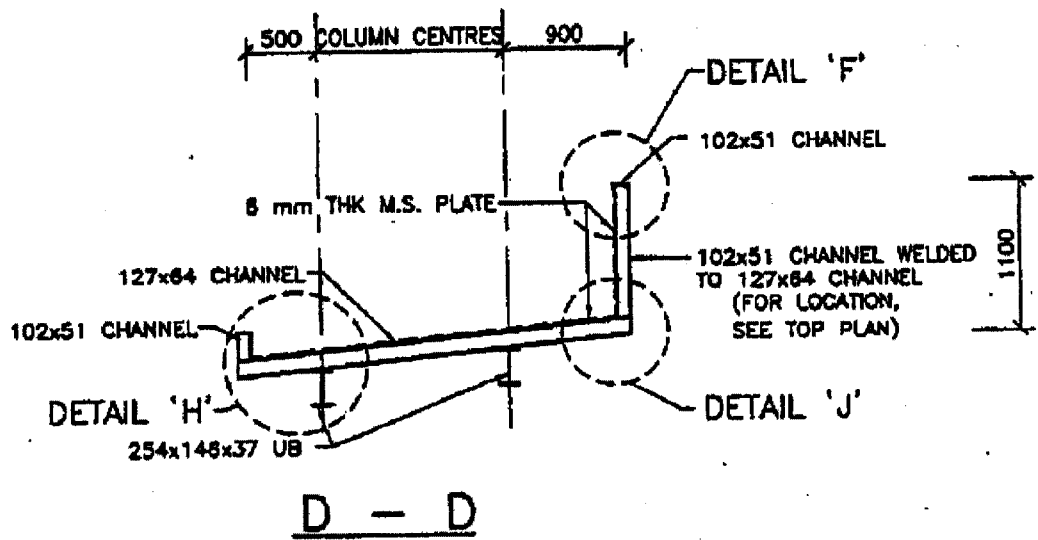



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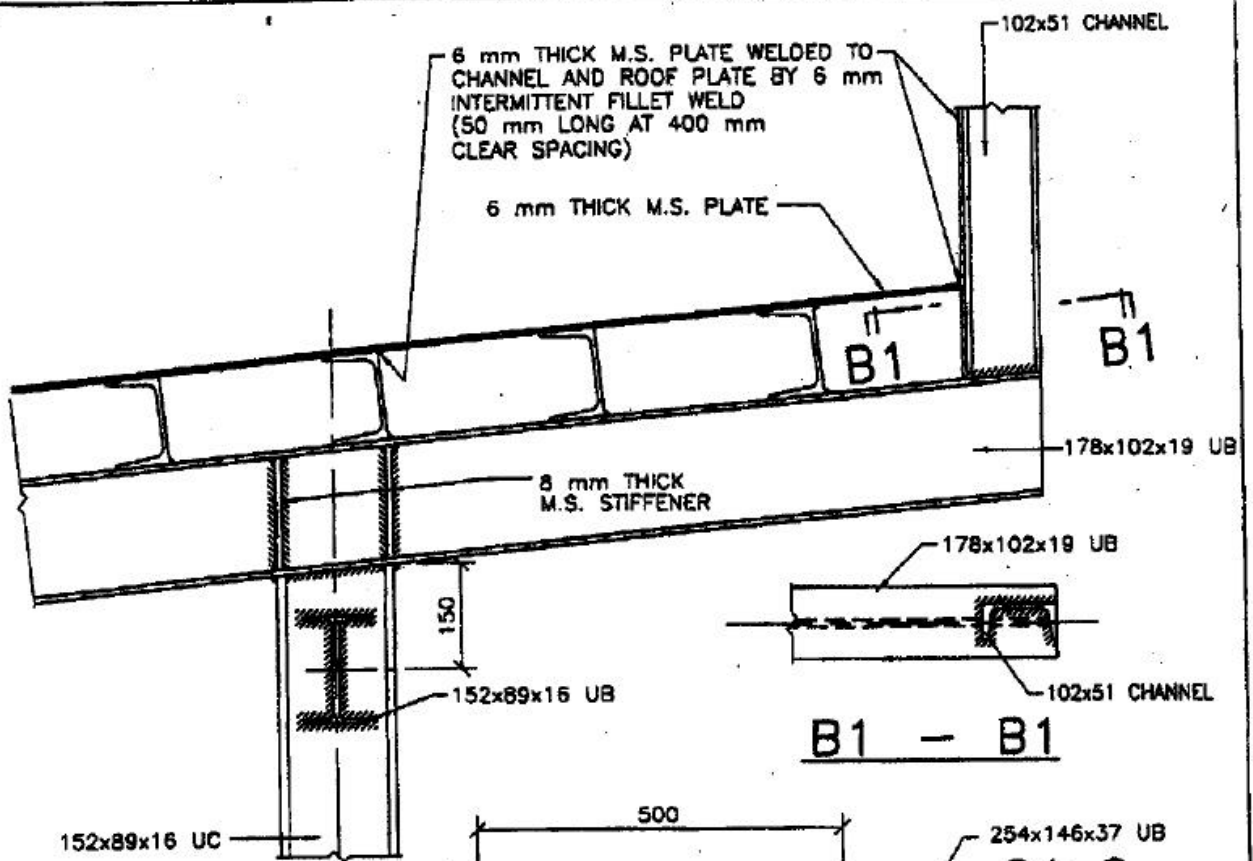


NOTE : 6 mm ROOF STEEL PLATE CONNECTED TO EVERY THIRD PURLIN BY 6 mm INTERMITTENT FILLET WELD - 50 mm LONG WELD AT 400 mm CLEAR SPACING

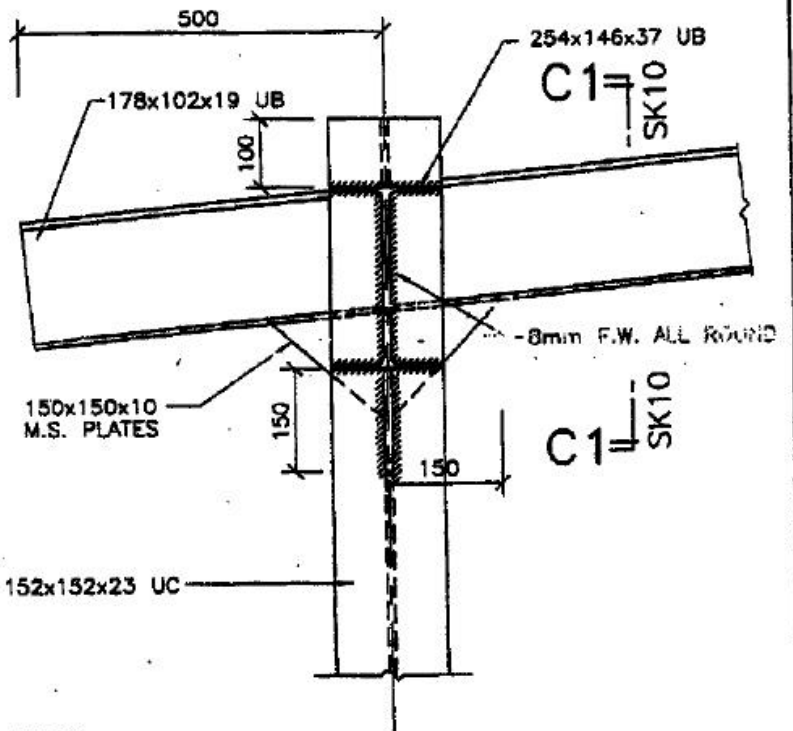
Title 1.1m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 6)	checked CSE/S	date 7/6/01	drawing no. HOARDING/6/SK5	scale 1 : 50
	approved AD(SE)	date 11.6.01	<div style="text-align: center;">  ARCHITECTURAL SERVICES DEPARTMENT </div>	
	office STRUCT. ENG. BRANCH			



title 1.1m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 6)	checked CSE/3 <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/6/SK6	scale 1 : 10
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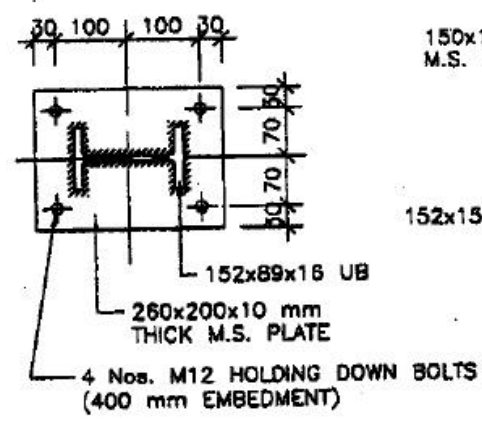


DETAIL 'B'




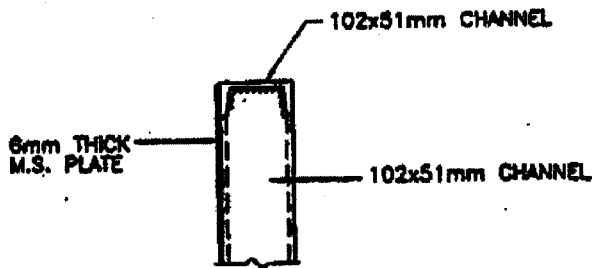
DETAIL 'C'
DETAIL 'D' SIMILAR

PURLIN NOT SHOWN FOR CLARITY

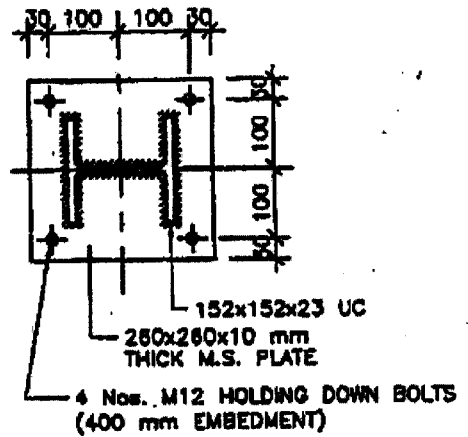


DETAIL 'E'

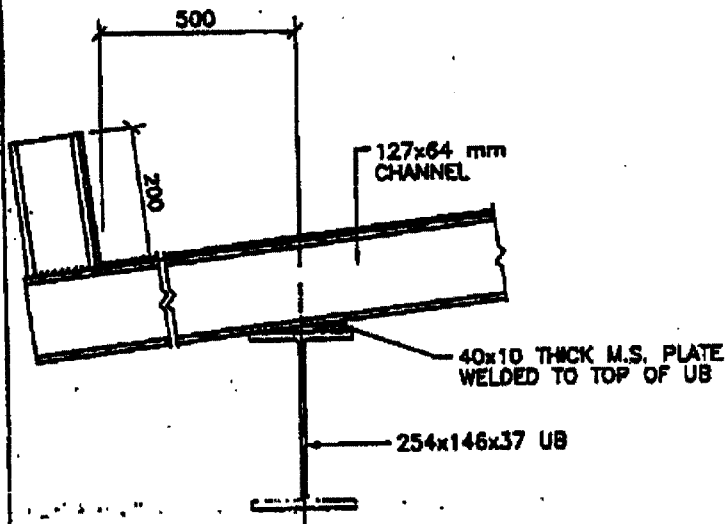
Title 1.1m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 6)	checked CSE/3 <i>[Signature]</i>	date 7/6/01	drawing no. HOARDING/6/SK7	scale 1 : 10
	approved AD(SE) <i>[Signature]</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
office STRUCT. ENG. BRANCH				



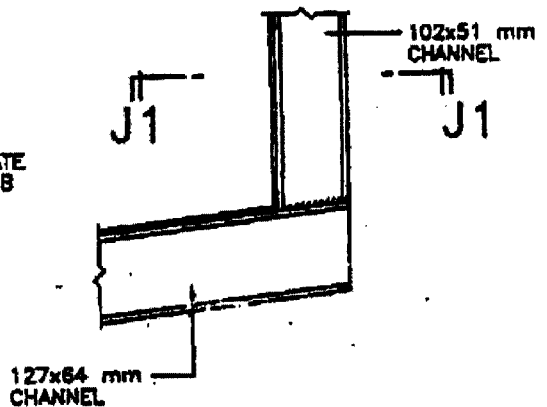
DETAIL 'F'



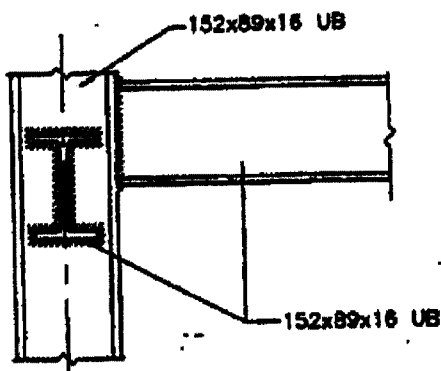
DETAIL 'G'



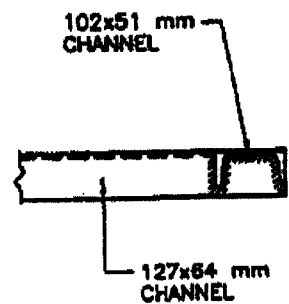
DETAIL 'H'




DETAIL 'J'

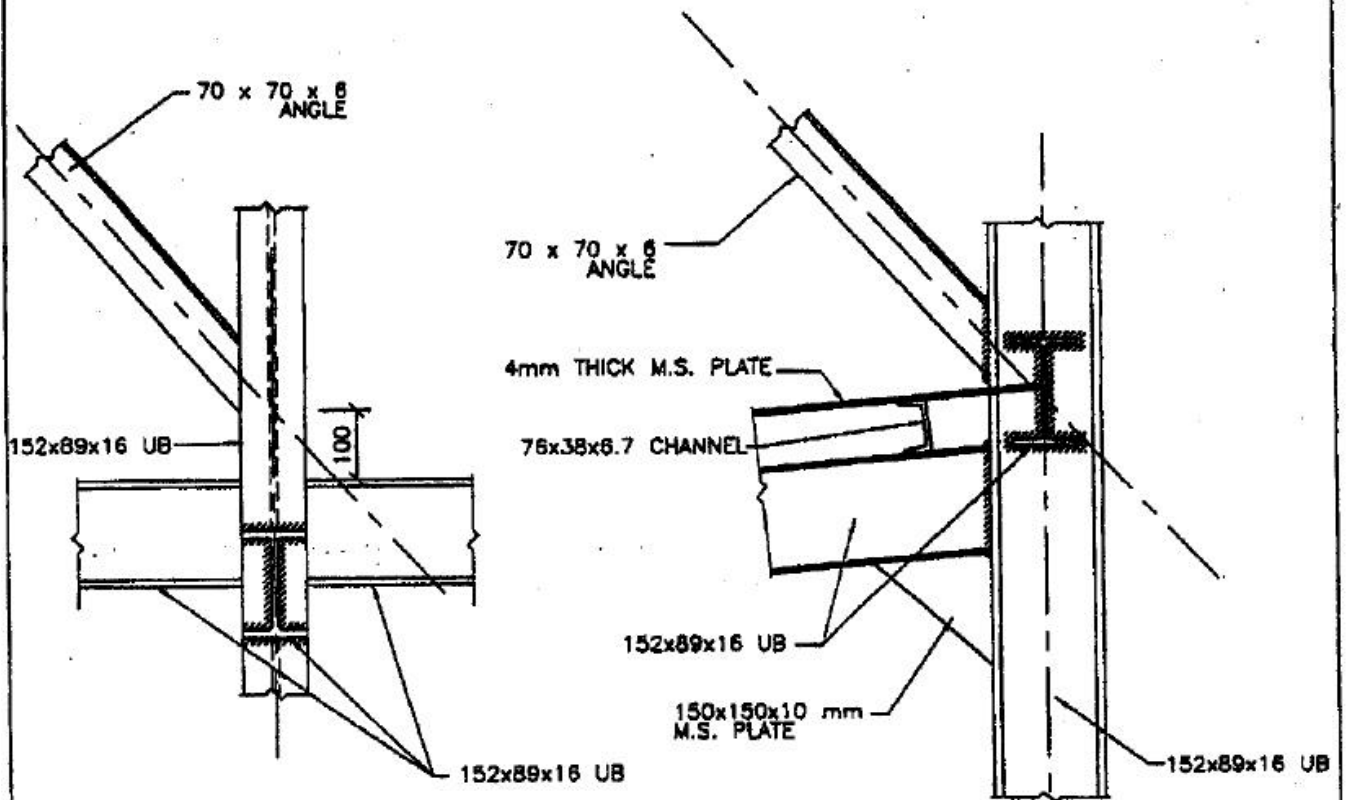


DETAIL 'K'
(PURLIN NOT SHOWN FOR CLARITY)



J1 - J1

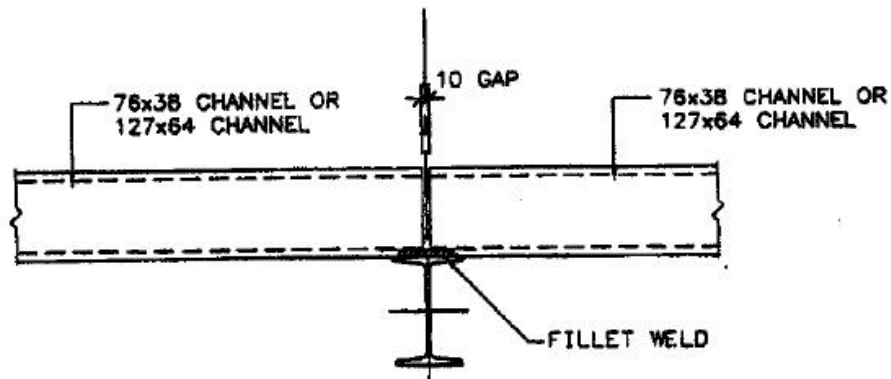
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	approved AD(SE) <i>[Signature]</i>	date 11.5.01	 ARCHITECTURAL SERVICES DEPARTMENT	
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DETAIL 'L'

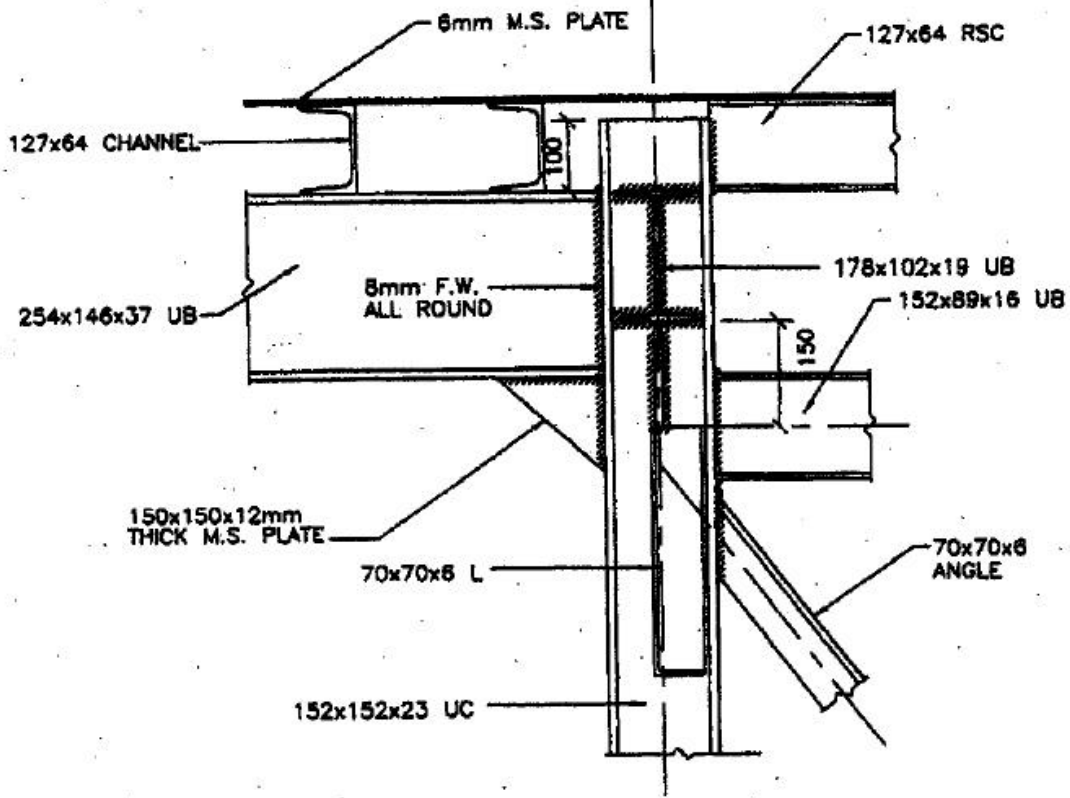
PURLIN NOT SHOWN FOR CLARITY

DETAIL 'M'

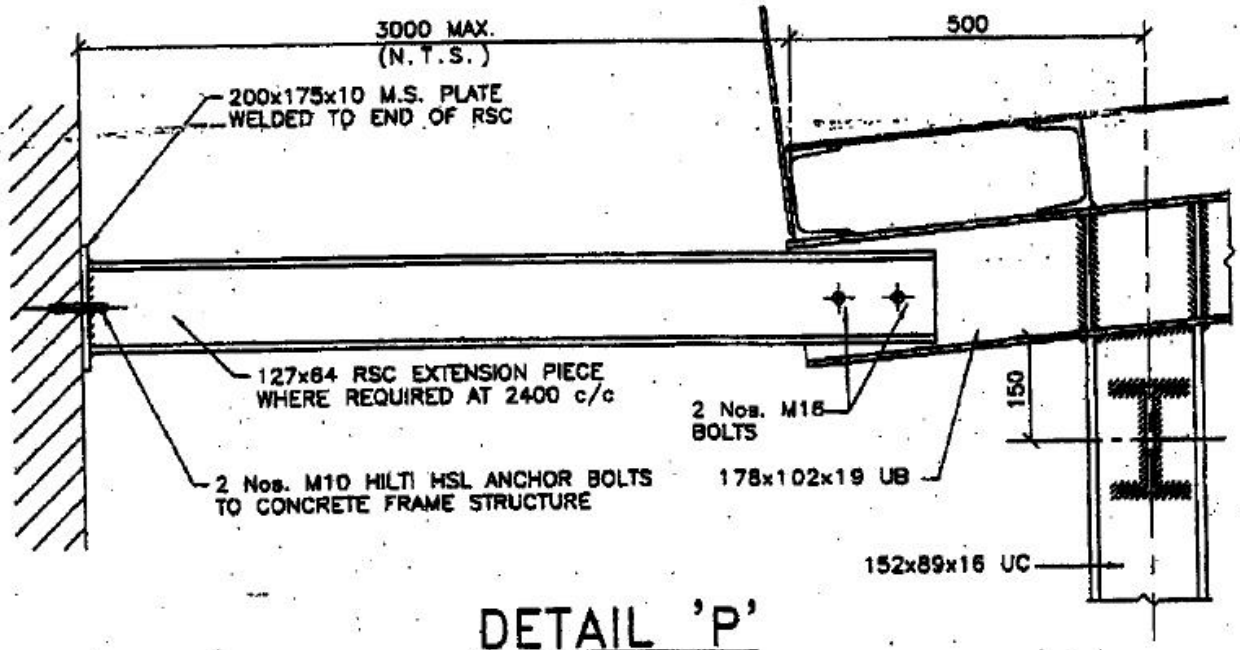


TYPICAL SPLICING DETAILS OF PURLIN

title 1.1m WIDE HOARDING AND COVERED WALKWAY FOR BUILDING HEIGHT EXCEED 30m (TYPE 6)	checked CSE/3 <i>MM</i>	date 7/6/01	drawing no. HOARDING/6/SK9	scale 1 : 10
	approved AD(SE) <i>JM</i>	date 11.6.01	 ARCHITECTURAL SERVICES DEPARTMENT	
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DETAIL 'N'
DETAIL 'C1' SIMILAR



DETAIL 'P'

NOTE : WHEN THE LENGTH OF TIE/PROP EXCEEDS 3.0 m. THE COMPRESSION FORCE OF THE PROP SHALL BE TAKEN AS 7.5 KN.

Title
1.1m WIDE
HOARDING AND
COVERED WALKWAY FOR
BUILDING HEIGHT EXCEED 30m
(TYPE 6)

checked
CSE/3 *[Signature]*
approved
AD(SE) *[Signature]*
office
STRUCT. ENG. BRANCH

date
7/6/01
date
11.6.01

drawing no.
HOARDING/6/SK10

scale
1 : 10



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Section 11

PLASTERWORK AND OTHER FLOOR,

WALL AND CEILING FINISHES

PLASTERWORK AND OTHER FLOOR, WALL AND CEILING FINISHES

SPECIAL CONDITIONS

Measurement generally	I. All works shall be measured the net area covered. Unless otherwise stated, no deduction shall be made for voids not exceeding 0.50 m ² , nor for unbracketed cornice, mouldings and the like of any width. Thickness shall be measured from the general face of the surface being covered and exclusive of any grooves, raked out joints or other irregularities.
Measurement of tiling	II. Notwithstanding definitions of ceramic floor and wall tiles in BS EN ISO 10545 : - (a) Measurement of ceramic tiles shall include porcelain, stoneware or similar tiles. (b) Measurement of quarry tiles shall include ceramic homogeneous, porcelain homogeneous, stoneware homogeneous or similar tiles. (c) Measurement of unglazed tiles shall include engobed, matt, non-slip or similar. (d) Measurement of glazed tiles shall include polished, gloss or similar.
Measurement of mouldings	III. Mouldings and moulded cornices shall be measured the net length on wall or beam face by the net visible girth.
Measurement of skirting	IV. Skirting shall be measured the net height above finished floor or paving level. The thickness of skirting shall be measured at the centre point of the height.
Measurement of hack out and replace tile in isolated patches	V. Each isolated patch is defined as the isolated surface required for tile replacement up to a maximum of 10 number of tiles and area not exceeding 0.50 m ² .
Measurement of suspended ceiling systems	VI. Suspended ceiling systems shall be measured over the net area covered including air grilles, light fittings, access panels and the like. No deduction shall be made for openings not exceeding 0.50 m ² . Sheet metal or wooden bulkheads shall be measured separately and paid for at the appropriate rates under applicable Work Sections in this Schedule.
Measurement of proprietary suspension systems	VII. Proprietary suspension systems shall be measured over the net area covered including air grilles, light fittings, access panels and the like. No deduction shall be made for openings not exceeding 0.50 m ² .
Measurement of raised accessed flooring	VIII. Raised accessed flooring shall be measured over the net area covered including air grilles, access openings and the like. No deduction shall be made for openings not exceeding 0.50 m ² .

SPECIAL CONDITIONS (CONT'D)

- | | | |
|-----|---|---|
| IX. | The rates shall generally include for any or all of the following as applicable : - | Rates generally |
| | <ul style="list-style-type: none"> (a) Narrow widths and small quantities. (b) Preparation of surfaces to receive the finishing and any necessary dubbing out of irregularities on the surface being covered. (c) Working into channels and recessed covers and working around pipes, metal sections and the like. (d) Laying or executing work in bays or between strips, circular or pattern. (e) Laying level or to slopes and finishing to falls or currents. (f) All temporary formwork or rules. (g) All cutting and wastes, holes, notches, cutting and fitting and making good. (h) Executing internally or externally, working in any position, at any height and on new or existing surfaces including any scaffolding and all temporary works. (i) All quoin points and other intersections of curved surfaces. (j) All making good up to existing finishes, door and window frames, around pipes, brackets and the like, and dishing to outlets. (k) All internal and external angles, fair ends, stopped ends and similar labours. (l) All joints between different types of materials and joints between new and existing surfaces including wire netting as G.S. Item 18.14. (m) Any dressing around pipes passing through roofs as G.S. Item 18.68. (n) Covering up and protecting where necessary. (o) Construction and subsequent demolition of trial panels of finishings. (p) Provision of samples and tests including submission of records and reports. | |
| X. | The rates for metal lathing and wire netting shall further include for : - | Rates for metal lathing and wire netting |
| | <ul style="list-style-type: none"> (a) Preparing and applying one coat of bituminous paint to cut ends. (b) Fixing to supports with staples or tying wire. (c) Allowing for bending and laps. (d) All circular cutting and waste. | |
| XI. | The rates for screeds, rendering, plastering, granolithic and terrazzo works and any other in-situ finishes shall further include for : - | Rates for screeds and in-situ finishes |
| | <ul style="list-style-type: none"> (a) Spatterdashing, hacking, raking out joints, washing over with cement grout, brushing down, cleaning and all other preparation works required to new or existing surfaces to provide key or bonding. (b) All internal angles, arrises, quirks, throats, drips, rounded angles and coves and similar labours, and forming "V" or square edged grooves in surface when required. (c) Scratching undercoats, and steel trowel, wood float, trowelled stucco, brushed, or combed finish as ordered. (d) All metal beads as G.S. Items 18.25 and 18.53. | |

SPECIAL CONDITIONS (CONT'D)

- Rates for acoustic plaster or fire resisting plaster**
- XII. The rates for acoustic plaster or fire resisting plaster shall further include for : -
- (a) Application by special spray equipment.
 - (b) Coloured top coat.
 - (c) Supply and spraying in accordance with the manufacturer's recommendations.
 - (d) Submission of manufacturer's guarantee.
- Rates for tiling, slabs or paving blocks**
- XIII. The rates for tiling, slabs or paving blocks shall further include for : -
- (a) In the case of no special tiles or fittings, mitring edges to external corners and the like.
 - (b) All slurry, grout, mortar, tile adhesives and the like of approved type.
 - (c) Pointing joints with natural or coloured cement slurry or cement and sand mortar to match colours of tiles.
 - (d) Pointing and grouting joints in waterproofing slurry or proprietary grouting mortar of approved type as ordered.
 - (e) Cutting and laying or fixing to patterns including graphics.
 - (f) Unless otherwise stated, tiles of any configuration or dimension.
 - (g) Unless otherwise stated, any type of finish, likewise, matt, non-slip or polished finishes.
 - (h) Unless otherwise stated, tiles are of origin from China or Asian countries other than Japan.
- Rates for "Extra over" for rounded edge tiles, skirting tiles and the like**
- XIV. The rates for "Extra over" for rounded edge tiles, skirting tiles and the like shall further include for : -
- (a) All internal and external corner tiles, corner end tiles and the like.
- Rates for taking down existing finishes**
- XV. The rates for taking down existing plaster, paving, tiling, etc., shall include for : -
- (a) Cutting back edges of the retaining work.
 - (b) Cutting and clearing away steel lathing of wire netting as required.
 - (c) Making good adjoining surfaces disturbed in the taking down process.
 - (d) Preparing joints for new work.
 - (e) Preparing surfaces to receive new finish.

SPECIAL CONDITIONS (CONT'D)

XVI.	The rates for terrazzo shall further include for : -	Rates for terrazzo
(a)	Preparing and applying one coat of wax polish to wall finishes.	
(b)	In the case of floor finishes, not to be highly polished or wax polished.	
XVII.	The rates for terrazzo tiles shall further include for : -	Rates for terrazzo tiles
(a)	Forming rounded, squared or splayed edges as required.	
(b)	Pointing in natural or coloured cement slurry.	
(c)	Preparing and applying one coat of wax polish to wall tiles or two coats non-slip, matt emulsion polish on floor tiles.	
XVIII.	The rates for stone or marble slabs shall further include for : -	Rates for stone or marble slabs
(a)	Forming rounded, squared or splayed edges as required.	
(b)	Pointing in natural or coloured cement slurry.	
(c)	Preparing and applying one coat of wax polish to wall slabs or two coats non-slip, matt emulsion polish on floor slabs.	
(d)	Providing and fixing copper cramps and "S" hooks as G.S. Item 18.111 or stainless steel fixing as ordered.	
(e)	Laying level or to slopes and finishing to falls, or falls and currents.	
(f)	Preparing surfaces ready to receive cement and sand bedding or sand bedding to receive stone paving or slabs.	
(g)	All joints between different types of materials and joints between new and existing materials.	
(h)	Flushing up around pipes, floor drains, outlets and the like.	
(i)	Covering up and protecting.	
XIX.	The rates for proprietary screeds shall further include for : -	Rates for proprietary screeds
(a)	Supplying and laying in accordance with the manufacturer's instructions.	
(b)	Cleaning existing surfaces by high pressure water jets.	
(c)	Repairing cracks and applying floor primer or bonding agent.	
(d)	Submission of manufacturer's guarantee.	

SPECIAL CONDITIONS (CONT'D)

Rates for flexible tiles and sheet finishes, or rubber tiles and sheet finishes

- XX. The rates for flexible tiles and sheet finishes, or rubber tiles and sheet finishes shall further include for : -
- (a) Providing and laying tiles or sheets in accordance with the manufacturer's instructions.
 - (b) Laying tiles or sheets in plain or pattern including graphics.
 - (c) Preheating process with preheating tools as required.
 - (d) Any welding joints between sheets including P.V.C. welding rods as required.
 - (e) Treating surfaces of tiles or sheets as G.S. Item 18.125.

Rates for suspended ceiling systems

- XXI. The rates for suspended ceiling systems shall include for : -
- (a) Installation complete with necessary linings and including the whole suspension systems (i.e. suspension framing, edge trims, runners, hangers and the like and fixing to concrete soffits and the like).
 - (b) Edge trims at junction with bulkheads.
 - (c) All cutting and narrow widths.
 - (d) Unless otherwise stated, any drop length from soffits.
 - (e) Forming openings and trimming around pipes, conduits, power points and the like and including extra supports and trimmers for same.
 - (f) Trimming around sprinkler and detector heads, air grilles, light fittings, access panels and the like and including extra supports and trimmers for same.
 - (g) Additional framing and supports etc. to bridge across ducts and the like.
 - (h) Submission of catalogues, technical literature, data and the like documentation covering the systems.
 - (i) Submission of test certificates and manufacturer's guarantee.

Rates for "Extra over" for forming openings

- XXII. The rates for "Extra over" for forming openings shall further include for : -
- (a) Additional trimmer/suspension, stiffening plates, brackets, etc.
 - (b) Sealing edges.

Rates for raised accessed flooring

- XXIII. The rates for raised accessed flooring shall further include for : -
- (a) Supply and installation in accordance with the manufacturer's instructions.
 - (b) Additional supports and framing for cut panels.
 - (c) All air grilles, skirting trims, integral fittings and the like.
 - (d) Forming openings for power points, trunking and other building services installations including sealing edges.
 - (e) Providing and laying insulation under floor as required.
 - (f) All preparation works, cleaning and protection of completed works.
 - (g) Submission of test certificate, manual and manufacturer's guarantee.

SPECIAL CONDITIONS (CONT'D)

XXIV. The rates for division strips, cover angles, strips at expansion joints etc. to finishes and pavings shall include for cutting to required lengths, splay cut ends, drilling, fixing with brass or stainless steel screws or the like and for countersinking the heads of all exposed screws.

**Rates for
division strips**

XXV. G.S. clauses for suspended ceiling systems can be found in the Carpentry and Joinery Section of the General Specification for Building.

**G.S. clauses
for suspended
ceiling systems**

Item	METAL LATHING AND NETTING		Item									
		Supply and fix										
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Plain expanded type 1.6kg/m²</td> <td style="width: 33%;">Ribbed expanded type 2.25kg/m²</td> <td style="width: 33%;">Wire netting 0.9 mm dia. x 50 mm mesh</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> </tr> </table>	Plain expanded type 1.6kg/m ²	Ribbed expanded type 2.25kg/m ²	Wire netting 0.9 mm dia. x 50 mm mesh	A	B	C	\$	\$	\$	
Plain expanded type 1.6kg/m ²	Ribbed expanded type 2.25kg/m ²	Wire netting 0.9 mm dia. x 50 mm mesh										
A	B	C										
\$	\$	\$										
11001	Vertical or horizontal surfaces.....	37.20 45.30 17.40	11001									
11002	Soffits or sloping soffits including beams and the like.....	38.10 46.20 18.30	11002									
	LIGHTWEIGHT FLOOR AND ROOF SCREEDS	Thickness (mm)										
		40 50 65 75										
		A B C D										
		\$ \$ \$ \$										
11003	Cement and vermiculite (1:8 by volume) roofing screed.....	113.00 134.80 169.30 192.30	11003									
11004	Cement and vermiculite (1:6 by volume) floor screed	112.60 134.30 168.70 191.60	11004									
11005	Air entrained screed having a dry density of not more than 1,200 kg/m ³	136.20 153.80 188.70 220.80	11005									
	CEMENT PAVING, FLOOR SCREEDS, ETC.	Cement and sand (1:3) or cement and granite fines (1:3)										
		Thickness (mm)										
		15 20 25 30 40										
		A B C D E										
		\$ \$ \$ \$ \$										
11006	Paving or floor screeds.....	34.50 38.70 42.40 46.90 55.60	11006									
11007	Paving or screed to treads and risers, strings, sides and top of upstand kerbs, sides and bottom of channels and sinkings and the like	40.10 44.70 48.50 53.70 63.40	11007									
11008	Extra over Items 11006 to 11007 inclusive for approved admixture of hardener and/or dust proofer.....	11.40 14.80 18.20 21.60 28.60	11008									
11009	Extra over Items 11006 to 11007 inclusive for approved admixture of waterproofing.....	5.00 6.30 7.60 8.90 11.70	11009									
11010	Extra over Items 11006 to 11007 inclusive for approved colour cement or pigments.....	5.70 7.40 8.60 10.30 13.30	11010									

Item	CEMENT PAVING, FLOORS SCREEDS, ETC. (CONT'D)			Item					
		Cement, sand or granite fines and coarse aggregate Grade 10 (1:1.5:3)							
		Thickness (mm)							
		50	60						
		A	B						
		\$	\$						
11011	Paving or floor screeds.....	61.30	70.50	11011					
11012	Paving or screed to treads and risers, strings, sides and top of upstand kerbs, sides and bottom of channels and sinkings and the like.....	69.80	80.50	11012					
11013	Extra over Items 11011 to 11012 inclusive for approved admixture of hardener and/or dust proofer.....	35.60	46.20	11013					
11014	Extra over Items 11011 to 11012 inclusive for approved admixture of waterproofing.....	14.40	18.70	11014					
11015	Extra over Items 11011 to 11012 inclusive for approved coloured cement or pigments.....	12.60	15.20	11015					
		Cement and sand (1:4) or cement and granite fines (1:4)							
		Thickness (mm)							
		15	20	25	30	40	50	65	
		A	B	C	D	E	F	G	
		\$	\$	\$	\$	\$	\$	\$	
11016	Floor screeds.....	33.20	36.70	41.10	44.80	52.40	60.30	71.30	11016
11017	Screed to treads and risers, strings, sides and top of upstand kerbs, sides and bottom of channels and sinkings and the like.....	36.00	39.80	44.40	48.30	56.90	66.20	77.90	11017
		ROOF SCREEDS							
		<i>Per square metre</i>							
11018	Screed on roofs.....	36.00	39.70	44.40	48.30	56.90	66.20	78.00	11018
11019	Screed to treads and risers, strings, sides and top of upstand kerbs, sides and bottom of channels and sinkings and the like.....	39.10	43.10	47.90	52.10	61.20	71.00	83.40	11019
		LEVELLING SKIM COAT							
		<i>Per square metre</i>							
11020	Prepare existing surface and apply resin based gypsum and cement skim coat of any thickness to level up floor before receiving rubber and vinyl floor tiles, sheets or carpet (measured separately)							A \$ 20.30	11020

Item	PROPRIETARY PAVING SYSTEM	Average thickness (mm)			Item
		10	12	15	
		A \$	B \$	C \$	
	<i>Per square metre</i>				
11021	Light duty self-levelling floor screed.....	156.50	164.00	175.10	11021
11022	Medium duty self-levelling floor screed.....	171.40	179.50	193.80	11022
11023	Heavy duty self-levelling floor screed.....	198.20	214.60	238.50	11023
11024	Super duty self-levelling floor screed.....	219.90	237.70	263.80	11024
11025	Light duty floor screed (with laying to fall property).....	161.00	168.20	178.90	11025
11026	Medium duty floor screed (ditto).....	176.60	185.70	199.70	11026
11027	Heavy duty floor screed (ditto).....	205.00	221.40	245.90	11027
11028	Super duty floor screed (ditto).....	226.60	242.20	265.70	11028
	<i>Per square metre</i>			A \$	
11029	Heavy duty mechanical scrubbling to existing surface			21.70	11029
	<i>Per linear metre</i>				
11030	Point movement joint with rubber granular based material and binder			14.00	11030
	PROPRIETARY SCREEDS				
	<i>Per square metre</i>				
11031	"3M Colorquartz Antislip KRT" epoxy seamless floor system to floor in accordance with the manufacturer's instructions.....			555.10	11031
11032	"Cementaid Diamite-Rokite" floor coating system, clear colour to floor in accordance with the manufacturer's instructions.....			72.50	11032
11033	Ditto coloured floor coating.....			149.10	11033
11034	"Dynagrip" proprietary screeds; non-slip powder to freshly laid concrete surface			292.70	11034
	(Note : - The above Items 11031 to 11034 inclusive will only be paid for, if ordered by Maintenance Surveyor in writing.)				
	Prepare and apply "Ronafix Mix A" waterproofing bonding additive mixed with cement and sand (1:2) rough rendering including bond coat/primer, all in strict accordance with manufacturer's instructions, and wood floated or steel trowelled as required : -				
	<i>Per square metre</i>				
11035	20 mm Thick on floors			94.80	11035
11036	Add to Item 11035 for each additional 5 mm or part thereof in thickness			14.90	11036

Item	PROPRIETARY SCREEDS (CONT'D)		Item							
	Prepare and apply "Ronafix Mix A" waterproofing bonding additive mixed with cement and sand (1:2) rough rendering including bond coat/primer, all in strict accordance with manufacturer's instructions, and wood floated or steel trowelled as required : - (cont'd)	A \$								
	<i>Per square metre</i>									
11037	10 mm Thick on walls, columns, vertical surfaces or top of benchings	68.30	11037							
11038	Add to Item 11037 for each additional 5 mm or part thereof in thickness	12.10	11038							
11039	10 mm Thick on soffits or sloping soffits including beams and the like	76.60	11039							
11040	Add to Item 11039 for each additional 5 mm or part thereof in thickness	12.10	11040							
	Prepare and apply "Monoset RXG" fast-setting heavy duty floor screed including bond coat/primer, all in strict accordance with manufacturer's instructions : -									
	<i>Per square metre</i>									
11041	20 mm Thick on floors	500.40	11041							
11042	Add to Item 11041 for each additional 5 mm or part thereof in thickness	110.80	11042							
	(Note : - The above Items 11035 to 11042 inclusive will only be paid for, if ordered by Maintenance Surveyor in writing.)									
	CEMENT AND SAND (1:3) SKIRTING									
		20 mm Thick				25 mm Thick				
		Height (mm)				Height (mm)				
		N.e. 75	75 - 150	150 - 225	225 - 300	N.e. 75	75 - 150	150 - 225	225 - 300	
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	
11043	Skirting with square, splayed, rounded or rebated top edge, and square, splayed or coved bottom	6.40	13.10	19.80	25.90	6.90	14.00	21.30	28.80	11043
11044	Ditto but to open string or stepped wall string at side of stairs.....	7.50	15.30	23.10	30.90	8.10	16.50	24.90	33.30	11044
11045	Extra over Items 11043 to 11044 inclusive for approved coloured cement or pigments.....	0.60	1.40	2.20	2.90	0.60	1.50	2.40	3.30	11045
	CEMENT RENDERING OR BACKING SCREEDS									
						Cement and sand (1:3) or cement and granite fines (1:3)				
						Thickness (mm)				
	<i>Per square metre</i>					10	15	20	25	
		A \$	B \$	C \$	D \$					
11046	On walls, columns, vertical surfaces, top of benchings or under cupboards.....	33.00	37.30	41.70	45.60					11046
11047	On soffits or sloping soffits including beams and the like.....	36.00	40.40	44.80	48.90					11047
11048	Extra over Items 11046 to 11047 inclusive for approved admixture of waterproofing.....	3.90	5.10	6.40	7.80					11048
11049	Extra over Items 11046 to 11047 inclusive for approved coloured cement or pigments.....	4.10	5.80	7.50	8.70					11049

Item	CEMENT RENDERING OR BACKING SCREEDS (CONT'D)					Item
		Cement and sand (1:4) or cement and granite fines (1:4)				
		Thickness (mm)				
		10	15	20	25	
		A	B	C	D	
		\$	\$	\$	\$	
11050	On surfaces between grounds to receive fitments (no deduction for grounds).....	32.40	36.00	39.70	44.30	11050
	INTERNAL LIME PLASTER					
		5 mm first coat	10 mm first coat	5 mm finish- ing coat	Two coats	
		A	B	C	D	
		\$	\$	\$	\$	
11051	On walls, columns or vertical surfaces	-	29.40	26.80	56.20	11051
11052	On soffits or sloping soffits including beams and the like	29.20	-	34.20	63.30	11052
	GYPSUM PLASTER					
	Mix of first coat : Browning plaster and sand (1:2) or cement and sand (1:3). Finishing coat as G.S. Item 18.49 (ii) with smooth finish 5 mm maximum.					
		Thickness (mm)				
		5	10	13		
		A	B	C		
		\$	\$	\$		
11053	On walls, columns or vertical surfaces	-	47.70	-		11053
11054	On soffits or sloping soffits including beams and the like surfaces.....	-	54.50	-		11054
11055	On walls, columns or vertical surfaces of expanded metal lathing (measured separately).....	-	-	50.40		11055
11056	On soffits or sloping soffits including beams and the like, surfaces of expanded metal lathing (measured separately).....	-	-	57.80		11056
11057	On walls, columns or vertical plasterboard surfaces	39.60	-	-		11057
11058	On soffits or sloping soffits including beams and the like, plasterboard surfaces.....	46.90	-	-		11058
	MOULDING AND MOULDED CORNICES					
	Lime putty and paper pulp or Plaster of Paris (1:1) moulding and moulded cornices on and including rough plaster backing, all necessary bracketing, lathing, dubbing out, moulds, mitres, stops and the like, and finishing true to details : -					
		Girth (mm)				
		N.e. 75	75 - 150	150 - 225	225 - 300	
		A	B	C	D	
		\$	\$	\$	\$	
11059	Moulding or moulded cornice	26.60	34.80	46.20	59.50	11059
11060	Ditto but circular on plan to radius n.e. 7.50 m	39.20	50.10	67.70	84.90	11060
11061	"Enriched" moulding or moulded cornice	29.00	38.70	51.20	65.90	11061
11062	Ditto but circular on plan to radius n.e. 7.50 m	42.80	54.90	74.00	95.00	11062
11063	Preformed cornices.....	67.10	75.10	83.50	92.50	11063
11064	Ditto but circular on plan to radius n.e. 7.50 m.....	75.90	85.30	95.50	106.70	11064

Item	ACOUSTIC PLASTER			Item
	Prepare and apply acoustic plaster in accordance with G.S. Items 18.35 and 18.56 and the minimum thickness and coats as recommended by the manufacturer : -		A \$	
	<i>Per square metre</i>			
11065	On walls, columns, vertical surfaces, soffits or sloping soffits including beams and the like	103.10		11065
	PROPRIETARY PLASTER			
	Prepare and apply proprietary plaster in accordance with the manufacturer's recommendation : -			
	<i>Per square metre</i>			
11066	"Vetonit Finish White" plaster, 3 mm thick, to walls, columns, vertical surfaces, soffits or sloping soffits including beams and the like.....	124.10		11066
	Prepare and spray proprietary cementitious fireproofing plaster on the following structural steel surfaces in accordance with manufacturer's recommendation : -			
	<i>Per square metre</i>			
			Fire rated period	
			1 hour 2 hours 4 hours	
			A B C	
			\$ \$ \$	
11067	Interior concealed structural steel surfaces with spray-texture finish.....	173.90	248.40 416.10	11067
11068	Interior exposed structural steel surfaces with spray-texture or trowelled smooth finish.....	298.10	372.60 540.30	11068
11069	Exterior exposed structural steel surfaces with spray-texture or trowelled smooth finish.....	496.80	621.10 819.80	11069
	EXTERNAL RENDERING			
			First coat Finish- ing coat Two coats render- ing	
		Thickness (mm)	10 10 20	
	<i>Per square metre</i>		A B C	
			\$ \$ \$	
11070	On walls, columns or vertical surfaces	29.50	36.70 66.10	11070
11071	On soffits or sloping soffits including beams and the like	35.70	39.80 75.60	11071
	EXPOSED AGGREGATE RENDERING (SHANGHAI PLASTER)			
	Exposed aggregate rendering applied in two coats as G.S. Item 18.55 : -			
	<i>Per square metre</i>			
			20 mm Thick	
			Colour	
			Dark Medium White	
			A B C	
			\$ \$ \$	
11072	On walls, columns or vertical surfaces	80.90	82.40 92.80	11072
11073	On soffits or sloping soffits including beams and the like.....	87.20	88.70 99.20	11073

Item	SPECIAL IN-SITU COLOURED FINISH					Item
	"Sandtex-trowel" finish applied in one coat on fair faced concrete, backing screed or plaster (measured separately), in accordance with the manufacturer's recommendation : -			Mottled colour	Mono colour	
	<i>Per square metre</i>			A \$	B \$	
11074	On walls, columns or vertical surfaces			40.70	40.70	11074
11075	On soffits, sloping soffits, beams, cills, canopies and the like			44.40	44.40	11075
GRANOLITHIC FINISH						
Granolithic paving, etc., of the mix and finish required : -		Mix A (Trowelled)		Mix B (Trowelled)		
		Thickness (mm)		Thickness (mm)		
		15	20	15	20	
<i>Per square metre</i>		A \$	B \$	C \$	D \$	
11076	On floors.....	51.00	59.80	57.20	68.00	11076
11077	To treads and risers, ends of stairs, sides and top of upstand kerbs, sides and bottom of channels and sinkings, tops, sides, soffits and edges of shelves, working slabs and the like.....	57.00	66.00	63.30	74.00	11077
11078	On walls, columns or vertical surfaces.....	-	62.70	-	70.90	11078
11079	Add to either of Items 11076 to 11078 inclusive for rubbed finish	40.00	40.00	40.00	40.00	11079
11080	Extra over either of Items 11076 to 11078 inclusive for paving hardened with approved liquid hardener and/or dust proofer.....	11.30	14.70	11.30	14.70	11080
11081	Extra over either of Items 11076 to 11078 inclusive for approved coloured cement or pigments.....	6.10	7.90	6.10	7.90	11081
Granolithic paving, etc., of the mix and finish required : -		Mix C (Washed)		Mix D (Washed)		
		Thickness (mm)		Thickness (mm)		
		15	20	15	20	
<i>Per square metre</i>		A \$	B \$	C \$	D \$	
11082	On floors.....	67.00	77.30	74.30	86.90	11082
11083	To treads and risers, ends of stairs, sides and top of upstand kerbs, sides and bottom of channels and sinkings, tops, sides, soffits and edges of shelves, working slabs and the like	75.50	86.40	82.80	96.10	11083
11084	On walls, columns or vertical surfaces.....	-	81.80	-	91.60	11084
11085	Extra over either of Items 11082 to 11084 inclusive for paving hardened with approved liquid hardener and/or dust proofer.....	11.30	14.70	11.30	14.70	11085
11086	Extra over either of Items 11082 to 11084 inclusive for approved coloured cement or pigments.....	7.20	8.90	7.20	8.90	11086

Item	GRANOLITHIC FINISH (CONT'D)								Item
	Granolithic paving, etc., of the mix and finish required :-								
	20 mm Thick				25 mm Thick				
	Height (mm)				Height (mm)				
	N.e. 75	75 - 150	150 - 225	225 - 300	N.e. 75	75 - 150	150 - 225	225 - 300	
	A	B	C	D	E	F	G	H	
	\$	\$	\$	\$	\$	\$	\$	\$	
	<i>Per linear metre</i>								
11087	Granolithic Mix A skirting with splayed, rounded or rebated top edge, and square, splayed or coved bottom trowelled finish.....								11087
11088	Granolithic Mix B ditto								11088
11089	Add to either of Items 11087 to 11088 inclusive for rubbed finish								11089
11090	Granolithic Mix C skirting with splayed, rounded or rebated top edge, and square, splayed or coved bottom washed finish.....								11090
11091	Granolithic Mix D ditto.....								11091
11092	Add to either of Items 11087 to 11088 inclusive and Items 11090 to 11091 inclusive for labour forming open string or stepped wall string at side of stairs								11092
11093	Add to either of Items 11087 to 11088 inclusive and Items 11090 to 11091 inclusive for full thickness in coloured cement or pigments								11093
	Mix A and B				Mix C and D				
	Height (mm)				Height (mm)				
	N.e. 75	75 - 150	150 - 225	225 - 300	N.e. 75	75 - 150	150 - 225	225 - 300	
	A	B	C	D	E	F	G	H	
	\$	\$	\$	\$	\$	\$	\$	\$	
	<i>Per linear metre</i>								
11094	Add to skirting of any thickness if executed in two coats with finishing coat 10 mm thick mixed with coloured cement or pigments.....								11094
	TERRAZZO WORK								
		Type A (white or coloured cement)	Type B (white or coloured cement)	Type C (white or coloured cement)					
		A	B	C					
		\$	\$	\$					
11095	25 mm Thick on floors				110.70	110.60	110.40	11095	
11096	25 mm Thick on treads of stairs				116.90	116.90	116.60	11096	
11097	15 mm Thick to risers and ends of stair, sides and top of upstand kerbs, sides and bottom of channels and sinkings, and the like				116.40	116.20	116.00	11097	
11098	20 mm Thick on walls, columns or vertical surfaces including 1 coat of wax polish on finished surface.....				134.80	134.40	134.30	11098	
11099	15 mm Thick to tops, sides, soffits and edges of shelves, working slabs, sinks, cills and the like				120.50	120.20	120.10	11099	

Item	TERRAZZO WORK (CONT'D)						Item			
				Type A (white or coloured cement)	Type B (white or coloured cement)	Type C (white or coloured cement)				
				A	B	C				
				\$	\$	\$				
11100	20 mm Thick skirting n.e. 75 mm high with splayed, rounded or rebated top edge, and square, splayed or coved bottom including 1 coat of wax polish on finished surface.....			12.00	12.00	12.00	11100			
11101	Ditto but 75 - 150 mm high			26.00	25.90	25.90	11101			
11102	Ditto but 150 - 225 mm high			45.50	45.50	45.40	11102			
11103	Ditto but 225 - 300 mm high.....			62.50	62.50	62.40	11103			
	Add to either of Items 11100 to 11103 inclusive for labour forming open string or stepped wall string at side of stairs			20%	20%	20%				
	CERAMIC AND QUARRY FLOOR TILES, SKIRTINGS, ETC.									
	Ceramic floor tiles, quarry floor tiles, skirtings etc. to BS EN ISO 10545 in any colour and size :-									
	Per square metre		Ceramic tiles to BS EN ISO 10545		Quarry tiles to BS EN ISO 10545					
			glazed		unglazed					
			Thickness (mm)		Thickness (mm)					
			N.e. 9.5		N.e. 9.5					
			exceed- ing 9.5		exceed- ing 9.5					
			A		E					
			B		F					
			\$		\$					
11104	Tiling on floor.....			183.60	203.80	165.80	177.00	183.60	194.90	11104
11105	Ditto but to treads and risers of stairs, sides and top of upstand kerbs, sides and bottom of channels and the like			199.60	221.20	181.00	193.10	199.60	211.80	11105
11106	Extra over Items 11104 to 11105 inclusive for anti-slip finish.....			8.50	8.50	8.50	8.50	17.00	17.00	11106
	Per linear metre									
11107	Extra over Item 11105 for stair tread tile.....			7.80	9.00	6.60	7.20	7.10	8.40	11107
11108	Skirting 100 mm high with rounded top edges and coved bottom.....			50.70	56.00	45.60	50.90	52.40	58.60	11108
11109	Ditto but 150 mm high.....			63.70	70.70	56.90	64.00	65.40	73.10	11109
11110	Ditto but 200 mm high.....			81.80	88.90	73.30	80.50	84.90	95.20	11110
	Add to either of Items 11108 to 11110 inclusive for labour forming open string or stepped wall string at side of stairs.....			20%	20%	20%	20%	20%	20%	
	Per square metre									
11111	Lay only tiling on floors.....			67.80	70.20	67.80	70.20	67.80	70.20	11111
11112	Lay only tiling to treads and risers of stairs, sides and top of upstand kerbs, sides and bottom of channels and the like.....			78.30	81.20	78.30	81.20	78.30	81.20	11112
11113	Rake out joints between tiles and point in natural or coloured cement and sand mortar on existing tiled surface.....			35.80	36.50	35.80	36.50	35.80	36.50	11113
11114	Hack out and replace tiling on floor in isolated patches and point to match existing.....			199.30	219.80	181.50	193.00	199.30	210.80	11114
	Add to either of Items 11104 to 11105 inclusive, Items 11108 to 11110 inclusive and Item 11114 for floor tiles of Italy/Spain origin.....						30%			
	Add to either of Items 11104 to 11105 inclusive, Items 11108 to 11110 inclusive and Item 11114 for floor tiles of U.K./Germany origin.....						35%			
	Add to either of Items 11104 to 11105 inclusive, Items 11108 to 11110 inclusive and Item 11114 for floor tiles of Japan origin.....						25%			

Item	CONCRETE FLOOR TILING				Item	
	Concrete floor tiles to BS 1197 in any colour and size : -					
		30 mm thick (maximum)				
	Finish	Concrete		Granolithic		
	Tile Size	N.e. 0.05 m ²	Exceeding 0.05 m ²	N.e. 0.05 m ²	Exceeding 0.05 m ²	
		A	B	C	D	
		\$	\$	\$	\$	
11115	Tiling on floor.....	122.20	88.00	195.90	166.40	11115
11116	Tiling to treads and risers of stairs, sides and top of upstand kerbs, sides and bottom of channels and the like	129.90	92.80	203.60	171.20	11116
	<i>Per square metre</i>					
11117	Extra over for tile with rounded edge.....	9.50	13.50	7.80	9.50	11117
11118	Skirting 100 mm high with rounded top edges and coved bottom.....	33.80	36.20	45.50	48.00	11118
11119	Ditto but 150 mm high.....	49.00	52.50	66.00	69.40	11119
11120	Ditto but 200 mm high.....	62.90	66.40	83.80	89.90	11120
	Add to either of Items 11118 to 11120 inclusive for labour forming open string or stepped wall string at side of stairs.....	20%	20%	20%	20%	
	<i>Per square metre</i>					
11121	Lay only tiling on floors.....	52.40	37.20	52.40	37.20	11121
11122	Lay only tiling to treads and risers of stairs, sides and top of upstand kerbs, sides and bottom of channels and the like	60.10	42.10	60.10	42.10	11122
	TERRAZZO FLOOR TILES					
	Terrazzo floor tiles to BS EN 13748 in any size, colour and surface finish : -					
		Thickness (mm)				
		20		30		
		A	B			
		\$	\$			
11123	Tiling on floor.....			163.00	183.60	11123
11124	Tiling to treads and risers of stairs, sides and top of upstand kerbs, sides and bottom of channels and the like			170.70	192.70	11124
	<i>Per linear metre</i>					
11125	Extra over Item 11124 for stair tread tile.....			23.50	24.80	11125
11126	Skirting 100 mm high with rounded top edges and coved bottom.....			42.90	47.80	11126
11127	Ditto but 150 mm high.....			55.00	61.30	11127
11128	Ditto but 200 mm high.....			69.50	75.80	11128
	Add to either of Items 11126 to 11128 inclusive for labour forming open string or stepped wall string at side of stairs.....			20%	20%	

Item	TERRAZZO FLOOR TILES (CONT'D)	Thickness (mm)		Item	
	Terrazzo floor tiles to BS EN 13748 in any size, colour and surface finish : -	20	30		
	<i>Per square metre</i>	A	B		
		\$	\$		
11129	Lay only tiling on floors.....	52.20	59.70	11129	
11130	Lay only tiling to treads and risers of stairs, sides and top of upstand kerbs, sides and bottom of channels and the like	59.90	68.80	11130	
11131	Hack out and replace tiling on floor in isolated patches and point to match existing.....	166.90	190.90	11131	
	CORK TILING	Thickness (mm)			
	Cork tiles of any size laid and fixed with adhesive including cleaning down and polishing with wax emulsion : -	6	9	12	
	<i>Per square metre</i>	A	B	C	
		\$	\$	\$	
11132	On floors.....	112.30	150.10	182.80	11132
11133	To walls, columns and vertical surfaces.....	114.00	151.80	184.40	11133
11134	To ceilings	115.60	153.50	186.10	11134
11135	Lay only cork tiles on floors.....	39.30	39.30	39.30	11135
11136	Ditto to walls, columns and vertical surfaces.....	41.00	41.00	41.00	11136
11137	Ditto to ceilings.....	42.60	42.60	42.60	11137
	FLEXIBLE TILES OR SHEET FINISHES	Thickness (mm)			
	Supply and lay flexible tiles as G.S. Items 18.115, 18.116 and 18.119 in any colour and patterns : -	2.5	2	3.2	
	<i>Per square metre</i>	Semi-flexible p.v.c. tiles	Unbacked flexible vinyl tiles	Lino-leum tiles	
		A	B	C	
		\$	\$	\$	
11138	Tiling on floors.....	113.60	98.50	231.80	11138
11139	Tiling to treads and risers of stairs.....	122.80	107.20	245.90	11139
11140	Lay only tiles on floors.....	43.80	43.80	43.80	11140
11141	Lay only tiles to treads and risers of stairs.....	49.70	49.70	49.70	11141

Item	FLEXIBLE TILES OR SHEET FINISHES (CONT'D)					Item
	Supply and lay flexible sheet as G.S. Items 18.117 to 18.119 in any colour and patterns : - (cont'd)					
	Overall thickness (mm)					
	1.2	2	3	3.2	4.5	
	Un-backed flexible vinyl sheet	Un-backed flexible vinyl sheet	Foam backed (1.5 mm thick) vinyl sheet	Lino-leum sheet	Lino-leum sheet	
	A	B	C	D	E	
	\$	\$	\$	\$	\$	
11142	-	200.90	232.60	363.40	459.00	11142
11143	-	217.60	250.70	387.50	491.80	11143
11144	181.40	-	-	-	-	11144
11145	-	60.60	60.60	64.60	73.70	11145
11146	-	67.70	67.70	72.20	85.20	11146
11147	89.70	-	-	-	-	11147
	Supply and lay in any colour and patterns : -					
				Vinyl tiles 2 mm thick	Vinyl sheet 2 mm thick	
				A	B	
				\$	\$	
11148	Antistatic homogeneous flooring with acid resisting property, electrical resistance : 10 ⁴ ohms to 10 ⁶ ohms.....			336.50	398.30	11148
11149	Antistatic homogeneous flooring with acid resisting property, electrical resistance : 10 ⁴ ohms to 10 ⁶ ohms including all necessary copper strip or other conductive media.....			401.70	458.80	11149
11150	Homogeneous vinyl flooring , heavy contract calendered and pressed sheet, fully flexible with PU reinforcement.....			154.00	181.70	11150
	<i>Per linear metre</i>					
					A	
					\$	
11151	Preformed flexible P.V.C. skirting 100 mm high coved bottom and rounded or bevelled at top edge.....				28.80	11151
11152	'L' shape PVC skirting of size 100 x 45 x 2 mm thick.....				52.80	11152
11153	Cove former and capping strip for vinyl roll-up skirting.....				83.20	11153
11154	PVC stair nosing 75 mm x 34 mm.....				77.30	11154
	<i>Per square metre</i>					
11155	Take up loose tiles of any description and size, clean back of tiles, prepare bed for and re-lay tiles, in plain or in patterns, with approved mastic or adhesive to match existing and wax polish to an approved finish.....				50.70	11155
11156	Ditto but sheeting on floors.....				69.30	11156
11157	Ditto but sheeting to walls.....				103.00	11157

Item	FLEXIBLE TILES OR SHEET FINISHES (CONT'D)		Item																																				
	<i>Per square metre</i>		A \$																																				
11158	Scrub, clean and apply two coats wax polish with machine buffed on floors.....	8.70	11158																																				
11159	Scrub, clean and apply sealer and two coats machine applied polish on floors.....	10.60	11159																																				
	<i>Per linear metre</i>																																						
11160	Take up loose skirting of any description and size, clean back of skirting, prepare bed for and re-fix skirting with approved mastic or adhesive to match existing and wax polish to an approved finish	6.10	11160																																				
	RUBBER TILES AND SHEET																																						
	Supply and lay as G.S. Item 18.120 in any size, colour and patterns : -	<table border="1"> <thead> <tr> <th colspan="2">Thickness (mm)</th> </tr> <tr> <th>4</th> <th>4</th> </tr> <tr> <th>tiles</th> <th>sheet</th> </tr> <tr> <th>A</th> <th>B</th> </tr> <tr> <th>\$</th> <th>\$</th> </tr> </thead> <tbody> <tr> <td>290.10</td> <td>375.40</td> </tr> <tr> <td>307.10</td> <td>399.90</td> </tr> <tr> <td>36.50</td> <td>58.40</td> </tr> <tr> <td>41.50</td> <td>67.90</td> </tr> </tbody> </table>		Thickness (mm)		4	4	tiles	sheet	A	B	\$	\$	290.10	375.40	307.10	399.90	36.50	58.40	41.50	67.90																		
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	<i>Per square metre</i>																																						
11161	Tiling/Sheeting on floors.....	290.10	375.40 11161																																				
11162	Tiling/Sheeting to treads and risers of stairs.....	307.10	399.90 11162																																				
11163	Lay only tiles/sheet on floors.....	36.50	58.40 11163																																				
11164	Lay only tiles/sheet to treads and risers of stairs.....	41.50	67.90 11164																																				
	<i>Per square metre</i>		A \$																																				
11165	Take up loose tiles of any description and size, clean back of tiles, prepare bed for and re-lay tiles, in plain or in patterns, with approved mastic or adhesive to match existing and wax polish to an approved finish.....	38.10	11165																																				
11166	Ditto but sheeting on floors.....	52.40	11166																																				
11167	Scrub, clean and apply two coats wax polish with machine buffed on floors.....	7.60	11167																																				
11168	Scrub, clean and apply sealer and two coats machine applied polish on floors.....	9.10	11168																																				
	MOSAIC FLOOR AND WALL TILING																																						
	Supply and lay as G.S. Item 18.96 but of any colour, size and surface finish : -	<table border="1"> <thead> <tr> <th>Glass mosaic tile</th> <th>Glazed ceramic mosaic tile</th> <th>Unglazed vitreous mosaic tile</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> <tbody> <tr> <td>132.40</td> <td>158.50</td> <td>153.30</td> </tr> <tr> <td>138.90</td> <td>165.00</td> <td>159.80</td> </tr> <tr> <td>149.80</td> <td>177.10</td> <td>171.60</td> </tr> <tr> <td>3.40</td> <td>3.40</td> <td>3.40</td> </tr> <tr> <td>10.30</td> <td>11.30</td> <td>11.10</td> </tr> <tr> <td>15.50</td> <td>18.50</td> <td>17.90</td> </tr> <tr> <td>20.30</td> <td>25.20</td> <td>24.20</td> </tr> <tr> <td>26.20</td> <td>33.10</td> <td>31.70</td> </tr> <tr> <td>20%</td> <td>20%</td> <td>20%</td> </tr> </tbody> </table>		Glass mosaic tile	Glazed ceramic mosaic tile	Unglazed vitreous mosaic tile	A	B	C	\$	\$	\$	132.40	158.50	153.30	138.90	165.00	159.80	149.80	177.10	171.60	3.40	3.40	3.40	10.30	11.30	11.10	15.50	18.50	17.90	20.30	25.20	24.20	26.20	33.10	31.70	20%	20%	20%
Glass mosaic tile	Glazed ceramic mosaic tile	Unglazed vitreous mosaic tile																																					
A	B	C																																					
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20%	20%	20%																																					
	<i>Per square metre</i>																																						
11169	Tiling on floors.....	132.40	158.50 153.30 11169																																				
11170	Tiling on walls or columns.....	138.90	165.00 159.80 11170																																				
11171	Tiling to treads and risers, return ends, sides and top of upstand kerbs, sides and bottom of channels and sinkings, surfaces of fitments, working benches and the like	149.80	177.10 171.60 11171																																				
	<i>Per linear metre</i>																																						
11172	Extra over for setting one row of tiles on splay at internal angle or junction of floor and wall tiling and the like.....	3.40	3.40 3.40 11172																																				
11173	Skirting n.e. 75 mm high, with square top edge and square or splay bottom edge.....	10.30	11.30 11.10 11173																																				
11174	Ditto but 75 - 150 mm high.....	15.50	18.50 17.90 11174																																				
11175	Ditto but 150 - 225 mm high.....	20.30	25.20 24.20 11175																																				
11176	Ditto but 225 - 300 mm high.....	26.20	33.10 31.70 11176																																				
	Add to either of Items 11173 to 11176 inclusive for labour forming open string or stepped wall string at side of stairs.....	20%	20% 20%																																				

Item	MOSAIC FLOOR AND WALL TILING (CONT'D)			Item	
	Supply and lay as G.S. Item 18.96 but of any colour, size and surface finish : - (cont'd)				
		Glass mosaic tile	Glazed ceramic mosaic tile	Unglazed vitreous mosaic tile	
		A	B	C	
		\$	\$	\$	
	<i>Per square metre</i>				
11177	Lay only tiling on floors.....	48.20	48.20	48.20	11177
11178	Lay only tiling on walls or columns.....	52.10	52.10	52.10	11178
11179	Lay only tiling to treads and risers, end of stairs, sides and top of upstand kerbs, sides and bottom of channels and sinkings, surfaces of fitment, working slabs and the like	57.10	57.10	57.10	11179
11180	Rake out joints between tiles and point in natural or coloured cement and sand mortar on existing tiled surface	48.70	48.60	48.60	11180
	Add to either of Items 11169 to 11171 and 11173 to 11176 inclusive for mosaic tiles of Japan origin.....			25%	
	Add to either of Items 11169 to 11171 and 11173 to 11176 inclusive for mosaic tiles of Italy/Spain origin.....			30%	
	CERAMIC WALL TILING				
	Unglazed ceramic wall tiles to BS EN ISO 10545 in any colour and surface finish : -				
		Thickness	4 - 7 mm		
		Tile Size	N.e. 0.05 m ²	Exceeding 0.05 m ²	
			A	B	
			\$	\$	
11181	Tiling on walls, columns, cills, top and edges of slabs, surfaces of fitment and the like.....		150.30	133.80	11181
11182	Lay only tiling on walls, columns, cills, top edges of slabs and the like.....		68.30	48.40	11182
11183	Rake out joints between tiles and point in natural or coloured cement and sand mortar on existing tiled surface		39.00	26.00	11183
11184	Hack out and replace tile in isolated patches and point to match existing.....		169.60	153.10	11184
	Add to either of Items 11181 and 11184 for unglazed ceramic wall tiles of Japan origin.....			25%	
	Add to either of Items 11181 and 11184 for unglazed ceramic wall tiles of Italy/Spain origin.....			30%	
	Add to either of Items 11181 and 11184 for unglazed ceramic wall tiles of U.K./Germany origin.....			35%	
	Glazed ceramic wall tiles to BS EN ISO 10545 in any colour and surface finish : -				
		Thickness	4 - 7 mm		
		Tile Size	N.e. 0.05 m ²	Exceeding 0.05 m ²	
			A	B	
			\$	\$	
11185	Tiling on walls, columns, cills, top and edges of slabs, surfaces of fitment and the like.....		167.20	160.10	11185
11186	Lay only tiling on walls, columns, cills, top edges of slabs and the like.....		68.30	48.40	11186
11187	Rake out joints between tiles and point in natural or coloured cement and sand mortar on existing tiled surface		39.00	26.00	11187
11188	Hack out and replace tile in isolated patches and point to match existing.....		186.60	179.40	11188

Item	CERAMIC WALL TILING (CONT'D)			Item
	Glazed ceramic wall tiles to BS EN ISO 10545 in any colour and surface finish : - (cont'd)			
	Add to either of Items 11185 and 11188 for glazed ceramic wall tiles of Japan origin.....		25%	
	Add to either of Items 11185 and 11188 for glazed ceramic wall tiles of Italy/Spain origin.....		30%	
	Add to either of Items 11185 and 11188 for glazed ceramic wall tiles of U.K./Germany origin.....		35%	
	SWIMMING POOL TILING	Supply and fix	Fix only	
	Italy/Spain origin glazed ceramic swimming pool tiles in any size, colour, surface finish and thickness : -			
	<i>Per square metre</i>	A	B	
		\$	\$	
11189	Sides of swimming pool; laid in pattern.....	327.50	87.40	11189
11190	Bottom of swimming pool.....	315.10	75.60	11190
11191	Ditto; sloping.....	319.00	79.30	11191
11192	Steps, reveal, sides and soffit of recess to sides of swimming pool.....	333.60	93.30	11192
	<i>Per linear metre</i>			
11193	Extra over Item 11189 for pool edging tile with safety marking.....	642.00	-	11193
11194	Extra over Item 11189 for pool edging tile with grooved and safety marking.....	670.20	-	11194
11195	Extra over for tile with coved bottom between sides and bottom of swimming pool.....	24.50	-	11195
11196	Extra over for tile with coved bottom between sides and bottom of overflow channel.....	51.60	-	11196
11197	Extra over for corner tiles.....	38.10	-	11197
11198	Coved skirting tiles in any size, colour and thickness.....	148.60	-	11198
11199	Nosing tiles with finger grip in any size, colour and thickness.....	340.40	-	11199
11200	Overflow channel in any size, colour and thickness.....	1,000.80	-	11200
11201	PVC channel grating of any size, colour and thickness.....	361.70	-	11201
	<i>Each</i>			
11202	Add to Item 11200 for overflow channel with drainage outlet of any size.....	104.70	-	11202
11203	Lane/depth marker tiles in any size, colour and thickness.....	507.40	-	11203
	<i>Per pair</i>			
11204	Overflow channel internal angle	262.40	-	11204
11205	Pool edging tile internal angle with safety marking.....	241.30	-	11205
	Add to either of Items 11189 to 11192 inclusive and Items 11198 to 11200 inclusive for swimming pool tiles of U.K./Germany origin.....		5%	
	Add to either of Item 11201 and Items 11203 to 11205 inclusive for swimming pool tiles of U.K./Germany origin.....		2%	
	<i>Per square metre</i>		A	
			\$	
11206	Rake out joints between tiles and point in approved grouting material on existing tiled surfaces.....		55.60	11206

Item	PRECAST CONCRETE PAVING SLAB OR BLOCK				Item		
	Precast concrete paving slabs (1:2:4) in any size, colour and surface finish, rectangular or irregular shape : -	Supply and lay		Lay only			
	<i>Per square metre</i>	A	B				
		\$	\$				
11207	Precast paving slab 50 mm thick laid on and including 25 mm thick sand bedding.....	112.90	41.90		11207		
11208	Ditto but 50 mm thick sand bedding.....	118.10	47.10		11208		
11209	Precast paving slab 50 mm thick laid on and including 25 mm thick cement and sand or granite fines (1:3) bedding.....	142.60	71.60		11209		
	Precast concrete blocks laid in stretcher bond, basket wave, herring bone patterns or any mixed colour patterns and on sand bedding as required including all necessary cutting and trimming edges with cement and pouring sand to joints : -	Supply and lay		Lay only			
	<i>Per square metre</i>	Block thickness (mm)					
		60	80				
		A	B	C			
		\$	\$	\$			
11210	200 x 100 mm Natural grey colour rectangular blocks laid on 25 mm thick sand bedding	160.50	206.20	46.40	11210		
11211	Ditto but on 50 mm thick sand bedding	165.60	211.20	51.50	11211		
11212	200 x 100 mm Red, brown, yellow or charcoal colour rectangular blocks laid on 25 mm thick sand bedding.....	173.20	223.90	46.40	11212		
11213	Ditto but on 50 mm thick sand bedding	178.20	229.00	51.50	11213		
11214	225 x 112.50 mm Natural grey colour interlocking blocks laid on and including 25 mm thick sand bedding.....	173.20	223.90	46.40	11214		
11215	Ditto but 50 mm thick sand bedding.....	178.20	229.00	51.50	11215		
11216	225 x 112.50 mm Red, brown, yellow or charcoal colour interlocking blocks laid on and including 25 mm thick sand bedding	185.90	236.60	46.40	11216		
11217	Ditto but 50 mm thick sand bedding	190.90	241.60	51.50	11217		
	RE-CONSTITUTED ARTIFICIAL GRANITE WALL AND FLOOR TILING	Strip tile		Square/ rectangular tile			
	Re-constituted artificial granite tiles in any colour and surface finish : -	10 - 15 mm thick		12 - 18 mm thick			
	<i>Per square metre</i>	Tile Size	N.e. 0.01 m ²	Exceeding 0.01 m ²	N.e. 0.01 m ²	Exceeding 0.01 m ²	
			A	B	C	D	
			\$	\$	\$	\$	
11218	Tiling on floors.....		234.00	222.50	221.10	209.60	11218
11219	Tiling on walls or columns.....		241.10	227.70	228.30	216.80	11219
11220	Tiling to treads and risers, return ends, sides and top of upstand kerbs, sides and bottom of channels and sinkings, surface of fitment, working benches and the like.....		254.00	239.70	240.50	226.20	11220
	<i>Per linear metre</i>						
11221	Extra over for corner tiles.....		18.10	18.20	69.00	67.70	11221
	Add to either of Items 11218 to 11220 inclusive for re-constituted artificial granite tiles of Japan origin.....					25%	

Item	RE-CONSTITUTED ARTIFICIAL GRANITE WALL AND FLOOR TILING (CONT'D)				Item			
	Re-constituted artificial granite tiles in any colour and surface finish : - (cont'd)							
		Strip tile		Square/ rectangular tile				
		10 - 15 mm thick		12 - 18 mm thick				
	Tile Size	N.e. 0.01 m ²	Exceed- ing 0.01 m ²	N.e. 0.01 m ²	Exceed- ing 0.01 m ²			
		A	B	C	D			
	<i>Per square metre</i>	\$	\$	\$	\$			
11222	Lay only tiling on floor.....	79.10	60.40	79.10	60.40	11222		
11223	Lay only tiling on walls or columns.....	86.30	72.00	86.30	72.00	11223		
11224	Lay only tiling to treads and risers, end of stairs, sides and top of upstand kerbs, sides and bottom of channels and sinkings, surfaces of fitment, working slabs and the like.....	91.70	69.90	91.70	69.90	11224		
11225	Rake out joints between tiles and point in natural or coloured cement and sand mortar on existing tiled surface.....	29.00	19.30	28.90	19.30	11225		
11226	Hack out and replace tile in isolated patches and point to match existing.....	261.70	245.40	248.80	232.50	11226		
	Add to Item 11226 for re-constituted artificial granite tiles of Japan origin.....					25%		
	CLAY / BRICK PAVING							
	Clay/ brick pavers in any size and colour, laid in stretcher bond, basket wave, herring bone patterns : -							
		Thickness (mm)						
		43	50	55	60	65	76	
	<i>Per square metre</i>	A	B	C	D	E	F	
		\$	\$	\$	\$	\$	\$	
11227	Clay/brick pavers laid on and including 25 mm thick sand bedding.....	204.50	220.50	236.50	252.50	268.50	302.90	11227
11228	Ditto but 50 mm thick sand bedding.....	212.10	228.10	244.10	260.10	276.10	310.50	11228
11229	Clay/brick pavers laid on and including 25 mm thick cement and sand (1:3) bedding screed.....	244.00	260.00	276.00	292.00	308.10	342.40	11229
11230	Lay only on and including 25 mm thick sand bedding.....	43.60	44.10	44.50	45.00	45.50	45.90	11230
11231	Lay only on and including 50 mm thick sand bedding.....	48.70	49.20	49.60	50.10	50.50	51.00	11231
11232	Lay only on and including 25 mm thick cement and sand or granite fines (1:3) bedding.....	70.00	70.50	70.90	71.40	71.80	72.30	11232
	<i>Per linear metre</i>						A	
							\$	
11233	232 x 115 x 76 mm kerb brick on sand bed.....						50.10	11233
11234	232 x 115 x 76 mm kerb brick on mortar.....						53.00	11234
	Add to either of Items 11227 to 11229 inclusive and Items 11233 to 11234 inclusive for clay brick pavers of Australia/U.K./Germany origin.....							35%

Item	STONE SLABS					Item
	Asian origin natural marble or granite slabs in any size, shape, pattern and colour required : -	Marble/Granite slab				
		Thickness (mm)				
		20	25	32	40	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
11235	Marble slabs, polished surface laid on floors.....	-	-	666.50	786.00	11235
11236	Marble slabs, polished fixed on walls, columns or vertical surfaces.....	694.10	744.40	815.10	936.10	11236
11237	Marble slabs, polished surface laid to treads and risers, return ends, top and sides of counters, window cills and the like including all necessary cutting and forming holes.....	580.30	638.60	710.30	838.70	11237
11238	Granite slabs, polished/flamed surface laid on floors.....	-	-	696.60	820.40	11238
11239	Granite slabs, fine hammered dressed surface laid on floors.....	-	-	879.20	1,003.00	11239
11240	Granite slabs, polished/flamed fixed on walls, columns or vertical surfaces.....	717.50	767.40	845.50	970.10	11240
11241	Granite slabs, fine hammer dressed surfaced fixed on walls, columns or vertical surfaces.....	900.10	950.00	1,028.10	1,152.60	11241
11242	Granite slabs, polished/flamed surface laid to treads and risers, return ends, top and sides of counters, window cills and the like including all necessary cutting and forming holes.....	604.90	662.80	744.50	875.60	11242
11243	Granite slabs, fine hammered dressed surface laid to treads and risers, return ends, top and sides of counters, window cills and the like including all necessary cutting and forming holes.....	796.20	854.00	935.80	1,066.90	11243
		Marble/Granite slab				
		Thickness (mm)				
		20-30		30-40		
	<i>Per linear metre</i>	A \$		B \$		
11244	Moulding, marble/granite polished surface n.e. 100 mm wide.....	134.80		182.20		11244
11245	Ditto but 100 - 200 mm wide.....	250.30		318.30		11245
	Extra over Items 11235 to 11245 for granite slab of European or American origin.....					20%
		Marble/Granite slab				
		Thickness (mm)				
		20-30		30-40		
	<i>Per square metre</i>	A \$		B \$		
11246	Lay only slabs on floors.....	77.30		80.60		11246
11247	Fix/lay only slabs to walls, columns or vertical surfaces.....	241.50		245.20		11247
11248	Lay only slabs to treads and risers, return ends, top and sides of counters, windows cills and the like, including all necessary cutting and forming holes.....	91.30		101.30		11248
		Marble/Granite slab				
		Thickness (mm)				
		20-30		30-40		
	<i>Per linear metre</i>	A \$		B \$		
11249	Lay only moulding n.e. 100 mm wide.....	26.30		28.90		11249
11250	Lay only moulding 100 - 200 mm wide.....	31.50		34.40		11250

Item	STONE SLABS (CONT'D)					Item	
	Supply and lay Asian origin granite paving slabs in any size, shape, pattern and colour required : -	Supply and lay	Take down and clear away	Take down and set aside for re-use	Lay only		
	<i>Per square metre</i>	A \$	B \$	C \$	D \$		
11251	50 mm thick hammer dressed, flamed or polished granite paving slabs and steps laid on and including 50 mm thick sand.....	624.60	25.50	30.50	96.70	11251	
11252	75 mm ditto.....	762.70	30.50	33.90	104.40	11252	
11253	100 mm ditto.....	919.50	38.20	42.40	112.10	11253	
11254	50 mm thick hammer dressed, flamed or polished granite paving slabs and steps laid on and including cement and sand (1:3) bedding.....	753.70	42.40	50.90	164.70	11254	
11255	75 mm ditto.....	922.30	46.70	56.80	180.10	11255	
11256	100 mm ditto.....	1,156.10	50.90	63.60	203.20	11256	
	RESIN STONE SLAB						
	Resin stone slabs 13 mm thick, in any size, shape, pattern and colour required, bedded and jointed in cement and sand (1:3) dabs, pointed in cement slurry and including forming splayed edges and polishing : -						
	<i>Per square metre</i>					A \$	
11257	Tiling on floors					452.90	11257
11258	Tiling on walls, columns or vertical surfaces.....					459.30	11258
11259	Tiling to treads and risers, end of stairs, top and sides of counters, window cills and the like, including all necessary cutting and forming holes					483.90	11259
11260	Lay only tiling on floors					66.00	11260
11261	Fix only tiling on walls, columns or vertical surfaces.....					71.90	11261
11262	Lay only tiling to treads and risers, end of stairs, top and sides of counters, window cills and the like, including all necessary cutting and forming holes					77.80	11262
	MARBLE/GRANITE TILES						
	Marble/granite tiles 8 - 12 mm thick, in any size, shape, pattern, colour and origin required, bedded and jointed in cement and sand (1:3) dabs, pointed in cement slurry and including forming splay edges and polishing : -						
	<i>Per square metre</i>						
11263	Tiling on walls, columns, cills, top and edges of slabs, surfaces of fitment and the like.....					420.90	11263
11264	Fix only tiling on walls, columns, cills, top and edges of slabs, surfaces of fitment and the like.....					44.20	11264
11265	Rake out joints between tiles and point in natural or coloured cement and sand mortar on existing tiled surface.....					24.40	11265
11266	Hack out and replace tile in isolated patches and point to match existing.....					440.20	11266

Item	SUNDRY PAVING, ETC.		Item
	<i>Per square metre</i>	A \$	
11267	Pebble finish 20 mm thick Mix "A" comprise cement, sand and pebble (2:2:3) laid on floor with washed finish.....	103.50	11267
11268	Pebble finish 20 mm thick Mix "B" comprise cement and pebble (2:3) rendering to vertical surfaces with washed finish.....	129.90	11268
11269	Pebble paving formed with selected pebbles exceeding 25 mm but n.e. 75 mm gauge, pressed into top of concrete bed (measured separately) before setting to give roughly level surfaces, including neatly recess pointing between pebbles in cement and sand (1:3) mortar	206.30	11269
11270	Small stone paving formed with selected stones exceeding 25 mm but n.e. 100 mm gauge, pressed into top of concrete bed (measured separately) before setting to give roughly level surfaces, including dressing off top of stones after setting to give roughly level surfaces and neatly recess pointing between stones in cement and sand (1:3) mortar	286.30	11270
11271	Silicone carbide non-slip grains sprinkled on and lightly trowelled into surface of paving before setting, at a rate of 0.50 kg/m ² paving.....	25.30	11271
11272	Ditto but at rate of 1 kg/m ² paving	50.60	11272
	<i>Per linear metre</i>		
11273	15 x 25 mm Non-slip insert strips bedded in paving, stair treads or steps as G.S. Clause 18.74.....	23.20	11273
11274	75 x 150 x 10 mm Plain vitreous clay or quarry non-slip nosing tiles with grooves or raisings on top surface, bedded, jointed and pointed in cement and sand (1:3) mortar	20.80	11274
	TACTILES		
	Supply and fix rubber/PVC tactiles with adhesive in any pattern, colour, size, thickness and origin, all in strict accordance with manufacturer's instructions : -		
	<i>Per square metre</i>		
11275	Rubber/plastic tactiles for indoor use.....	437.90	11275
11276	Rubber/plastic tactiles for outdoor use.....	718.00	11276
	Supply and fix concrete block tactiles with mortar in any pattern, colour, size, thickness and origin, all in strict accordance with manufacturer's instructions : -		
	<i>Per square metre</i>		
11277	Concrete block tactiles	592.50	11277
11278	Synthetic rubber tactiles with concrete base.....	1,504.60	11278
	Supply and fix ceramic/homogenous ceramic tactiles with mortar in any pattern, colour, size, thickness and origin, all in strict accordance with manufacturer's instructions : -		
	<i>Per square metre</i>		
11279	Ceramic /homogeneous ceramic tactiles.....	958.90	11279
	Supply and fix artificial granite tactiles with mortar in any pattern, colour, size, thickness and origin, all in strict accordance with manufacturer's instructions : -		
	<i>Per square metre</i>		
11280	Artificial granite tactiles.....	1,449.50	11280

Item	TACTILES (CONT'D)										Item									
	Supply and fix proprietary stainless steel tactile marker grade 316 with adhesive, fixing bolts and nuts including drilling, cut holes, make good and all necessary fixing accessories, lay in any pattern and any origin all in strict accordance with the manufacturer's instructions:-										Supply and fix									
	Each										A									
11281	23mm dia. x 5mm (positional).....										\$									
11281											12.00	11281								
11282	30mm x 280mm x 5mm (directional).....										87.70	11282								
DIVISION STRIPS																				
3 mm thick																				
	Depth (mm)	Plastic			Stainless steel			Brass												
		20	25	40	20	25	40	20	25	40										
		A	B	C	D	E	F	G	H	I										
		\$	\$	\$	\$	\$	\$	\$	\$	\$										
	Per linear metre																			
11283	Division strips set between different floor or wall finishes.....										8.00	8.80	10.10	17.90	21.20	28.40	21.20	25.10	35.00	11283
PROPRIETARY SUSPENDED CEILING SYSTEM FOR ACOUSTIC CEILING TILES; SUSPENSION SYSTEM (GRIDS) ONLY																				
Asian origin (other than Japan) proprietary suspension system as G.S. Items 13.23 and 13.45 :-																				
									Fit for square or rectangular											
									Tile size (m ²)	n.e. 0.36	exc. 0.36									
									A	B										
									\$	\$										
11284	Galvanised mild steel suspension system.....								61.10	55.00	11284									
11285	Aluminium suspension system.....								53.80	48.40	11285									
11286	Composite galvanised mild steel and aluminium suspension system.....								57.00	51.30	11286									
	Add to either of Items 11284 to 11286 inclusive for suspension system suitable for foam tape or sealing mastic.....								15%	15%										
	Add to either of Items 11284 to 11286 inclusive for suspension system of Japan origin.....								15%	15%										
	Add to either of Items 11284 to 11286 inclusive for suspension system of European/American/Australian origin.....								20%	20%										
11287	Fix only suspension system of any type.....								25.30	25.30	11287									
11288	Take down and clear away suspension system of any type.....								12.10	12.10	11288									
11289	Take down and set aside for re-use suspension system of any type except suspension system suitable for foam tape or sealing mastic.....								18.10	18.10	11289									
	Per linear metre																			
11290	Extra over Items 11284 to 11286 inclusive for forming openings for light fittings or air grilles module size exceeding 1.50 m long and n.e. 200 mm wide.....								24.60	24.60	11290									
	Each																			
11291	Extra over Items 11284 to 11286 inclusive for forming openings for light fittings or air grilles module size n.e. 1.50 m long.....								31.10	31.10	11291									

Item	PROPRIETARY SUSPENDED CEILING SYSTEM FOR ACOUSTIC CEILING TILES; ACOUSTIC CEILING TILES ONLY	Tile size (m ²)		Item
		n.e. 0.36	exc. 0.36	
		A	B	
	Asian origin (other than Japan) acoustic ceiling tiles in any thickness as G.S. Item 13.22, measured net (no deduction to voids less than 0.05 m ²) : -			
	<i>Per square metre</i>			
11292	Wood or other organic fibre perforated acoustic ceiling tiles fixed to timber soffits or walls.....	52.20	55.80	11292
11293	Ditto but fixing with adhesive to plastered soffits or walls.....	51.80	54.30	11293
11294	Ditto but fixing to suspension system (measured separately).....	50.30	52.20	11294
11295	Mineral fibre/rock wool acoustic tiles with fissured design tiles fixed to timber soffits or walls.....	71.80	77.30	11295
11296	Ditto but fixing with adhesive to plastered soffits or walls.....	71.40	75.80	11296
11297	Ditto but fixing to suspension system (measured separately).....	69.90	73.80	11297
11298	Moisture resistant mineral fibre/rock wool acoustic tiles fixed to timber soffits or wall.....	108.60	117.80	11298
11299	Ditto but fixing with adhesive to plastered soffits or walls.....	108.30	116.30	11299
11300	Ditto but fixing to suspension system (measured separately).....	106.70	114.20	11300
11301	Moisture resistant vinyl faced mineral fibre/rock wool acoustic tiles fixed to timber soffits or wall.....	127.00	138.00	11301
11302	Ditto but fixing with adhesive to plastered soffits or walls.....	126.60	136.50	11302
11303	Ditto but fixing to suspension system (measured separately).....	125.10	134.40	11303
11304	Moisture resistant hygiene acoustic tiles fixed to timber soffits or wall.....	152.20	165.90	11304
11305	Ditto but fixing with adhesive to plastered soffits or walls.....	151.80	164.50	11305
11306	Ditto but fixing to suspension system (measured separately).....	150.50	162.60	11306
11307	Moisture resistant metal foil faced mineral fibre/rock wool acoustic tiles fixed to timber soffits or wall.....	218.20	238.50	11307
11308	Ditto but fixing with adhesive to plastered soffits or walls.....	217.90	237.20	11308
11309	Ditto but fixing to suspension system (measured separately).....	216.50	235.30	11309
11310	Moisture resistant metal foil faced bio-proof hygiene mineral fibre/rock wool acoustic tiles fixed to suspension system (measured separately).....	236.80	257.60	11310
11311	Ditto but sealed into the suspension system with low compression foam tape and/or silicone sealing mastic (suspension system measured separately).....	284.60	301.10	11311
11312	Take down and clear away acoustic ceiling tiles of any type.....	6.00	6.00	11312
11313	Take down, set aside for re-use acoustic ceiling tiles of any type (other than sealed type).....	19.40	19.40	11313
11314	Take down, set aside for re-use sealed acoustic ceiling tiles.....	38.70	38.70	11314
11315	Fix only ceiling tiles to timber soffits or wall of any type.....	16.60	16.60	11315
11316	Fix only ceiling tiles to plastered soffits or wall of any type.....	16.60	16.60	11316
11317	Fix only ceiling tiles to suspension system of any type.....	16.60	16.60	11317
11318	Fix only ceiling tiles sealed into the suspension system with low compression foam tape and/or silicone sealing mastic.....	44.60	44.60	11318

Item	PROPRIETARY SUSPENDED CEILING SYSTEM FOR ACOUSTIC CEILING TILES; ACOUSTIC CEILING TILES ONLY (CONT'D)				Item
	<i>Each</i>	Tile size (m ²)			
		n.e. 0.36	exc. 0.36		
		A	B		
		\$	\$		
11319	Forming openings through acoustic tiles (non-sealed type) for light fittings, sprinkler heads, smoke detectors, etc. in size n.e. 0.05 m ² including plywood backing as required.....	17.00	17.00		11319
11320	Forming openings through acoustic tiles (sealed type) for light fittings, sprinkler heads, smoke detectors, etc. in size n.e. 0.05 m ² including plywood backing as required and sealed into the system with low compression foam tape and/or silicone sealing mastic.....	23.80	23.80		11320
	Add to either of Items 11292 to 11311 inclusive for acoustic tiles of Japan origin			15%	
	Add to either of Items 11292 to 11311 inclusive for acoustic tiles of European/American/Australian origin			20%	
	PROPRIETARY SUSPENDED CEILING SYSTEM FOR METAL CEILING; SUSPENSION SYSTEM (GRIDS) ONLY				
	Asian origin (other than Japan) proprietary suspension system recommended by the manufacturer for approved ceiling type : -	Strip/panel			
		Lay-in	Clip-in		
		Internal type	Internal type	External type	
		A	B	C	
		\$	\$	\$	
11321	Galvanised mild steel suspension system	91.80	100.30	120.40	11321
11322	Aluminium suspension system.....	90.30	105.20	118.40	11322
11323	Composite galvanised mild steel and aluminium suspension system.....	91.00	102.80	119.40	11323
11324	Extra over Items 11321 to 11323 for air-tight suspension system.....	52.20	112.70	-	11324
	Add to either of Items 11321 to 11323 inclusive for suspension system of Japan origin.....	15%	15%	15%	
	Add to either of Items 11321 to 11323 inclusive for suspension system of European/American/Australian origin.....	20%	20%	20%	
11325	Take down and clear away suspension system of any type.....	15.50	15.50	15.50	11325
11326	Take down and set aside for re-use suspension system generally.....	26.80	26.80	26.80	11326
11327	Take down and set aside for re-use suspension system of air-tight type.....	40.50	40.50	-	11327
11328	Fix only suspension system generally.....	27.80	27.80	27.80	11328
11329	Fix only suspension system of air-tight type.....	55.70	55.70	-	11329
	<i>Per linear metre</i>				
11330	Extra over Items 11321 to 11323 inclusive for forming openings for light fittings or air grilles module size exceeding 1.50 m long and n.e. 200 mm wide generally.....	22.80	22.80	22.80	11330
11331	Extra over Items 11321 to 11323 inclusive for forming openings for light fittings or air grilles module size exceeding 1.50 m long and n.e. 200 mm wide for suspension system of air-tight type.....	49.40	49.40	-	11331
	<i>Each</i>				
11332	Extra over Items 11321 to 11323 inclusive for forming openings for light fittings or air grilles module size n.e. 1.50 m long for suspension system generally.....	28.50	28.50	28.50	11332
11333	Extra over Items 11321 to 11323 inclusive for forming openings for light fittings or air grilles module size n.e. 1.50 m long for suspension system air-tight type.....	116.10	116.10	-	11333

Item	PROPRIETARY SUSPENDED CEILING SYSTEMS FOR METAL CEILING; PANEL/STRIP ONLY						Item
	Aluminium panel/strip			G.M.S. panel/strip			
	Lay-in	Clip-in		Lay-in	Clip-in		
	Internal type	Internal type	External type	Internal type	Internal type	External type	
	A	B	C	D	E	F	
	\$	\$	\$	\$	\$	\$	
	<i>Per square metre</i>						
11334	Ceiling panel/strip module size n.e. 0.36 m ²						11334
11335	Ditto, exceeding 0.36 m ²						11335
11336	Extra over Items 11334 to 11335 inclusive for additional sound absorbing matts on the rear side of the panel/strip.....						11336
11337	Extra over Items 11334 to 11335 inclusive for air-tight panel/strip.....						11337
11338	Take down and clear away ceiling panel/strip of any type.....						11338
11339	Take down and clear away ceiling panel/strip of air-tight type.....						11339
11340	Take down and set aside for re-use away ceiling panel/strip generally.....						11340
11341	Take down and set aside for re-use away ceiling panel/strip of any type of air-tight type.....						11341
11342	Fix only ceiling panel/strip generally.....						11342
11343	Fix only ceiling panel/strip of air-tight type.....						11343
	<i>Per linear metre</i>						
11344	Extra over Items 11334 to 11335 inclusive for forming openings for light fittings or air grilles module size exceeding 1.50 m long and n.e. 200 mm wide for panel/strip generally.....						11344
11345	Extra over Items 11334 to 11335 inclusive for forming openings for light fittings or air grilles module size exceeding 1.50 m long and n.e. 200 mm wide for panel/strip of air-tight type.....						11345
	<i>Each</i>						
11346	Extra over Items 11334 to 11335 inclusive for forming openings for light fittings, air grilles and the like module size n.e. 1.50 m long for panel/strip generally.....						11346
11347	Ditto for forming opening for sprinkler heads, smoke detectors, etc.....						11347
11348	Extra over Items 11334 to 11335 inclusive for forming openings for light fittings, air grilles and the like module size n.e. 1.50 m long for panel/strip of air-tight type.....						11348
11349	Ditto for forming opening for sprinkler heads, smoke detectors, etc.....						11349
	Add to either of Items 11334 to 11335 inclusive for panel/strip of Japan origin.....						
	Add to either of Items 11334 to 11335 inclusive for panel/strip of European/American/Australian origin.....						
	Add to either of Items 11334 to 11335 inclusive for panel/strip of perforated ceiling type.....						

Item	RAISED ACCESSED FLOORING				Item	
	Raised accessed flooring in any pedestals height as G.S. Items 18.148 to 18.165 : -					
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per square metre</i>					
11350	Flooring with bare panel.....	434.70	33.40	40.20	84.50	11350
11351	Flooring with high pressure laminated panel finish.....	664.10	33.40	40.20	84.50	11351
11352	Flooring with carpet tile finish.....	652.10	33.40	40.20	84.50	11352
11353	Flooring with vinyl tile finish.....	676.20	33.40	40.20	84.50	11353
11354	Access ramp.....	1,476.60	34.00	43.30	196.90	11354
11355	Steps.....	1,230.50	31.60	35.30	147.70	11355
	<i>Per linear metre</i>					
11356	Standard railing.....	1,845.80	15.50	21.70	155.00	11356
	<i>Each</i>				A	
					\$	
11357	Set of picker and tool (lifting device).....				483.00	11357
	TAKING DOWN EXISTING PLASTER, PAVINGS, TILING, SUSPENDED CEILING, ETC.					
	(Note : - The items under column A hereafter shall not be measured if the wall or slab, etc. to which the finish being affixed is to be taken down.)					
	Take down and clear away, or set aside for re-use as required, the following from any position : -					
			Take down and clear away	Take down and set aside for re-use		
	<i>Per square metre</i>		A	B		
			\$	\$		
11358	Expanded metal lathing		3.70	-	11358	
11360	Lightweight screeds to floors and roofs of any thickness		14.20	-	11360	
11360	Cement and sand paving, floor screeds or floor rendering of any mix or thickness, including covering to stair treads, risers, kerbs, channels and the like		12.40	-	11360	
11361	Cement and sand wall or ceiling rendering, screeds, skirting and the like		15.50	-	11361	
11362	Internal plaster, external plaster, acoustic plaster, Shanghai plaster or gypsum plaster of any mix, thickness, or number of coats.....		14.20	-	11362	
11363	Flexible sheets and skirting of any type to floor or wall (screed measured separately).....		10.80	13.90	11363	
11364	"Sandtex-trowel" finish including backing screed if any		21.70	-	11364	
11365	Granolithic or terrazzo paving of any mix or thickness, including covering to stair treads, risers, kerbs, channels and the like, and backing screed if any		20.40	-	11365	
11366	Granolithic or terrazzo wall dados and skirting of any mix or thickness including backing screed if any.....		16.70	-	11366	
11367	Ceramic or quarry floor tiling, skirting, etc., of any type (screed measured separately)		14.20	-	11367	
11368	Precast concrete floor tiling or skirting of any thickness (ditto)		13.60	18.50	11368	
11369	Terrazzo floor tiling, skirting, etc. of any type (ditto).....		16.10	22.20	11369	
11370	Cork tiling of any thickness to floor, wall or ceiling (ditto)		5.60	7.40	11370	

Item	TAKING DOWN EXISTING PLASTER, PAVINGS, TILING, SUSPENDED CEILING, ETC. (CONT'D)			Item
	(Note : - The items under column A hereafter shall not be measured if the wall or slab, etc. to which the finish being affixed is to be taken down.)	Take down and clear away	Take down and set aside for re-use	
	Take down and clear away, or set aside for re-use as required, the following from any position : - (cont'd)			
	<i>Per square metre</i>	A \$	B \$	
11371	Flexible tiles and skirting of any type to floor or wall (ditto).....	10.80	13.90	11371
11372	Rubber tiles and sheets to floors, and treads and risers of any type (ditto)	10.80	13.90	11372
11373	Mosaic floor or wall tiling of any type (ditto)	14.20	-	11373
11374	Glazed or ceramic wall tiling of any type (ditto)	14.20	-	11374
11375	Precast concrete paving slabs of any thickness (screed measured separately)	13.60	18.50	11375
11376	Rectangular or interlocking precast concrete paving blocks of any thickness (ditto)	16.10	21.60	11376
11377	Artificial granite floor or wall tiling of any thickness (ditto).....	16.70	23.20	11377
11378	Clay brick paver of any size (ditto).....	15.10	20.10	11378
11379	Natural marble or granite slabs in any thickness on floors, walls, columns, vertical surfaces in dadoes and wall lining, treads and risers, end of stairs, top and sides of counters, window cills and the like	16.70	23.20	11379
11380	Resin stone slabs in any thickness (screed measured separately)	15.50	21.60	11380
	<i>Per square metre</i>			
11381	Marble/granite tiles of any size (ditto).....	14.20	19.30	11381
11382	Pebble or small stone paving of any mix or thickness.....	10.50	-	11382
	<i>Per linear metre</i>			
11383	Plaster of paris mouldings and moulded cornices n.e. 150 mm girth, complete with bracketing and the like.....	3.50	-	11383
11384	Ditto 150 - 300 mm girth, ditto	5.00	-	11384
11385	Brick curb of any size.....	6.30	9.30	11385
11386	Natural marble or granite moulding n.e. 100 mm wide.....	6.30	9.30	11386
11387	Ditto 100 - 200 mm wide.....	7.50	11.10	11387
	SUPPLY ONLY OF MATERIALS			
	<i>Per square metre</i>		A \$	
11388	6 mm Thick cork tiles		67.60	11388
11389	9 mm Ditto		102.60	11389
11390	12 mm Ditto		132.70	11390
11391	Glazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick.....		107.10	11391

Item	SUPPLY ONLY OF MATERIALS (CONT'D)	A \$	Item
	<i>Per square metre</i>		
11392	Glazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick.....	123.60	11392
11393	Glazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick.....	126.10	11393
11394	Glazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick.....	145.60	11394
11395	Unglazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick.....	90.60	11395
11396	Unglazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick.....	98.80	11396
11397	Unglazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick.....	106.60	11397
11398	Unglazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick.....	116.30	11398
	<i>Per linear metre</i>		
11399	Glazed ceramic skirting tiles 100 mm high.....	39.20	11399
11400	Glazed ceramic skirting tiles 150 mm high.....	50.20	11400
11401	Glazed ceramic skirting tiles 200 mm high.....	65.90	11401
11402	Unglazed ceramic skirting tiles 100 mm high.....	34.50	11402
11403	Unglazed ceramic skirting tiles 150 mm high.....	43.90	11403
11404	Unglazed ceramic skirting tiles 200 mm high.....	58.00	11404
	<i>Per square metre</i>		
11405	Quarry floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick.....	107.10	11405
11406	Quarry floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick.....	115.30	11406
11407	Quarry floor tiles stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick.....	121.60	11407
11408	Quarry floor tiles stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick.....	134.10	11408
	<i>Per linear metre</i>		
11409	Quarry skirting tiles 100 mm high.....	40.80	11409
11410	Quarry skirting tiles 150 mm high.....	51.80	11410
11411	Quarry skirting tiles 200 mm high.....	68.70	11411
	<i>Per square metre</i>		
11412	Glazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Italy/Spain origin.....	155.60	11412
11413	Glazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Italy/Spain origin.....	177.60	11413
11414	Glazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Italy/Spain origin.....	185.30	11414
11415	Glazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Italy/Spain origin.....	211.90	11415
11416	Unglazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Italy/Spain origin.....	134.10	11416
11417	Unglazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Italy/Spain origin.....	145.30	11417
11418	Unglazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Italy/Spain origin.....	159.30	11418
11419	Unglazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Italy/Spain origin.....	172.90	11419

Item	SUPPLY ONLY OF MATERIALS (CONT'D)		Item
	<i>Per linear metre</i>	A	
		\$	
11420	Glazed ceramic skirting tiles 100 mm high of Italy/Spain origin.....	52.40	11420
11421	Glazed ceramic skirting tiles 150 mm high of Italy/Spain origin.....	66.90	11421
11422	Glazed ceramic skirting tiles 200 mm high of Italy/Spain origin.....	87.40	11422
11423	Unglazed ceramic skirting tiles 100 mm high of Italy/Spain origin.....	46.50	11423
11424	Unglazed ceramic skirting tiles 150 mm high of Italy/Spain origin.....	58.80	11424
11425	Unglazed ceramic skirting tiles 200 mm high of Italy/Spain origin.....	77.20	11425
	<i>Per square metre</i>		
11426	Quarry floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Italy/Spain origin.....	155.60	11426
11427	Quarry floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Italy/Spain origin.....	166.80	11427
11428	Quarry stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Italy/Spain origin.....	182.00	11428
11429	Quarry stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Italy/Spain origin.....	198.90	11429
	<i>Per linear metre</i>		
11430	Quarry skirting tiles 100 mm high of Italy/Spain origin.....	54.50	11430
11431	Quarry skirting tiles 150 mm high of Italy/Spain origin.....	68.90	11431
11432	Quarry skirting tiles 200 mm high of Italy/Spain origin.....	91.00	11432
	<i>Per square metre</i>		
11433	Glazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of U.K./Germany origin.....	163.60	11433
11434	Glazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of U.K./Germany origin.....	186.60	11434
11435	Glazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of U.K./Germany origin.....	194.60	11435
11436	Glazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of U.K./Germany origin.....	222.30	11436
11437	Unglazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of U.K./Germany origin.....	141.40	11437
11438	Unglazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of U.K./Germany origin.....	153.10	11438
11439	Unglazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of U.K./Germany origin.....	167.60	11439
11440	Unglazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of U.K./Germany origin.....	181.80	11440
	<i>Per linear metre</i>		
11441	Glazed ceramic skirting tiles 100 mm high of U.K./Germany origin.....	54.80	11441
11442	Glazed ceramic skirting tiles 150 mm high of U.K./Germany origin.....	69.90	11442
11443	Glazed ceramic skirting tiles 200 mm high of U.K./Germany origin.....	91.30	11443
11444	Unglazed ceramic skirting tiles 100 mm high of U.K./Germany origin.....	48.60	11444
11445	Unglazed ceramic skirting tiles 150 mm high of U.K./Germany origin.....	61.50	11445
11446	Unglazed ceramic skirting tiles 200 mm high of U.K./Germany origin.....	80.70	11446

Item	SUPPLY ONLY OF MATERIALS (CONT'D)	A \$	Item
	<i>Per square metre</i>		
11447	Quarry floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of U.K./Germany origin.....	163.60	11447
11448	Quarry floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of U.K./Germany origin.....	175.40	11448
11449	Quarry stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of U.K./Germany origin.....	191.20	11449
11450	Quarry stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of U.K./Germany origin.....	208.80	11450
	<i>Per linear metre</i>		
11451	Quarry skirting tiles 100 mm high of U.K./Germany origin.....	57.00	11451
11452	Quarry skirting tiles 150 mm high of U.K./Germany origin.....	72.00	11452
11453	Quarry skirting tiles 200 mm high of U.K./Germany origin.....	95.10	11453
	<i>Per square metre</i>		
11454	Glazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Japan origin.....	147.80	11454
11455	Glazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Japan origin.....	168.70	11455
11456	Glazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Japan origin.....	176.00	11456
11457	Glazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Japan origin.....	201.30	11457
11458	Unglazed ceramic floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Japan origin.....	127.40	11458
11459	Unglazed ceramic floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Japan origin.....	138.10	11459
11460	Unglazed ceramic stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Japan origin.....	151.30	11460
11461	Unglazed ceramic stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Japan origin.....	164.20	11461
	<i>Per linear metre</i>		
11462	Glazed ceramic skirting tiles 100 mm high of Japan origin.....	49.80	11462
11463	Glazed ceramic skirting tiles 150 mm high of Japan origin.....	63.60	11463
11464	Glazed ceramic skirting tiles 200 mm high of Japan origin.....	83.00	11464
11465	Unglazed ceramic skirting tiles 100 mm high of Japan origin.....	44.10	11465
11466	Unglazed ceramic skirting tiles 150 mm high of Japan origin.....	55.90	11466
11467	Unglazed ceramic skirting tiles 200 mm high of Japan origin.....	73.40	11467
	<i>Per square metre</i>		
11468	Quarry floor tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Japan origin.....	147.80	11468
11469	Quarry floor tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Japan origin.....	158.50	11469
11470	Quarry stair tread tiles to BS EN ISO 10545 n.e. 9.5 mm thick of Japan origin.....	172.90	11470
11471	Quarry stair tread tiles to BS EN ISO 10545 exceeding 9.5 mm thick of Japan origin.....	189.00	11471
	<i>Per linear metre</i>		
11472	Quarry skirting tiles 100 mm high of Japan origin.....	51.80	11472
11473	Quarry skirting tiles 150 mm high of Japan origin.....	65.40	11473
11474	Quarry skirting tiles 200 mm high of Japan origin.....	86.40	11474

Item	SUPPLY ONLY OF MATERIALS (CONT'D)		Item
	<i>Per square metre</i>	A	
		\$	
11475	Japan origin re-constituted artificial granite strip tile n.e. 0.01 m ² , 10 - 15 mm thick.....	172.40	11475
11476	Japan origin re-constituted artificial granite strip tile exceeding 0.01 m ² , 10 - 15 mm thick.....	176.20	11476
11477	Japan origin re-constituted artificial granite square/rectangular tile n.e. 0.01 m ² , 12 - 18 mm thick.....	159.40	11477
11478	Japan origin re-constituted artificial granite square/rectangular tile exceeding 0.01 m ² , 12 - 18 mm thick.....	163.10	11478
11479	Terrazzo floor tiles to BS EN 13748 in any colour and surface finish, 20 mm thick.....	100.30	11479
11480	Semi-flexible p.v.c. tiles in any colour and surface finish, 2.5 mm thick.....	66.10	11480
11481	Vinyl tiles in any colour and surface finish 2 mm thick.....	52.10	11481
11482	Linoleum tiles in any colour and surface finish 3.2 mm thick.....	180.60	11482
11483	Unbacked flexible sheet in any colour and surface finish, 1.2 mm thick.....	88.60	11483
11484	Unbacked flexible sheet in any colour and surface finish, 2 mm thick.....	134.10	11484
11485	Foam backed (1.5 mm thick) flexible sheet in any colour and surface finish, overall 3 mm thick.....	163.30	11485
11486	Linoleum flexible sheet in any colour and surface finish, 3.2 mm thick.....	284.20	11486
11487	Linoleum flexible sheet in any colour and surface finish, 4.5 mm thick.....	367.50	11487
11488	Antistat vinyl tiles, 2 mm thick.....	235.90	11488
11489	Antistat vinyl sheet, 2 mm thick.....	268.10	11489
11490	Rubber tile in any colour and surface finish, 4 mm thick.....	234.60	11490
11491	Rubber sheet in any colour and surface finish, 4 mm thick.....	293.30	11491
	<i>Per linear metre</i>		
11492	Preformed flexible PVC skirting 100 mm high coved bottom.....	23.50	11492
11493	'L' shape PVC skirting, 100 x 45 x 2 mm thick.....	37.50	11493
	<i>Per square metre</i>		
11494	Japan origin glazed ceramic mosaic tiles in any colour and size.....	133.80	11494
11495	Japan origin unglazed vitreous mosaic tiles in any colour and size.....	138.10	11495
11496	U.K./Germany origin unglazed ceramic wall tiles n.e. 0.05 m ²	120.70	11496
11497	U.K./Germany origin unglazed ceramic wall tiles exceeding 0.05 m ²	121.60	11497
11498	Italy/Spain origin unglazed ceramic wall tiles n.e. 0.05 m ²	114.00	11498
11499	Italy/Spain origin unglazed ceramic wall tiles exceeding 0.05 m ²	115.50	11499
11500	U.K./Germany origin glazed ceramic wall tiles n.e. 0.05 m ²	102.00	11500
11501	U.K./Germany origin glazed ceramic wall tiles exceeding 0.05 m ²	117.60	11501
11502	Italy/Spain origin glazed ceramic wall tiles n.e. 0.05 m ²	96.60	11502
11503	Italy/Spain origin glazed ceramic wall tiles exceeding 0.05 m ²	111.40	11503
11504	Italy/Spain origin glazed ceramic swimming pool tiles in any colour size, surface finish and thickness.....	229.60	11504
11505	U.K./Germany origin glazed ceramic swimming pool tiles in any colour size, surface finish and thickness.....	244.80	11505

Section 12

ROADWORK

ROADWORK

SPECIAL CONDITIONS

- | | |
|---|---|
| Measurement of excavation, concrete work, etc. | I. All excavation, concrete work, steel and metal work, plaster work and drainage work will be measured separately and paid for at appropriate rates under applicable Work Sections of this Schedule unless specifically described in this Section. |
| Measurement generally | <p>II. The measurement shall be the compacted thickness as specified by the Maintenance Surveyor, whether laid in one or more layers. No deductions shall be made for manholes, gullies, catchpits, inspection covers, columns or piers, etc. not exceeding 1.00 m².</p> <p>In the case of quadrants, the outer circular girth shall be measured.</p> |
| Rates generally | <p>III. Rates for all items shall include for any or all of the following as applicable : -</p> <ul style="list-style-type: none"> (a) Finishing surfaces level or to falls, gradients, crowns and cambers to exact profile required, with each successive surface finished parallel to the final finished surface. (b) Additional bulk of material required to allow for compaction and consolidation. (c) All wheeling and multi-handing of material to place of final incorporation in the work. (d) Maintenance and cleaning of surfaces. (e) Protection of curbs, masking and unmasking of drainage channels, manhole covers, gully gratings, expansion joints, road studs and road marking. (f) Provision, maintenance and removal of measures to maintain traffic flow including all temporary traffic diversion lighting and signs including labours and all charges incurred. (g) Provision, maintenance and removal of temporary road, walkway covers to trenches and the like. (h) Obtaining permits from Government departments before execution of the works. (i) Mobilization, maintenance and demobilization of paving machine, rollers, compaction plant, milling machine and the like. (j) Coring, testing and reinstatement with bituminous material shall include for : - <ul style="list-style-type: none"> (i) Marking the edges of the surfaces to be cored. (ii) Making good any overbreak, cracking or other damages. (iii) Cleaning up and removing surplus material and waste. (iv) Taking core samples, sealing and transferring in the proper sequence to core box and delivering them to place of testing. (v) Recording and submitting records and reports. (vi) Filling up core holes with appropriate materials. |

SPECIAL CONDITIONS (CONT'D)

- | | | |
|-----|--|---|
| IV. | Rates for granular sub-base and/or lean concrete sub-base shall further include for : - | Rates for granular sub-base and/or lean concrete |
| | (a) Trial areas. | |
| | (b) Grading, measuring, mixing, transporting, depositing, spreading, levelling and compacting. | |
| | (c) Making of all joints. | |
| | (d) In the case of lean concrete sub-base, all testing and formwork. | |
| | (e) Spillage and slopes at edges. | |
| | (f) Edge support. | |
| V. | Rate for bituminous roadbase shall further include for : - | Rates for bituminous roadbase |
| | (a) Trail areas. | |
| | (b) Grading, measuring, mixing, transporting, depositing, spreading, levelling and compacting. | |
| | (c) Making of all joints. | |
| | (d) Spillage and slopes at edges. | |
| | (e) Edge support. | |
| | (f) Sealing surfaces, priming and tack coats. | |
| VI. | The rates for bituminous flexible surfacing shall further include for : - | Rates for bituminous flexible surfacing |
| | (a) Preparation and cleaning of surface to receive bituminous materials. | |
| | (b) Grading, measuring, mixing, transporting, depositing, spreading, levelling and compacting. | |
| | (c) Cutting back and making of joints including applying bituminous priming coats. | |
| | (d) Maintenance of surface and cleaning or removal and replacement of contaminated layers. | |
| | (e) Spillage and slopes at edges. | |
| | (f) Making good up to curbs and around manholes and gully covers and frames and up to existing services and around expansion joints. | |
| | (g) Making good up to existing flexible surfacing. | |
| | (h) Sealing surfaces, priming and tack coats. | |

SPECIAL CONDITIONS (CONT'D)

Rates for cold milling of wearing course

- VII. The rates for cold milling of wearing course shall further include for : -
- (a) Removal of all material arising.
 - (b) Preparation and brushing of surface.
 - (c) Multiple milling to the depth, profile shape, fall and the texture surface required.
 - (d) Making good up to curbs and around manholes and gully covers and frames and up to existing services and around expansion joints.
 - (e) Making good up to existing flexible surfacing.
 - (f) Loosing, breaking of milled particles.
 - (g) Cleaning milled surface by mechanical vacuum road sweeper.

Rates for stone mastic asphalt surface

- VIII. The rates for stone mastic asphalt surface shall further include for : -
- (a) Preparation and cleaning of surface to receive stone mastic asphalt materials.
 - (b) Grading, measuring, mixing, transporting, depositing, spreading, levelling and compacting.
 - (c) Cutting back and making of joints including applying bituminous priming coats.
 - (d) Maintenance of surface and cleaning or removal and replacement of contaminated layers.
 - (e) Spillage and slopes at edges.
 - (f) Making good up to curbs and around manholes and gully covers and frames and up to existing services and around expansion joints.
 - (g) Making good up to existing flexible surfacing.
 - (h) Sealing surfaces, priming and tack coats.

Rates for patching up potholes with bituminous material

- IX. The rates for patching up potholes with bituminous material shall further include for : -
- (a) Potholes of any thickness.
 - (b) Removal of debris and loose material from potholes.
 - (c) Drying out water in potholes.
 - (d) Preparation of surface and applying bituminous priming coat.
 - (e) Placing and compacting bituminous material marrying in with existing surfaces.

Rates for patching up potholes with instant filling material

- X. The rates for patching up potholes with instant filling material shall further include for : -
- (a) Potholes of any thickness.
 - (b) Removal of debris and loose material from potholes.
 - (c) Drying out water in potholes.
 - (d) Placing and compacting instant hole filling material marrying in with existing surfaces.

SPECIAL CONDITIONS (CONT'D)

XI.	The rates of concrete carriageway shall further include for : -	Rates for concrete carriageway
(a)	Trial mixes.	
(b)	Waterproofing membrane underlays.	
(c)	Formwork and trimming bars.	
(d)	Spreading, compacting and finishing the concrete.	
(e)	In the case of rapid hardening concrete, providing and mixing approved concrete admixture for early strength or rapid hardening cement.	
(f)	Surface texturing, curing and protection.	
(g)	Forming channels as an integral part of the slab.	
(h)	Forming recesses, openings and bays for manholes, gullies and road studs.	
(i)	Forming surfaces within vertical and horizontal tolerances and surface regularity.	
(j)	Restrictions on the use of pavement courses by construction traffic.	
(k)	Making good up to existing.	
(l)	Forming expansion, longitudinal and contraction joints including all necessary formwork.	
XII.	The rates for steel fabric reinforcement shall include for : -	Rates for steel fabric reinforcement
(a)	Extra fabric reinforcement at laps.	
(b)	All requirements of sampling and testing.	
(c)	Cleaning, cutting to size, bending, fixing and securely supporting in the required position.	
(d)	Plastic cover spacers, spacer blocks, steel spacer rods, steel chairs and annealed iron tying wire or tack welding.	
XIII.	The rates for longitudinal, expansion and contraction joints shall include for : -	Rates for longitudinal, expansion and contraction
(a)	Removal of dust and debris.	
(b)	Provision of bond breaker or backing strips.	
(c)	Masking tape to sides of groove.	
(d)	Application of primer to sides of sealing grooves.	
(e)	Joint assemblies complete including, as appropriate, groove forming strip, tie bars with PVC sleeves, crack inducers, dowel bars, dowel sheaths, dowel bar cradles, joint filler and joint sealant.	
(f)	Removal of groove forming strip at movement joints after concrete has set.	

SPECIAL CONDITIONS (CONT'D)

- | | |
|--|--|
| Rates for run-in | <p>XIV. The rate for run-in shall further include for : -</p> <ul style="list-style-type: none"> (a) Cutting pavement by saw cut, excavating and clearing away or filling and compacting excavated materials. (b) Taking up and clearing away from Site or setting aside for re-lay existing curbs. (c) Breaking up and clearing away from Site existing concrete bedding for curbs. (d) Preparation of formation and compacting base. (e) Laying and compacting of 150 mm granular sub-base. (f) Concrete pavement up to 200 mm thick and finishing surface. (g) Supplying and laying steel fabric reinforcement. (h) Supplying and laying additional/replacement drop curbs including concrete bedding as required. |
| Rates for curbs, precast concrete footway edgings, etc. | <p>XV. The rates for granite or precast concrete curbs, precast concrete footway edgings, etc. shall include for : -</p> <ul style="list-style-type: none"> (a) Excavating in any materials, ramming bottom, back filling and removal surplus materials from Site. (b) Concrete bedding, backing and foundation for curbs or edgings. (c) Formwork. (d) Reinforcement. (e) Keying of surface and tack coat. (f) Finishing, protecting and curing. (g) Making and sealing joints. (h) Dressing of curbs as required. |
| Rates for concrete footways | <p>XVI. The rates for concrete footways shall include for : -</p> <ul style="list-style-type: none"> (a) Trial mixes. (b) Waterproofing membrane underlays. (c) Formwork and trimming bars. (d) Spreading, compacting and finishing the concrete. (e) In the case of rapid hardening concrete, providing and mixing approved concrete admixture for early strength or rapid hardening cement. (f) Surface texturing, curing and protection. (g) Spillage and slopes at sides. (h) Forming channels as an integral part of the slab. (i) Forming recesses, openings and bays for manholes, gullies and road studs. (j) Forming surfaces within vertical and horizontal tolerances and surface regularity. |

SPECIAL CONDITIONS (CONT'D)

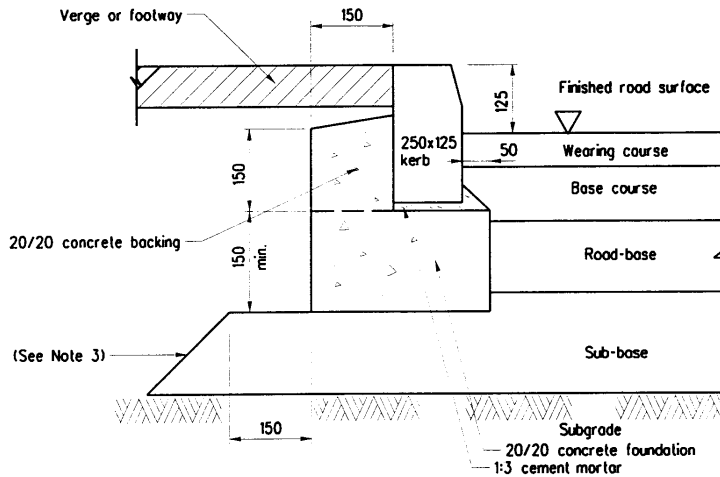
XVI.	(k)	Forming expansion, longitudinal and contraction joints including all necessary formwork.	Rates for concrete footways (cont'd)
	(l)	Restrictions on the use of pavement courses by construction traffic.	
	(m)	Making good up to existing.	
XVII.		The rates for paving slabs and paving blocks shall include for : -	Rates for paving slab and paving block
	(a)	Excavation to reduced level or filling to make up levels, compacting bottom properly to receive granular sub-base.	
	(b)	Grading, measuring, mixing, transporting, depositing, spreading, levelling and compacting granular sub-base.	
	(c)	Sand filling, sand bedding, granular sub-base, mortar bedding and the like.	
	(d)	Cutting and making good at boundaries, manholes and the like.	
	(e)	Laying at any designated pattern or design as specified by the Maintenance Surveyor using multi-coloured paving slabs and paving blocks as required.	
	(f)	Use of recycled aggregate as specified in the G.S. Items 6.42 (xiii) and 8.22 for designed concrete mixes and prescribed concrete mixes respectively, when required.	
XVIII.		G.S. clauses for Roadwork can be found in the External Work Section of the General Specification for Building.	G.S. clauses

Item	ROAD, CARPARKS AND PAVED AREAS				Item	
	SUB-BASE					
	<i>Per cubic metre</i>					
12001	Granular sub-base.....			A \$ 131.00	12001	
12002	Lean concrete sub-base.....			523.40	12002	
	ROAD BASE					
	<i>Per cubic metre</i>					
12003	Bituminous road base.....			572.00	12003	
	FLEXIBLE SURFACING					
	Supply, lay and roll with roller for the following bituminous surfacing (consolidated thickness stated) : -					
	<i>Per square metre</i>					
		Nominal aggregate size (mm)				
		37.5	28	20	10	
		A	B	C	D	
		\$	\$	\$	\$	
12004	55 mm thick bituminous base course.....	46.30	-	-	-	12004
12005	Extra over Item 12004 for each 5 mm thickness or part thereof in excess of 55 mm.....	3.60	-	-	-	12005
12006	55 mm thick bituminous base course.....	-	49.20	-	-	12006
12007	Extra over Item 12006 for each 5 mm thickness or part thereof in excess of 55 mm.....	-	4.50	-	-	12007
12008	40 mm thick bituminous wearing course.....	-	-	36.60	-	12008
12009	Extra over Item 12008 for each 5 mm thickness or part thereof in excess of 40 mm.....	-	-	4.60	-	12009
12010	30 mm thick bituminous wearing course.....	-	-	-	27.60	12010
12011	Extra over Item 12010 for each 5 mm thickness or part thereof in excess of 30 mm.....	-	-	-	4.70	12011
	<i>Per square metre</i>					
12012	40 mm thick Stone mastic asphalt surfaces.....				A \$ 55.80	12012
12013	Extra over Item 12012 for each 5 mm thickness or part thereof in excess of 40 mm.....				7.00	12013
	COLD MILLING WORK					
	<i>Per square metre</i>					
12014	Cold mill 25 mm thick wearing course with slaving machine and remove from Site all materials arising.....				7.20	12014
12015	Extra over Item 12014 for each 25 mm thickness or part thereof in excess of 25 mm.....				6.50	12015

Item	ROAD, CARPARKS AND PAVED AREAS (CONT'D)							Item																																
	PATCHING UP POTHOLES																																							
	(Note : - The following two items shall only be measured when individual potholes n.e. 2.0 m ² each are repaired.)																																							
	<i>Each</i>																																							
	<table border="1"> <thead> <tr> <th colspan="4">Pothole size (m²)</th> </tr> <tr> <th>n.e. 0.2</th> <th>0.2 - 0.5</th> <th>0.5 - 1.0</th> <th>1.0 - 2.0</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>							Pothole size (m ²)				n.e. 0.2	0.2 - 0.5	0.5 - 1.0	1.0 - 2.0	A	B	C	D	\$	\$	\$	\$																	
Pothole size (m ²)																																								
n.e. 0.2	0.2 - 0.5	0.5 - 1.0	1.0 - 2.0																																					
A	B	C	D																																					
\$	\$	\$	\$																																					
12016	Patch up pot-hole with bituminous material.....	20.30	29.70	45.90	91.70		12016																																	
12017	Patch up pot-hole with instant hole filling material.....	78.30	204.80	410.60	821.30		12017																																	
	CONCRETE CARRIAGEWAY																																							
	<i>Per cubic metre</i>																																							
	<table border="1"> <thead> <tr> <th>A</th> </tr> <tr> <th>\$</th> </tr> </thead> </table>							A	\$																															
A																																								
\$																																								
12018	Concrete Grade 40S, Grade 40D or 40MPa carriageway.....				629.10		12018																																	
12019	Extra over Item 12018 for rapid hardened concrete.....				189.70		12019																																	
	STEEL FABRIC REINFORCEMENT																																							
	<i>Per square metre</i>																																							
	<table border="1"> <thead> <tr> <th colspan="5">BS 4483 or SS-32 Reference number</th> </tr> <tr> <th>C785</th> <th>C636</th> <th>C503</th> <th>C385</th> <th>C283</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>							BS 4483 or SS-32 Reference number					C785	C636	C503	C385	C283	A	B	C	D	E	\$	\$	\$	\$	\$													
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C785	C636	C503	C385	C283																																				
A	B	C	D	E																																				
\$	\$	\$	\$	\$																																				
12020	Supply and lay steel fabric reinforcement.....	46.80	38.80	30.20	23.80	18.20	12020																																	
	RUN-IN																																							
	<i>Each</i>																																							
	<table border="1"> <thead> <tr> <th colspan="7">Run-in size (m²)</th> </tr> <tr> <th>n.e. 10</th> <th>10 - 15</th> <th>15 - 20</th> <th>20 - 25</th> <th>25 - 30</th> <th>30 - 35</th> <th>35 - 40</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>							Run-in size (m ²)							n.e. 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	A	B	C	D	E	F	G	\$	\$	\$	\$	\$	\$	\$					
Run-in size (m ²)																																								
n.e. 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40																																		
A	B	C	D	E	F	G																																		
\$	\$	\$	\$	\$	\$	\$																																		
12021	Concrete run-in.....	2,180.70	3,470.50	4,501.30	5,481.20	6,526.50	7,491.90	8,551.80	12021																															
	<i>Per square metre</i>																																							
	<table border="1"> <thead> <tr> <th>A</th> </tr> <tr> <th>\$</th> </tr> </thead> </table>							A	\$																															
A																																								
\$																																								
12022	Ditto but size exceeding 40 m ²						225.10	12022																																
	REPAIRS TO EXISTING CONCRETE SURFACING																																							
	<i>Per linear metre</i>																																							
	<table border="1"> <thead> <tr> <th>Depth of grooves (mm)</th> <th>n.e. 15</th> <th>15 - 25</th> <th>n.e. 20</th> <th>20 - 25</th> <th>n.e. 20</th> <th>20 - 35</th> <th>n.e. 40</th> </tr> <tr> <th>Width of grooves (mm)</th> <th>n.e. 10</th> <th>n.e. 10</th> <th>10 - 15</th> <th>10 - 15</th> <th>15 - 20</th> <th>15 - 20</th> <th>20 - 25</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th></th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>							Depth of grooves (mm)	n.e. 15	15 - 25	n.e. 20	20 - 25	n.e. 20	20 - 35	n.e. 40	Width of grooves (mm)	n.e. 10	n.e. 10	10 - 15	10 - 15	15 - 20	15 - 20	20 - 25	A	B	C	D	E	F	G		\$	\$	\$	\$	\$	\$	\$	\$	
Depth of grooves (mm)	n.e. 15	15 - 25	n.e. 20	20 - 25	n.e. 20	20 - 35	n.e. 40																																	
Width of grooves (mm)	n.e. 10	n.e. 10	10 - 15	10 - 15	15 - 20	15 - 20	20 - 25																																	
A	B	C	D	E	F	G																																		
\$	\$	\$	\$	\$	\$	\$	\$																																	
12023	Saw cut groove in concrete carriageway for joint sealant.....	21.80	30.10	34.20	43.80	47.00	103.60	137.70	12023																															
	<i>Each</i>																																							
	<table border="1"> <thead> <tr> <th>Bar diameter (mm)</th> <th>12</th> <th>20</th> <th>25</th> </tr> <tr> <th>Embedded length (mm)</th> <th>200</th> <th>325</th> <th>325</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th></th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th></th> </tr> </thead> </table>							Bar diameter (mm)	12	20	25	Embedded length (mm)	200	325	325	A	B	C		\$	\$	\$																		
Bar diameter (mm)	12	20	25																																					
Embedded length (mm)	200	325	325																																					
A	B	C																																						
\$	\$	\$																																						
12024	Drill hole in edge of concrete carriageway for dowel bar and PVC sleeve.....				25.00	48.50	60.70	12024																																

Item	ROAD, CARPARKS AND PAVED AREAS (CONT'D)						Item				
	LONGITUDINAL, EXPANSION AND CONTRACTION JOINTS TO EXISTING CONCRETE SURFACING										
					Thickness of slab (mm)						
					n.e. 150	150-310					
					A	B					
					\$	\$					
	<i>Per linear metre</i>										
12025	Form expansion joint through full thickness of slab.....				197.00	272.20	12025				
12026	Form longitudinal joint ditto.....				104.00	113.80	12026				
12027	Form contraction joint ditto.....				198.50	275.10	12027				
	FOOTWAYS, CYCLE TRACKS, PAVING AND CURBING										
						A					
						\$					
	<i>Per linear metre</i>										
12028	Granite curb n.e. 200 mm high including backing and foundations.....					144.00	12028				
12029	Extra over Item 12028 for each additional 50 mm high or part thereof in excess 200 mm high.....					7.10	12029				
12030	Extra over Items 12028 to 12029 inclusive for curb n.e. 15.00 m radius.....					41.10	12030				
12031	Granite quadrant n.e. 200 mm high including backing and foundations.....					233.30	12031				
12032	Extra over Item 12031 for each additional 50 mm high or part thereof in excess 200 mm.....					46.10	12032				
12033	Lay only granite curbs/quadrants of any size including backing and foundations.....					104.10	12033				
12034	Ditto but n.e. 15.00 m radius.....					118.10	12034				
					Concrete curb type						
					K1	K2	K3	K5 or K9	K6 or K8	K7	
					A	B	C	D	E	F	
					\$	\$	\$	\$	\$	\$	
	<i>Per linear metre</i>										
12035	Precast concrete curb including backing and foundations.....				117.30	126.50	121.30	137.00	131.70	116.10	12035
12036	Extra over Item 12035 for curb n.e. 15.00 m radius.....				40.60	40.60	37.40	46.10	43.90	34.20	12036
12037	Lay only precast concrete curb including backing and foundations.....				99.90	99.90	99.90	99.90	99.90	99.90	12037
12038	Ditto but n.e. 15.00 m radius.....				114.40	114.40	114.40	114.40	114.40	114.40	12038
					Edging type						
					E1	E2	E3				
					A	B	C				
					\$	\$	\$				
	<i>Per linear metre</i>										
12039	Precast concrete footpath edging including backing and foundations.....				118.80	122.00	116.20				12039
										A	
										\$	
	<i>Per linear metre</i>										
12040	Precast concrete quadrant to suit curbs and edgings of any size and radius including backing and foundations.....									156.80	12040

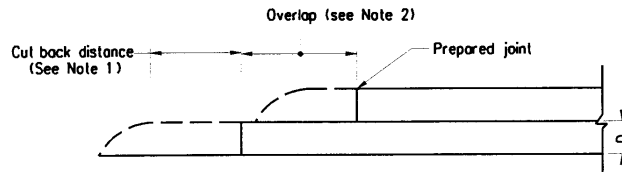
Item	FOOTWAYS, CYCLE TRACKS, PAVING AND CURBING (CONT'D)		Item						
	<i>Per cubic metre</i>	A \$							
12041	Concrete Grade 30S, Grade 30D or 30MPa footway.....	569.00	12041						
12042	Concrete Grade 30S, Grade 30D or 30MPa margin or edging.....	1,013.80	12042						
12043	Ditto flat channel.....	1,038.70	12043						
12044	Ditto dish channel.....	1,080.80	12044						
12045	Extra over Items 12041 to 12044 inclusive for concrete footpath with rapid hardening concrete.....	242.50	12045						
		<table border="1"> <thead> <tr> <th colspan="2">Thickness (mm)</th> </tr> <tr> <th>60</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>A \$</td> <td>B \$</td> </tr> </tbody> </table>		Thickness (mm)		60	80	A \$	B \$
Thickness (mm)									
60	80								
A \$	B \$								
	<i>Per square metre</i>								
12046	Paving in precast concrete paving slabs on and including 50 mm thick sand bedding.....	138.40	12046						
12047	Paving in precast concrete paving blocks ditto.....	173.80	12047						
	SUNDRIES								
	<i>Per square metre</i>	A \$							
12048	Take up and clear away from Site existing paving slabs/blocks and sand bedding.....	32.50	12048						
12049	Take up, set aside for re-use and re-lay existing paving slabs/blocks and sand bedding including additional sand filling and bedding.....	59.90	12049						
	<i>Per linear metre</i>								
12050	Take up and clear away from Site existing granite curbs, in any size and any radius, and associated concrete bedding, backing and foundation.....	32.30	12050						
12051	Take up, set aside for re-use and re-lay existing granite curbs, ditto.....	153.90	12051						
12052	Take up and clear away from Site existing precast concrete curbs, ditto.....	32.30	12052						
12053	Take up, set aside for re-use and re-lay existing precast concrete curbs, ditto.....	151.40	12053						
	UTILITY CONNECTION AND PAVEMENT WORKS								
	Add to either of Items 12001 to 12053 inclusive for works carried out in connection with Utility Connection And Pavement Works.....	15%							



PAVEMENT CROSS-SECTION

Layers	Material	Thickness	
Wearing course	Bituminous	40	Total thickness to be designed to the Pavement Design Manual and min. - 170
Base course		65	
Road base		min.65	
Sub-base	Granular	Designed to the Pavement Design Manual	

THICKNESS OF PAVEMENT LAYERS



JOINTS IN BITUMINOUS MATERIALS LAYERS

Notes:

1. Minimum cut back distance = $2 \times D$ or 100 whichever is greater.
2. Minimum overlap between adjoining layers:
150 for joints longitudinal to carriageway.
500 for joints transverse to carriageway.
3. Where the crossfall of road surface is towards the kerb the sub-base should be carried through to the edge of the embankment or to the filter drain.
4. Refer to the general specification for the nominal sizes of materials.
5. Kerb units shall be laid on 1:3 cement mortar not less than 10 mm thick and not more than 40 mm thick.
6. All dimensions are in millimetres.

Former Drg. No. H1016/A
with general revision

June 94

REF. REVISION SIGNATURE DATE

TYPICAL BITUMINOUS
PAVEMENT CONSTRUCTION

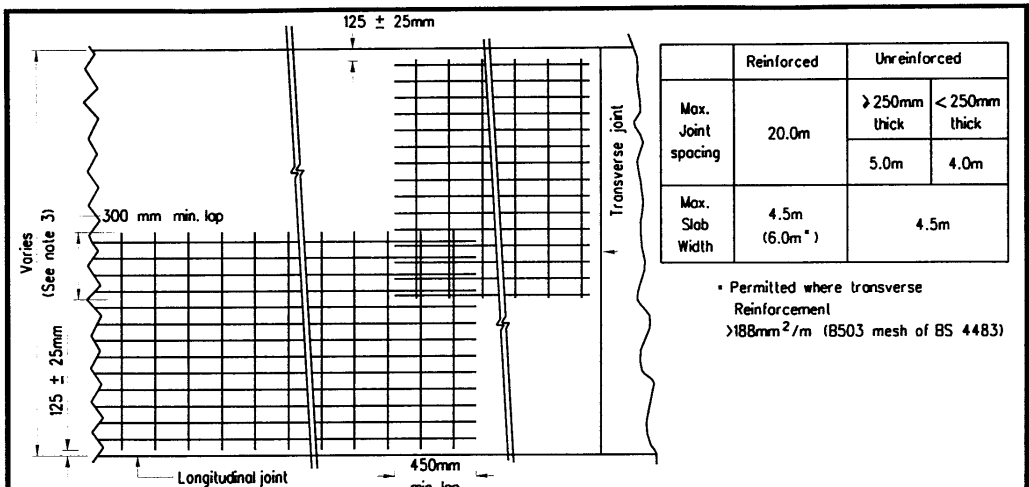
HIGHWAYS DEPARTMENT

REFERENCE
Pavement Design Manual

DRAWING No. CAD

SCALE
Diagrammatic

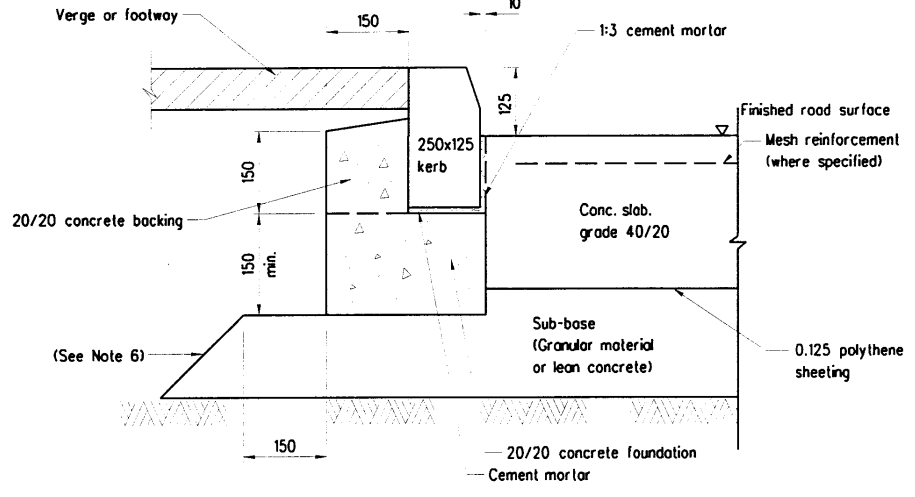
H 1101



Max. Joint spacing	Reinforced	Unreinforced	
	20.0m	> 250mm thick 5.0m	< 250mm thick 4.0m
Max. Slab Width	4.5m (6.0m*)	4.5m	

* Permitted where transverse Reinforcement > $188\text{mm}^2/\text{m}$ (B503 mesh of BS 4483)

ARRANGEMENT OF MESH REINFORCEMENT, JOINT SPACING AND SLAB WIDTH



Notes:

1. Dimensions are in millimetres.
2. Top cover to reinforcement should be $60 \pm 10\text{mm}$.
3. Maximum width between longitudinal joints shall be 4500mm unless the reinforcement in the transverse direction of the slab is greater than $188\text{mm}^2/\text{m}$ when the maximum width of slab may be extended to 6000mm .
4. For unreinforced slabs, $\frac{\text{Length}}{\text{Width}} > 2.0$
5. Refer to Drg. No. H1105 - H1109 for details of transverse and longitudinal joints.

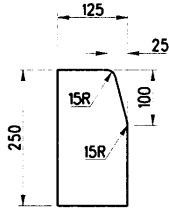
6. Where the crossfall of road surface is towards the kerb the sub-base should be carried through to the edge of the embankment or to the filter drain.
7. Kerb units shall be laid on cement mortar at least 10mm thick and not more than 40mm thick.

A	Note 4 revised	Jan 95
	Former Drg. No. H1002A & H1016A with general revision	June 94
REF.	REVISION	SIGNATURE DATE

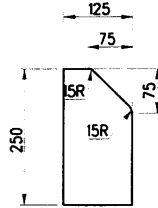
TYPICAL CONCRETE PAVEMENT CONSTRUCTION

HIGHWAYS DEPARTMENT		
REFERENCE	DRAWING No.	CAD
SCALE	H 1102A	
Diagrammatic		

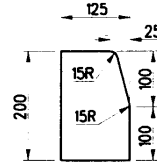
STRAIGHT KERBS



TYPE K1

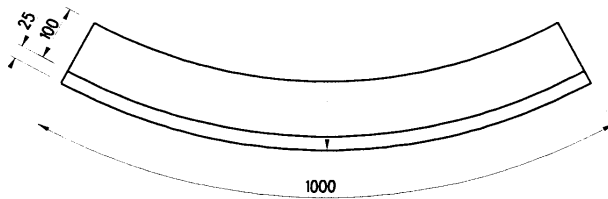


TYPE K2



TYPE K3

RADIUS KERBS



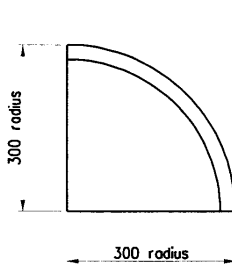
PLAN VIEW

External radius kerbs shall have a radius (R) of 1,3,6 or 9 metres and shall be of kerb type K1 section.

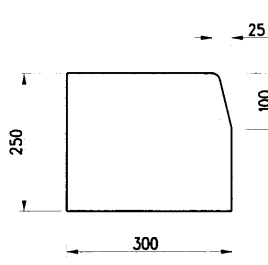
Notes:

1. The nominal length of a kerb unit shall be 1000 mm and an edging unit 750.
2. Concrete shall be grade 30/20.
3. Type K1 kerbs should be used in urban areas and where a footway is adjacent to the carriageway.
4. Type K2 kerbs should be used in rural areas and on high speed roads where there is no adjoining footway.
5. Type K3 kerbs should be used only on bridge decks.
6. Precast concrete kerbs, edgings and quadrants shall comply with B.S. 7263: Part 1 except that the requirement for testing of water absorption shall not be applied.
7. All dimensions are in millimetres.

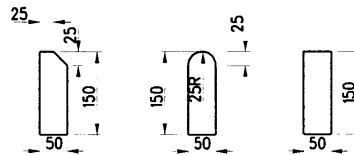
QUADRANTS



PLAN VIEW



END VIEW



Type E1 Type E2 Type E3
FOOTPATH EDGINGS

Former Drg. No. H1015/1
with general revision

June 94

REF.	REVISION	SIGNATURE	DATE

PRECAST CONCRETE
KERBS (SHEET 1 OF 2)

HIGHWAYS DEPARTMENT

REFERENCE

DRAWING No.

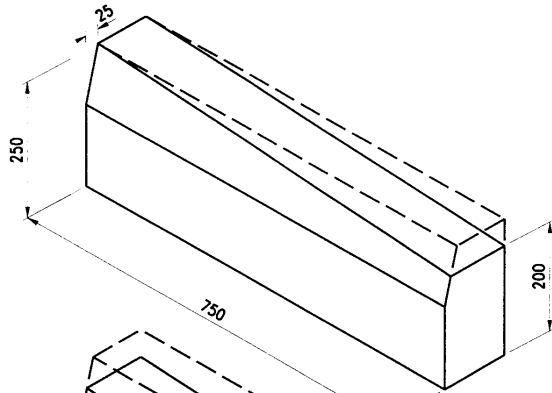
CAD

SCALE

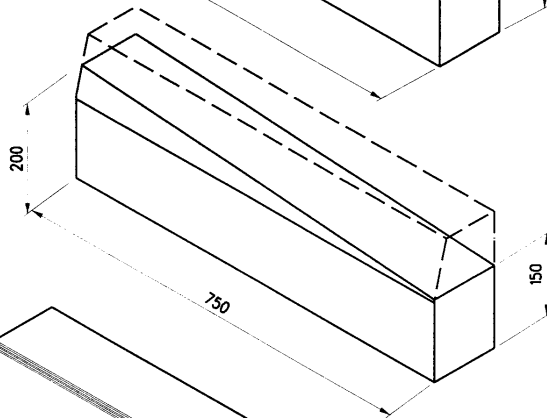
1 : 10

H 1118

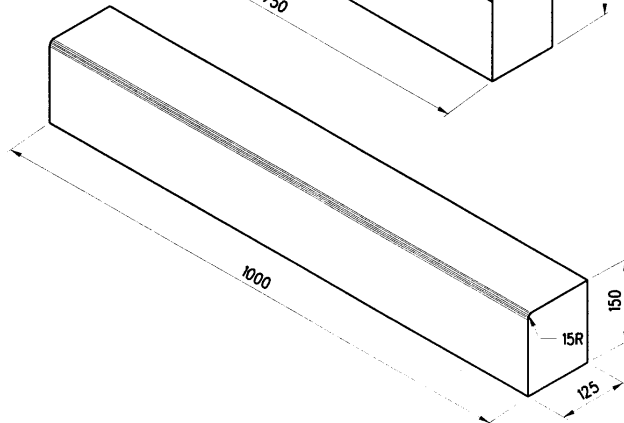
DOUBLE DROP CROSSING KERBS



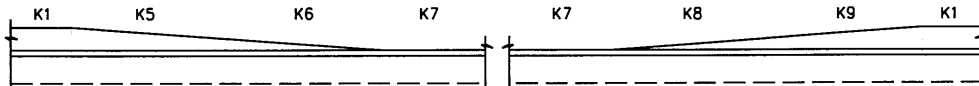
Left hand drop kerb
Type K5
(Right Hand - K9)



Left hand drop kerb
Type K6
(Right Hand - K8)



Centre drop kerb
Type K7



Former Drg. No. H1015/2
with general revision

June 94

REF.	REVISION	SIGNATURE	DATE
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PRECAST CONCRETE
KERBS
(SHEET 2 OF 2)

HIGHWAYS DEPARTMENT

REFERENCE

DRAWING No.

CAD

SCALE

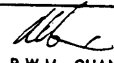
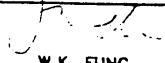
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H 1119

RANGE OF GRADING	
B. S. SIEVE SIZE	PERCENTAGE BY WEIGHT PASSING
75 mm	100
37.5 mm	85 ~ 100
20 mm	60 ~ 85
10 mm	40 ~ 70
5 mm	25 ~ 45
600 μ m	8 ~ 22
75 μ m	0 ~ 10

- a. GRANULAR SUB-BASE MATERIAL SHALL COMPRISE CRUSHED ROCK OR CRUSHED CONCRETE. THE MATERIAL SHALL BE WELL-GRADED AND LIE WITHIN THE ABOVE GRADING LIMITS. THE PARTICLE SIZE SHALL BE DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF BS 1377.
- b. THE MATERIAL PASSING THE B.S. SIEVE 425 μ m WHEN TESTED IN ACCORDANCE WITH BS 1377 SHALL BE NON-PLASTIC.
- c. THE MATERIAL SHALL BE LAID AND COMPACTED TO THE REQUIREMENTS OF PARTICULAR SPECIFICATIONS FOR ROADWORKS.

TABLE 5: GRANULAR SUB-BASE MATERIAL

title TYPICAL DETAIL OF EXTERNAL DRIVEWAY & CARPARK GROUND SLAB ON GRADE (5 OF 5)	checked CSE/3	 R.W.M. CHAN	date Feb.'98	drawing no. SD/025	scale N.T.S.
	approved AD(SE)	 W.K. FUNG	date Feb.'98	STRU. ENGG. BRANCH ARCH. SERVICES DEPT.	

Section 13

PLUMBING

PLUMBING

SPECIAL CONDITIONS

Measurements of excavations, chases, holes and other subsidiary work	I. All trench excavation shall be measured separately and paid for at the appropriate rates under the Excavation Section. All chases in and holes through existing walls, ceilings, etc. for tubing and pipes, other than mortices or holes for brackets, shall be measured and paid for at the appropriate rates under the Concrete Work Section, Brickwork and Blockwork Section or other applicable Work Sections.
Measurements generally	II. Pipes shall generally be measured the mean length over all bends, branches, junctions and the like unless otherwise stated. Pipe sizes are referred to nominal sizes. Gutters shall be measured the net length as fixed. No allowance for laps shall be measured. Fittings shall be identified by the largest diameter. Insulation to pipe shall be measured the diameter of the pipes to be insulated. Insulation to cylinder shall be measured the net area cover. No deduction shall be made for opening or void not exceeding 0.50 m ² .
Measurements of sheet lead work	III. Sheet lead shall be measured the net weight as laid or fixed. The weight of tacks, wedges and the like shall be added in.
Measurements of fittings	IV. Fittings shall be measured as "Extra over" the gutter, tubing or pipe run. Taper pipes, taper bends, tees and junctions with diminishing branches shall be measured as the size of the largest end.
Rates for lead work	V. Rates for lead work shall include for all dressing, bossing up, forming angles and inter-sections, bossing ends and the like to rolls and welts.
Rates generally	VI. The rates shall generally include for : - (a) Working at any height and any position. (b) Working internally or externally. (c) All short lengths, cutting and waste. (d) All joints in the running length, capillary joint or compression joint for copper pipe, and joints to all bends, branches, tees and other pipe fittings and heads, roof and floor outlets and the like. (e) Provision of all pipe sleeves of any kind of materials but excluding fire collars through walls or slabs. (f) Provision of stainless steel or other brackets and clips as G.S. Item 19.05. (g) All jointing materials including gaskets, bolts and nuts for flanged pipes and any other special jointing materials recommended by the manufacturer. (h) Fixing in any position to floors, walls and soffits including fixing in chases, ducts, false ceilings and similar positions. (i) Protection of underground and concealed metal pipes with "Denso" tape or other materials as G.S. Item 19.69. (j) Connection to existing plumbing system.

SPECIAL CONDITIONS (CONT'D)

VI.	<ul style="list-style-type: none"> (k) All pipework fittings (e.g. bends, elbows, branches, tees, caps and the like) in respect of pipework not exceeding 40 mm diameter. (l) Provision of connection point for the purposes of connection of equipotential bonding connection as required by the I.E.E. Regulations. (m) Testing as G.S. Item 19.72. 	Rates generally (cont'd)
VII.	Rates for P.V.C. and U.P.V.C. tubing and pipes, galvanized mild steel pipes, UPVC lined galvanized mild steel pipes, stainless steel pipes and copper pipes shall further include for made bends.	Rates include for made bends
VIII.	<p>Rates for fittings on gutters, tubing and pipes of all types shall include for : -</p> <ul style="list-style-type: none"> (a) Additional cutting and waste on gutter, tubing or pipe and all extra joints. (b) In the case of pipe bends and gutter angles, bends and gutter angles of any angle. (c) In the case of tees, crosses and single or double junctions, square or oblique connections with straight or curved offsets and all ends either equal or reducing. 	Rates for fittings
IX.	<p>The rates for "Take up or take down and clear away" or "Take up or take down and set aside for re-use" gutters, tubing or pipes shall further include for : -</p> <ul style="list-style-type: none"> (a) All fittings including brackets or hangers. (b) Cutting into existing gutter, tubing or pipe in position. (c) Preparing remaining ends to receive joint with new pipe if required. (d) Plugging ends with plugs or caps as required. (e) Making good surfaces disturbed. (f) Arranging for temporary plumbing system and diversion, if required. 	Rates for "Take up or take down, etc." gutters, tubing or pipes
X.	<p>The rates for "Fixed only or lay only" gutters, tubing or pipes shall further include for : -</p> <ul style="list-style-type: none"> (a) All fitting including brackets, bolts, nuts and washers. (b) Cutting mortices and grouting in cement mortar. (c) Preparing ends to receive joints with pipes. (d) Making good surfaces disturbed. 	Rates for "Fix only or lay only" gutters, tubing or pipes
XI.	<p>The rates for cut into pipes or tubing in position shall further include for : -</p> <ul style="list-style-type: none"> (a) Temporary suspension of the water supplies. (b) Arranging for temporary plumbing system and diversion, if required. (c) Making good surfaces disturbed. 	Rates for cut into pipes or tubing in position
XII.	<p>The rates for insulation to tubing and cylinders shall include for : -</p> <ul style="list-style-type: none"> (a) All cutting, waste and fitting. 	Rates for insulation

SPECIAL CONDITIONS (CONT'D)

- | | |
|---|--|
| Rates for insulation (cont'd) | XII. (b) Fixing bands. |
| Rates for cisterns, tanks and cylinders | <p>XIII. The rates for cisterns, tanks and cylinders shall include for : -</p> <ul style="list-style-type: none"> (a) Supply and installation in accordance with the manufacturer's instructions. (b) Water tank suitable for storage of fresh water, portable water and/or flushing water. (c) Water tank in any colour, rectangular or square shape. (d) Supply and fix nozzles, air vent, electrode seat and cover, internal ladder, external ladder, galvanized mild steel base supporting frames, etc. and all necessary accessories, fittings and the like recommended by the manufacturer. (e) Providing and fixing with anchor bolts. (f) Cutting mortice, sinking or drilling in concrete, brick, stone or other surfaces as required. (g) Grouting into new or existing mortice or holes. (h) Making good disturbed surfaces. (i) Providing test certificate, operation manuals and manufacturer's guarantee. (j) Masking, protecting and cleaning. (k) Testing and commissioning. (l) Submission of catalogues, technical literature, operation manuals and manufacturer's guarantee. |
| Rates for pressure vessels | <p>XIV. The rates for pressure vessels shall further include for : -</p> <ul style="list-style-type: none"> (a) Supply and installation in accordance with the manufacturer's instructions. (b) Providing and fixing all accessories, fittings and the like as recommended by the manufacturer. (c) Testing the supply and installation works as required. (d) Providing test certificate, operation manuals and manufacturer's guarantee. |
| Rates for sanitary fittings and parts of sanitary fittings | <p>XV. The rates for sanitary fittings shall further include for : -</p> <ul style="list-style-type: none"> (a) Supply and installation in accordance with the manufacturer's recommendations. (b) Providing and fixing all accessories, fittings and the like as recommended by the manufacturer. (c) Providing all necessary jointing compound, mortar, lead plugs and other accessory material including cutting and pinning or plugging and screwing brackets. (d) Applying white or coloured silicone sealant after de-greasing and drying of fittings. (e) Providing and making all necessary connections to water supply services, overflow, wastes and ventilating pipes. (f) Providing temporary sealing off of water supply services, wastes and ventilating pipes in case when the installation work cannot be completed on time. (g) Providing and maintaining protective coverings during the progress of work and cleaning off when required and upon completion of works. |

Item	LEAD WORK					Item
	Milled lead and all labours including provision of all nails, screws, holdfasts, wedges, tacks and solder in : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per kg</i>	A \$	B \$	C \$	D \$	
13001	Flats (including rolls), gutters (including cesspools), cornices, dormers, flashings, hips, ridges, linings to sinks, cisterns, safes, drawers and the like	56.40	6.60	8.40	15.30	13001
	<i>Each</i>					
13002	1.80 mm thick sheet lead sleeve, 150 mm high, with top secured to pipe n.e. 50 mm bore using galvanized screw clip and pointed with mastic, and bottom dressed over lead collar or pipe sleeve (measured separately)	61.90	9.30	13.50	41.30	13002
13003	Ditto but to pipe exceeding 50 mm bore and n.e. 100 mm bore ditto	99.70	11.10	16.20	59.50	13003
13004	Ditto but to pipe exceeding 100 mm bore and n.e. 150 mm bore ditto	138.20	13.00	18.90	80.00	13004
13005	1.80 mm thick sheet lead slate, size 450 x 450 mm, perforated for and with outlet collar 75 mm deep soldered on and dressed down into top of pipe of any bore	278.60	10.50	15.30	109.90	13005
13006	Ditto but with upstand collar 150 mm high soldered on and dressed up around pipe of any bore	314.30	18.60	27.00	113.50	13006
	<i>Per linear metre</i>				A \$	
13007	Copper nail to existing sheet lead at approximately 75 mm centres				29.20	13007
13008	Wiped soldered seam or angle (approximately 2 kg solder per linear metre) to existing sheet including cutting out defective joint if required				231.80	13008
	<i>Each</i>					
13009	Clean and cut out as necessary and solder small holes n.e. 0.001 m ² in sheet lead				54.80	13009
13010	Run with lead to mortice in concrete, brick, stone or other surface around end of baluster, bolt and the like n.e. 0.0001 m ³ (net size of end of baluster, bolt and the like measured)				89.10	13010

Item	CAST IRON RAINWATER GUTTERS AND FITTINGS	Half round section				Ogee section		Item
		Internal diameter (mm)				Internal diameter (mm)		
		75	100	125	150	100	125	
		A	B	C	D	E	F	
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	\$	
13011	Gutter fixed on brackets at 1.00 m (maximum) centres	71.90	89.80	104.90	147.30	90.50	107.70	13011
	Extra over gutter for : -							
	<i>Each</i>							
13012	Stop end	27.40	30.30	38.40	43.00	37.20	45.20	13012
13013	Internal or external angle	36.20	43.90	57.90	73.30	57.50	73.90	13013
13014	Nozzle outlet	60.00	65.10	88.30	117.70	77.30	102.90	13014
13015	Combined stop end nozzle outlet	75.10	84.70	114.60	143.70	112.10	144.50	13015
	<i>Per linear metre</i>							
13016	Take down and clear away gutter complete with all fittings and brackets	8.50	10.10	11.70	13.40	10.10	11.70	13016
13017	Take down and set aside for re-use ditto	9.90	11.90	13.80	15.90	11.90	13.80	13017
13018	Fix only gutter complete with all fittings and brackets at 1.00 m (maximum) centres	53.10	66.40	76.70	92.60	68.80	79.10	13018
	<i>Each</i>							
13019	Re-make existing joint including cleaning ends	22.30	26.80	33.20	40.40	33.20	40.40	13019

Item	CAST IRON RAINWATER PIPES AND FITTINGS	Pipe diameter (mm)				Item
		50	75	100	150	
		A	B	C	D	
	<i>Per linear metre</i>	\$	\$	\$	\$	
13020	Pipe fixed to floor, wall or soffits	71.10	89.80	99.60	177.30	13020
	<i>Each</i>					
13021	Extra over pipe for shoe	73.70	87.10	103.40	156.80	13021
13022	Ditto for bend	23.90	32.60	42.90	72.00	13022
13023	Ditto for single junction	33.80	48.60	58.10	107.30	13023
13024	Ditto for double junction	60.30	74.30	106.10	200.10	13024
13025	Add to either of Items 13022 to 13024 if fitted with bolted access door	23.60	25.90	28.20	31.30	13025
13026	Swan-neck of any projection	63.30	82.10	100.50	164.70	13026
13027	Roof outlet with square or circular, flat or domed grating	111.40	116.70	126.30	178.10	13027
13028	Rainwater head, flat or angular	45.80	47.70	51.00	57.70	13028
	<i>Per linear metre</i>					
13029	Take down and clear away pipe fixed to floor, wall or soffits	3.80	5.30	6.30	8.30	13029
13030	Take down and set aside for re-use pipe fixed to floor, wall or soffits	5.00	6.30	7.20	9.60	13030
13031	Fix only pipe to floor, wall or soffits	14.10	20.10	23.50	31.50	13031
	<i>Each</i>					
13032	Re-make existing joint including cleaning ends	32.60	43.00	53.20	73.90	13032
13033	Cut into and remove short length of pipe laid in position, and provide and joint in new single junction complete with loose collar if required	139.80	204.60	254.90	414.20	13033
13034	Ditto but new double junction ditto	277.30	315.60	350.20	516.70	13034

Item	CAST IRON SOIL, WASTE AND VENTILATION PIPES AND FITTINGS	Pipe diameter (mm)							Item	
		50	65	75	100	150	200	300		500
		A	B	C	D	E	F	G		H
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	\$	\$	\$	
13035	Pipe fixed to floor, wall or soffits	71.10	75.60	89.80	99.60	177.30	252.90	403.50	698.70	13035
	<i>Each</i>									
13036	Extra over pipe for loose socket	15.50	17.40	19.60	24.80	36.10	37.60	55.70	92.70	13036
13037	Ditto for large socket for and including joint to clayware pipe	-	-	-	45.70	63.10	84.70	119.30	200.00	13037
13038	Ditto for swan-neck of any projection	47.80	51.00	63.20	74.60	131.70	189.10	302.80	532.10	13038
13039	Ditto for plug to socket end	36.80	41.20	55.10	66.70	94.40	125.60	185.70	291.60	13039
13040	Ditto for cap to spigot end	36.90	53.90	62.70	69.80	99.90	150.20	195.20	307.40	13040
13041	Ditto for bend	23.90	27.80	32.60	42.90	72.00	90.90	130.30	208.80	13041
13042	Ditto for single junction	33.80	45.20	48.60	58.10	107.30	152.90	244.10	425.70	13042
13043	Ditto for double junction	60.30	63.10	74.30	106.10	200.10	274.40	416.80	679.30	13043
13044	Add to either of Items 13041 to 13043 if fitted with bolted access door	23.60	24.80	25.90	28.20	31.30	34.50	40.70	53.10	13044
	<i>Per linear metre</i>									
13045	Take down and clear away pipe fixed to floor, wall or soffits	3.80	4.70	5.30	6.30	8.30	10.40	14.30	21.70	13045
13046	Take down and set aside for re-use pipe fixed to floor, wall or soffits	5.00	5.70	6.30	7.20	9.60	12.00	16.80	26.40	13046
13047	Fix only pipe to floor, wall or soffits	14.10	18.40	20.10	23.50	31.50	37.40	48.50	64.70	13047
	<i>Each</i>									
13048	Cut or burn out existing joint, clean socket and spigot ends and re-make joint	62.40	72.90	81.70	100.90	127.60	159.80	224.90	372.80	13048
13049	Cut or burn out existing joint, remove cap or plug and clear away, clean spigot or socket end and joint new pipe to the same	66.90	77.00	85.60	104.10	141.20	178.20	252.50	400.90	13049
13050	Cut into and remove short length of pipe laid in position, and provide and joint in new single junction complete with loose collar if required	139.80	176.10	204.60	254.90	414.20	538.20	773.00	1,179.20	13050
13051	Ditto but new double junction ditto	277.30	265.00	315.60	350.20	516.70	692.20	1,028.30	1,634.10	13051

Item	FLANGED DUCTILE IRON PIPES AND FITTINGS											Item	
	Standard pipe and fittings with PN16 Class K9 - K12 : -	Pipe diameter (mm)											
		80	100	150	200	250	300	350	400	450	500	600	
		A	B	C	D	E	F	G	H	I	J	K	
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13052	Pipe laid in trench	212.80	214.60	272.10	335.50	509.60	709.00	803.40	907.30	1,097.70	1,415.40	1,788.40	13052
13053	Pipe fixed to floor, wall or soffits	233.00	236.10	297.50	364.50	543.90	748.40	848.80	958.90	1,161.10	1,490.60	1,897.20	13053
	<i>Each</i>												
13054	Extra over pipe for cover plate to flanged end	121.80	120.50	158.00	195.30	298.60	418.20	428.40	461.00	537.10	656.90	719.30	13054
13055	Ditto for flanged socket end	486.20	569.90	1,016.60	1,474.70	2,453.60	3,561.70	7,281.30	8,785.50	9,155.90	9,759.70	10,994.40	13055
13056	Ditto for flanged spigot end	288.10	505.50	650.90	730.00	1,071.20	1,216.20	1,852.10	2,238.40	3,064.60	3,325.50	3,373.20	13056
13057	Ditto for flanged connector	425.90	487.90	633.10	832.10	1,310.50	1,472.70	2,592.90	2,760.10	3,177.20	4,336.90	6,305.60	13057
13058	Ditto for bend	297.20	342.00	566.30	877.10	1,308.90	1,914.90	2,819.70	3,743.70	4,963.60	5,649.10	8,010.80	13058
13059	Ditto for tee	666.30	868.40	1,352.20	1,914.30	3,331.70	5,202.40	6,797.50	8,046.10	10,360.20	12,576.10	13,466.00	13059
13060	Ditto for cross	854.80	1,095.70	1,691.70	2,350.80	4,108.30	6,426.80	8,395.00	9,926.30	12,802.70	16,829.30	18,743.40	13060
	<i>Per linear metre</i>												
13061	Take up and clear away pipe laid in trench (trench excavation measured separately)	6.60	7.70	11.20	15.20	19.60	24.50	28.00	33.40	39.30	45.70	59.90	13061
13062	Take up and set aside for re-use pipe laid in trench (ditto)	8.00	9.30	12.30	14.90	17.30	19.50	21.60	23.60	25.50	27.30	30.90	13062
13063	Take down and clear away pipe fixed to floor, wall or soffits	7.70	9.00	12.90	17.20	22.00	27.20	31.00	36.60	42.80	49.50	64.20	13063
13064	Take down and set aside for re-use pipe fixed to floor, wall or soffits	9.60	11.30	14.70	17.90	20.70	23.30	26.00	28.20	30.50	32.90	37.10	13064
13065	Lay only pipe in trench	29.20	30.80	50.20	59.10	72.20	86.50	112.40	146.60	172.20	261.60	336.70	13065
13066	Fix only pipe to floor, wall or soffits	49.10	52.30	73.80	88.10	106.40	125.80	157.80	198.10	235.50	336.80	445.50	13066

Item	FLANGED DUCTILE IRON PIPES AND FITTINGS (CONT'D)											Item
Standard pipe and fittings with PN16 Class K9 - K12 : - (cont'd) Each 13067 Unbolt existing joint, remove gasket and clear away, clean flange faces, provide new gasket and re-bolt joint 13068 Remove flange cover plate and clear away, clean flange face, provide new gasket and joint new pipe to the same 13069 Cut into and remove short length of pipe in position, provide and joint in pipe ends with new flanged connector with screwed end to receive new fitting (measure separately)	Pipe diameter (mm)											
	80	100	150	200	250	300	350	400	450	500	600	
	A	B	C	D	E	F	G	H	I	J	K	
	51.20	56.20	61.90	68.80	75.50	81.90	92.60	98.00	107.90	116.30	123.80	13067
	47.20	51.50	56.70	63.00	69.10	74.80	81.90	86.70	94.60	100.80	111.60	13068
	777.50	926.50	1,202.60	1,611.50	2,600.10	2,960.70	5,192.90	5,493.10	6,336.80	8,557.00	12,731.70	13069

Item	GALVANIZED MILD STEEL PIPES AND FITTINGS	Pipe diameter (mm)										Item	
		15	20	25	32	40	50	65	80	100	125		150
		A	B	C	D	E	F	G	H	I	J		K
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13070	Pipe laid in trench	10.90	14.20	17.40	22.00	25.40	30.80	41.60	48.30	64.70	94.20	109.00	13070
13071	Pipe fixed to floor, wall or soffits	13.10	16.50	20.30	25.20	29.20	35.70	46.90	54.90	72.40	101.30	117.30	13071
	<i>Each</i>												
13072	Extra over for cap end or plug	-	-	-	-	-	45.30	53.10	63.70	80.60	100.60	144.80	13072
13073	Joint to existing pipe including socket, connector or coupling required	28.30	32.40	33.80	41.20	52.80	58.70	71.80	86.00	103.30	135.30	197.60	13073
13074	Extra over for bend or elbow	-	-	-	-	-	90.60	103.30	127.90	157.20	208.80	383.50	13074
13075	Ditto for three-way elbow or tee	-	-	-	-	-	128.90	155.00	186.00	227.60	295.20	452.00	13075
13076	Ditto for cross	-	-	-	-	-	154.50	174.20	198.40	232.00	308.30	457.50	13076
13077	Ditto for reducer	-	-	-	-	-	87.80	95.90	115.70	135.40	174.60	224.40	13077
13078	Flanged tank connector or double nut tank connector with back-nuts and washers, and joint to water tank or cistern including drilling if required	61.40	80.30	102.70	122.20	157.80	193.90	232.90	281.90	328.40	431.30	512.90	13078
13079	Cast iron puddle flange tank connector but with joint to existing concrete water tank wall (any thickness) including grouting, bedding in mastic (taking down work measured separately)	165.70	193.50	232.80	442.90	519.20	626.40	748.40	985.80	1,105.00	1,332.20	1,538.70	13079
13080	Ditto but in gunmetal	354.60	483.60	510.40	1,273.70	1,397.10	1,946.70	2,094.50	2,631.30	3,291.50	4,154.70	4,973.20	13080
13081	Cast iron puddle flange tank connector cast in concrete	176.80	204.20	245.90	456.70	538.50	648.70	771.20	1,006.50	1,132.20	1,370.20	1,573.60	13081
13082	Ditto but in gunmetal	365.70	494.30	523.50	1,287.50	1,416.30	1,969.00	2,117.20	2,652.00	3,318.70	4,192.70	5,008.00	13082
13083	Cement joint to junction arm on cast pipe	-	-	-	13.30	14.10	16.60	19.90	24.60	29.30	36.00	43.40	13083

Item	GALVANIZED MILD STEEL PIPES AND FITTINGS (CONT'D)											Item	
	Pipe diameter (mm)												
	15	20	25	32	40	50	65	80	100	125	150		
	A	B	C	D	E	F	G	H	I	J	K		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>												
13084	Take up and clear away pipe laid in trench (trench excavation measured separately)	1.50	1.90	2.20	2.70	3.10	3.80	4.70	5.60	6.60	8.10	9.70	13084
13085	Take up and set aside for re-use pipe laid in trench (ditto)	2.10	2.70	3.00	3.60	4.20	4.80	5.70	6.60	7.80	8.90	10.10	13085
13086	Take down and clear away pipe fixed to floor, wall or soffits	1.80	2.30	2.60	3.10	3.70	4.40	5.50	6.50	7.60	9.30	11.20	13086
13087	Take down and set aside for re-use pipe fixed to floor, wall or soffits.....	2.60	3.30	3.80	4.40	5.00	5.90	6.90	8.00	9.30	10.70	12.20	13087
13088	Lay only pipe in trench.....	5.00	5.70	6.40	7.20	8.00	9.10	10.60	11.70	13.30	15.00	16.50	13088
13089	Fix only pipe to floor, wall or soffits.....	7.20	8.10	9.30	10.60	11.80	13.90	15.80	18.30	21.10	22.10	24.70	13089
	<i>Each</i>												
13090	Re-make existing joint including cleaning ends.....	21.50	25.50	28.80	31.20	35.10	37.60	42.50	45.40	51.10	64.00	88.30	13090
13091	Seal off existing pipe laid or fixed in position including threading end and providing and jointing on cap or plug.....	40.90	50.60	61.80	72.10	84.10	95.10	109.90	134.50	176.50	219.60	285.20	13091
13092	Re-make cap or plug and clear away, prepare end of existing pipe for and joint new pipe to the same including providing connector.....	30.80	35.80	41.50	48.60	59.10	65.90	78.90	101.60	125.00	158.10	229.30	13092
13093	Cut into and remove short length of pipe laid or fixed in position, and provide and joint in new tee complete with connector, barrel nipple, etc., as required.....	112.10	125.00	148.80	187.70	231.40	273.10	403.70	543.50	773.20	1,162.70	1,616.50	13093

Item	UPVC LINED GALVANIZED MILD STEEL PIPES AND FITTINGS											Item	
	China origin UPVC lined galvanised steel pipes and fittings : - <i>Per linear metre</i>	Pipe diameter (mm)											
		15	20	25	32	40	50	65	80	100	125	150	
		A	B	C	D	E	F	G	H	I	J	K	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13094	Pipe laid in trench.....	32.00	37.00	45.40	54.00	66.50	86.80	119.00	151.10	213.40	279.20	344.80	13094
13095	Pipe fixed to floor, wall or soffits.....	34.40	39.60	48.50	57.50	70.40	91.80	124.50	157.90	221.30	286.60	353.60	13095
	<i>Each</i>												
13096	Extra over pipe for cap end or plug.....	-	-	-	-	-	93.00	125.80	155.60	224.30	339.80	453.60	13096
13097	Joint to existing pipe including socket, connector or coupling required.....	48.40	56.70	59.40	80.60	106.80	128.40	186.20	234.10	296.60	459.30	614.80	13097
13098	Extra over for bend or elbow.....	-	-	-	-	-	189.10	256.40	333.40	442.40	730.60	867.30	13098
13099	Ditto for three-way elbow or tee.....	-	-	-	-	-	247.70	353.60	463.90	635.60	946.80	1,246.90	13099
13100	Ditto for cross.....	-	-	-	-	-	314.60	463.70	558.40	733.70	1,250.00	1,737.10	13100
13101	Ditto for reducer.....	-	-	-	-	-	177.00	244.30	316.10	464.80	500.60	561.90	13101
	Add to either of Items 13094 to 13101 for pipes fitting of Japan origin.....	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	
	<i>Per linear metre</i>												
13102	Take up and clear away pipe laid in trench (trench excavation measured separately).....	1.70	2.10	2.40	2.90	3.40	4.10	5.00	6.10	7.10	8.70	10.40	13102
13103	Take up and set aside for re-use pipe laid in trench (ditto).....	2.30	3.00	3.30	3.90	4.70	5.30	6.30	7.20	8.60	9.80	11.10	13103
13104	Take down and clear away pipe fixed to floor, wall or soffits.....	2.00	2.50	2.90	3.40	4.10	4.80	5.90	7.10	8.20	10.00	12.00	13104
13105	Take down and set aside for re-use pipe fixed to floor, wall or soffits.....	2.90	3.30	4.10	4.80	5.40	6.50	7.70	8.70	10.20	11.70	13.40	13105
13106	Lay only pipe in trench.....	5.30	6.10	6.80	7.70	8.60	9.70	11.00	12.20	13.60	15.20	16.60	13106
13107	Fix only pipe to floor, wall or soffits.....	7.70	8.70	9.90	11.20	13.10	15.50	16.50	19.00	21.60	22.60	25.40	13107

Item	UPVC LINED GALVANIZED MILD STEEL PIPES AND FITTINGS (CONT'D)											Item	
China origin UPVC lined galvanised steel pipes and fittings : - (cont'd) <i>Each</i>	Pipe diameter (mm)												
	15	20	25	32	40	50	65	80	100	125	150		
	A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	K \$		
13108	Re-make existing joint including cleaning ends	23.70	28.00	31.60	34.30	38.60	41.30	46.50	49.70	55.90	69.90	96.70	13108
13109	Seal off existing pipe laid or fixed in position including threading end and providing and jointing on cap or plug	50.20	62.60	78.20	96.50	117.00	139.40	182.00	228.30	329.30	475.60	620.50	13109
13110	Re-make cap or plug and clear away, prepare end of existing pipe for and joint new pipe to the same including providing connector	40.00	47.30	57.30	73.10	93.20	112.10	156.50	200.30	289.60	437.90	590.30	13110
13111	Cut into and remove short length of pipe laid or fixed in position, and provide and joint in new tee complete with connector, barrel nipple, etc., as required	129.40	147.60	173.00	222.00	275.70	333.60	507.10	681.80	972.20	1,451.30	2,136.00	13111

Item	STAINLESS STEEL PIPES AND FITTINGS										Item	
	European origin Grade 316 pipe and fittings recommended by the manufacturer : -	Pipe diameter (mm)										
		15	18	22	28	35	42	54	76	89	108	
	<i>Per linear metre</i>	A	B	C	D	E	F	G	H	I	J	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13112	Pipe laid in trench	55.00	63.60	82.90	100.80	142.90	174.00	217.60	375.80	425.60	574.00	13112
13113	Pipe fixed to floor, wall or soffits	58.70	67.30	86.90	105.40	148.30	180.00	224.80	381.30	432.30	581.50	13113
	<i>Each</i>											
13114	Extra over for cap end or plug	-	-	-	-	-	90.40	95.40	99.20	124.80	138.60	13114
13115	Ditto for bend or elbow	-	-	-	-	-	286.60	341.50	470.20	538.20	628.50	13115
13116	Ditto for three-way elbow or tee	-	-	-	-	-	304.90	347.00	1,149.40	1,197.90	1,672.80	13116
13117	Ditto for cross	-	-	-	-	-	404.00	440.40	1,475.50	1,666.20	2,640.60	13117
13118	Ditto for reducer	-	-	-	-	-	242.10	280.90	414.50	499.90	597.70	13118
13119	Flanged tank connector or double nut tank connector with back-nuts and washers and joint to water tank or cistern including drilling if required	74.20	87.80	106.60	127.40	156.60	197.80	270.30	347.40	394.10	493.30	13119
13120	Ditto but in gunmetal	162.50	192.70	264.10	253.40	337.00	412.70	701.30	767.10	838.40	1,112.10	13120
13121	Ditto but in stainless steel	176.90	209.70	289.20	274.60	366.80	448.30	770.50	863.10	975.70	1,277.60	13121
13122	Cast iron puddle flange tank connector but with joint to existing concrete water tank wall (any thickness) including grouting, bedding in mastic (taking down work measured separately)	165.70	187.20	202.60	232.80	442.90	519.20	626.40	747.70	985.60	1,104.40	13122
13123	Ditto but in gunmetal	354.60	477.40	486.40	510.40	1,273.70	1,397.10	1,946.50	2,094.30	2,631.10	3,291.20	13123
13124	Ditto but in stainless steel	393.40	533.60	543.10	554.20	1,330.60	1,462.00	2,257.40	2,403.10	3,161.90	3,871.10	13124
13125	Cast iron puddle flange tank connector cast in concrete	176.80	198.10	213.30	245.90	456.70	538.50	648.70	771.00	1,006.30	1,131.90	13125
13126	Ditto but in gunmetal	365.70	487.30	497.20	523.50	1,287.50	1,416.30	1,969.00	2,117.00	2,651.80	3,318.40	13126
13127	Ditto but in stainless steel	391.50	525.80	553.80	602.20	1,344.40	1,481.30	2,227.90	2,394.30	3,182.60	3,893.90	13127
13128	Cement joint to junction arm on cast pipe	-	-	-	-	13.30	14.70	17.80	23.00	27.10	31.50	13128
13129	Joint to existing pipe including socket, connector or coupling required	56.30	61.60	66.70	77.70	94.30	108.00	130.10	466.40	514.60	691.00	13129

Item	STAINLESS STEEL PIPES AND FITTINGS (CONT'D)										Item	
	European origin Grade 316 pipe and fittings recommended by the manufacturer : - (cont'd)	Pipe diameter (mm)										
		15	18	22	28	35	42	54	76	89		108
	<i>Per linear metre</i>	A	B	C	D	E	F	G	H	I	J	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13130	Take up and clear away pipe laid in trench (trench excavation measured separately)	1.70	1.90	2.10	2.40	2.90	3.40	4.10	5.00	6.10	7.10	13130
13131	Take up and set aside for re-use pipe laid in trench (ditto)	2.30	2.60	3.00	3.30	3.90	4.70	5.30	6.30	7.20	8.60	13131
13132	Take down and clear away pipe fixed to floor wall or soffits	2.00	2.20	2.50	2.90	3.40	4.10	4.80	5.90	7.10	8.20	13132
13133	Take down and set aside for re-use pipe fixed to floor, wall or soffits.....	2.90	3.10	3.30	4.10	4.80	5.40	6.50	7.70	8.70	10.20	13133
13134	Lay only pipe in trench.....	11.70	12.50	13.50	15.10	16.80	18.90	21.20	26.80	28.00	29.90	13134
13135	Fix only pipe to floor, wall or soffits	15.40	16.20	17.30	19.50	22.40	25.50	29.30	32.30	34.70	37.50	13135
	<i>Each</i>											
13136	Re-make existing joint including cleaning ends.....	23.70	25.50	28.00	31.60	34.30	38.60	41.30	46.20	49.20	55.30	13136
13137	Seal off existing pipe laid or fixed in position including threading end and providing and jointing on cap or plug	55.70	60.80	68.20	85.50	99.10	120.60	136.20	159.10	202.90	260.30	13137
13138	Re-make cap or plug and clear away, prepare end of existing pipe for and joint new pipe to the same including providing connector	46.40	54.60	54.80	62.70	75.30	84.30	97.50	302.30	336.20	452.20	13138
13139	Cut into and remove short length of pipe laid or fixed in position, and provide and joint in new tee complete with connector, barrel nipple, etc., as required	157.00	159.90	175.60	204.30	248.60	290.30	335.10	1,161.10	1,285.00	1,614.50	13139

Item	COPPER PIPES AND FITTINGS									Item	
	Pipe diameter (mm)										
	15	22	28	35	42	54	67	76	108		
	A	B	C	D	E	F	G	H	I		
	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>										
13140	Pipe laid in trench.....	40.60	67.40	85.00	134.60	164.30	213.40	276.50	390.00	718.20	13140
13141	Pipe fixed to floor, wall or soffits	44.90	93.10	106.80	155.80	186.50	237.90	286.80	420.60	755.80	13141
	Brass "Compression type" fittings : -										
	<i>Each</i>										
13142	Extra over pipe for stop end	-	-	-	-	118.10	138.50	217.80	270.90	374.50	13142
13143	Ditto for bend or elbow (copper to copper)	-	-	-	-	99.90	145.10	172.80	192.70	266.40	13143
13144	Ditto (copper to steel)	-	-	-	-	206.60	327.10	438.80	486.10	567.20	13144
13145	Ditto for tee (all ends for copper)	-	-	-	-	127.30	215.20	254.70	282.60	602.20	13145
13146	Ditto (copper to copper to steel)	-	-	-	-	147.40	236.30	618.40	744.80	2,013.40	13146
13147	Ditto for cross (all ends for copper)	-	-	-	-	363.80	498.80	609.40	675.00	938.00	13147
13148	Flanged tank connector or double nut tank connector with back-nuts and washers, and joint to water tank or cistern including drilling if required	162.50	235.00	345.90	506.50	1,364.00	2,805.70	4,358.60	5,441.70	9,230.90	13148
13149	Joint to existing pipe including connector or coupling as required (copper to copper)	24.40	31.60	44.20	66.50	84.20	115.20	116.40	137.30	200.50	13149
13150	Ditto (copper to steel)	40.60	56.20	123.40	200.90	278.80	343.20	543.80	617.50	889.40	13150
	Brass or copper "Capillary type" fittings : -										
	<i>Each</i>										
13151	Extra over pipe for stop end	-	-	-	-	72.00	80.80	117.10	119.30	151.00	13151
13152	Ditto for bend or elbow (copper to copper)	-	-	-	-	52.90	71.00	114.40	165.40	748.30	13152
13153	Ditto (copper to steel)	-	-	-	-	103.10	156.00	228.80	253.60	340.90	13153
13154	Ditto for tee (all ends for copper)	-	-	-	-	83.80	119.50	404.70	412.00	954.80	13154
13155	Ditto (copper to copper to steel)	-	-	-	-	190.10	282.60	556.40	541.10	1,430.20	13155
13156	Ditto for cross (all ends for copper)	-	-	-	-	393.80	534.30	590.00	620.50	790.30	13156
13157	Flanged tank connector or double nut tank connector with back-nuts and washers, and joint to water tank or cistern including drilling if required	162.50	235.00	345.90	506.50	1,364.00	2,805.70	4,358.60	5,441.70	9,230.90	13157
13158	Joint to existing pipe including connector or coupling as required (copper to copper)	23.10	27.50	31.80	39.60	48.30	80.40	121.20	141.80	816.30	13158
13159	Ditto (copper to steel)	56.40	73.40	70.60	77.10	109.50	171.30	235.90	326.90	1,209.00	13159

Item	COPPER PIPES AND FITTINGS (CONT'D)									Item
	Outside diameter (mm)									
	15	22	28	35	42	54	67	76	108	
	A	B	C	D	E	F	G	H	I	
	\$	\$	\$	\$	\$	\$	\$	\$	\$	
	<i>Per linear metre</i>									
13160	1.40	1.70	2.00	2.40	2.90	3.40	4.30	5.00	5.90	13160
13161	2.00	2.40	2.90	3.30	3.80	4.40	5.30	5.90	7.10	13161
13162	1.70	2.10	2.50	2.90	3.40	4.10	5.00	5.70	6.80	13162
13163	2.40	3.00	3.50	3.90	4.70	5.30	6.30	6.90	8.40	13163
13164	4.40	5.10	5.70	6.40	7.20	8.00	9.20	9.80	11.30	13164
13165	11.00	12.60	13.00	13.50	14.60	18.70	20.90	22.50	24.00	13165
	<i>Each</i>									
13166	7.20	8.30	9.60	10.70	11.90	13.10	15.50	17.90	22.60	13166
13167	28.60	33.40	38.10	42.90	47.70	57.20	66.70	76.30	95.40	13167
13168	30.30	37.50	49.40	104.10	140.00	158.60	179.60	188.00	226.10	13168
13169	33.10	39.00	46.10	82.80	91.40	104.30	142.30	172.60	225.80	13169
13170	29.30	37.00	50.90	74.00	92.30	125.10	242.90	305.20	419.60	13170
13171	31.30	37.70	42.50	52.60	63.40	106.60	153.10	177.50	863.20	13171
13172	46.60	60.30	81.50	121.50	165.00	263.60	873.40	954.10	2,620.20	13172
13173	52.90	61.60	77.50	109.00	133.90	179.20	484.40	526.90	1,368.00	13173
	Pipe diameter (mm)									
	15	22	28	35	42	54				
	A	B	C	D	E	F				
	\$	\$	\$	\$	\$	\$				
13174	17.80	21.60	23.10	35.20	37.30	47.90				

Item	PLASTIC RAINWATER GUTTERS AND FITTINGS	Internal diameter (mm)				Item
		75	100	125	150	
		A	B	C	D	
	<i>Per linear metre</i>	\$	\$	\$	\$	
13175	Half round gutter fixed on brackets at 1 m (maximum) centres	78.70	106.20	154.40	203.60	13175
	<i>Each</i>					
13176	Extra over half round gutter for stop end	37.10	47.70	64.20	80.50	13176
13177	Ditto for internal or external angle	154.50	186.80	279.80	349.30	13177
13178	Nozzle outlet	66.50	73.50	101.90	117.30	13178
13179	Combined stop end and nozzle outlet	80.90	89.80	118.10	131.50	13179
	<i>Per linear metre</i>					
13180	Take down and clear away gutter	7.80	9.40	10.80	12.40	13180
13181	Take down and set aside for re-use gutter	9.00	10.80	12.60	14.40	13181
13182	Fix only gutter including providing brackets at 1 m (maximum) centres	49.10	59.70	84.50	110.30	13182

Item	PLASTIC RAINWATER, WASTE, SOIL OR VENTILATING PIPES AND FITTINGS	Pipe diameter (mm)						Item
		32	40	50	82	110	160	
		A	B	C	D	E	F	
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	\$	
13183	Pipe fixed to floor, wall or soffits	24.40	31.40	42.20	74.30	109.90	207.10	13183
	<i>Each</i>							
13184	Extra over pipe for cap end	-	-	42.70	87.70	137.80	285.80	13184
13185	Joint to existing pipe including all necessary sockets, connector or coupling	39.30	53.30	61.80	95.90	115.10	342.50	13185
13186	Extra over pipe for bend or elbow	-	-	32.40	73.60	90.30	401.60	13186
13187	Ditto for branch	-	-	44.90	77.70	91.90	753.40	13187
13188	Ditto for double branch	-	-	67.60	256.30	331.40	1,239.00	13188
13189	Add to either of Items 13186 to 13188 for screwed access	-	-	154.60	166.10	174.00	241.20	13189
13190	Tapered socket with cap nut and joint to steel tubing or brass fittings	20.00	36.40	70.00	-	-	-	13190
13191	Flat roof outlet with raised grating	-	-	-	141.50	193.20	332.90	13191
13192	Cement joint to junction arm on cast iron pipe	11.50	14.80	15.40	21.50	25.60	-	13192
	<i>Per linear metre</i>							
13193	Take down and clear away pipe fixed to floor, wall or soffits	2.40	2.90	3.40	5.20	6.30	9.50	13193
13194	Take down and set aside for re-use pipe fixed to floor, wall or soffits	3.30	3.80	4.40	6.00	7.10	9.20	13194
13195	Fix only pipe to floor, wall or soffits	7.70	8.50	9.60	11.70	13.10	16.00	13195
	<i>Each</i>							
13196	Seal off existing pipe fixed in position including providing and jointing on cap or plug	37.40	48.50	58.30	103.40	157.60	314.50	13196
13197	Remove cap or plug and clear away, prepare end of existing pipe for and joint new pipe to the same	32.30	40.50	44.30	57.60	74.30	99.50	13197
13198	Cut into and remove short length of pipe fixed in position, provide and joint in new single junction complete with special sockets	124.60	175.00	211.10	330.50	460.50	1,732.40	13198

Item	PLASTIC FLUSHING WATER SERVICE PIPES AND FITTINGS										Item	
	Pipe diameter (mm)											
	15	20	25	32	40	50	65	80	100	150		
	<i>Per linear metre</i>	A	B	C	D	E	F	G	H	I	J	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13199	Pipe laid in trench.....	12.20	16.70	25.20	30.70	57.40	98.80	127.20	155.30	193.20	287.00	13199
13200	Pipe fixed to floor, wall or soffits.....	17.50	22.30	31.10	36.70	63.80	105.60	134.90	163.70	202.80	299.20	13200
	<i>Each</i>											
13201	Extra over pipe for cap end.....	-	-	-	-	-	46.60	48.30	98.70	244.70	963.00	13201
13202	Ditto for bend or elbow.....	-	-	-	-	-	139.60	216.80	314.30	827.50	2,137.20	13202
13203	Ditto for tee.....	-	-	-	-	-	276.20	503.30	574.50	873.80	1,542.70	13203
13204	Joint to existing pipe including socket, connector or coupling as required.....	36.10	43.80	54.80	64.40	96.20	125.80	220.80	273.60	682.20	1,663.20	13204
13205	Straight or bent connector and joint to steel tubing or brass fittings.....	72.80	84.30	100.30	121.30	166.10	186.70	-	-	-	-	13205
13206	Flanged tank connector or double nut tank connector with back-nuts and washers and joint to water tank or cistern including drilling if required.....	224.70	301.50	378.50	476.40	766.10	990.50	995.20	1,078.30	1,704.90	2,142.80	13206
	<i>Per linear metre</i>											
13207	Take up and clear away pipe laid in trench (trench excavation measured separately).....	1.30	1.60	1.80	2.20	2.70	3.20	4.00	4.80	5.70	8.60	13207
13208	Take up and set aside for re-use pipe laid in trench (ditto).....	1.80	2.30	2.60	3.00	3.50	4.10	4.80	5.70	6.50	8.40	13208
13209	Take down and clear away pipe fixed to floor, wall or soffits.....	1.50	1.90	2.20	2.70	3.10	3.80	4.70	5.60	6.60	9.70	13209
13210	Take down and set aside for re-use pipe fixed to floor, wall or soffits.....	2.10	2.60	3.20	3.60	4.20	5.00	5.70	6.60	7.80	10.20	13210
13211	Lay only pipe in trench.....	4.20	4.90	5.50	6.20	7.00	7.90	9.00	9.80	11.40	14.20	13211
13212	Fix only pipe to floor, wall or soffits.....	9.50	10.40	11.40	12.30	13.30	14.70	16.70	18.30	21.00	26.40	13212
	<i>Each</i>											
13213	Seal off existing pipe laid or fixed in position including threading end and providing and jointing on cap or plug.....	18.80	25.10	33.10	41.70	54.20	60.30	68.80	123.90	287.40	1,032.10	13213
13214	Re-make cap or plug and clear away, prepare end of existing pipe for and joint new pipe to the same including providing connector.....	15.70	20.60	25.50	32.30	40.20	44.30	50.80	57.60	74.40	99.50	13214
13215	Cut into and remove short length of pipe laid or fixed in position, and provide and joint in new tee complete with connector, barrel nipple, etc., as required.....	70.50	99.20	142.10	176.40	287.30	401.30	705.90	817.10	1,261.20	2,576.20	13215

Item	PLASTIC FRESH WATER SERVICE PIPES AND FITTINGS	Pipe diameter (mm)										Item
		15	20	25	32	40	50	65	80	100	150	
		A	B	C	D	E	F	G	H	I	J	
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
13216	Pipe laid in trench.....	9.50	11.90	17.90	20.60	27.70	38.30	47.60	69.10	104.30	200.80	13216
13217	Pipe fixed to floor, wall or soffits.....	14.80	17.40	23.80	26.70	34.10	45.10	55.30	77.50	113.90	213.00	13217
	<i>Each</i>											
13218	Extra over pipe for cap end.....	-	-	-	-	-	52.50	66.20	129.40	309.20	1,185.00	13218
13219	Ditto for bend or elbow.....	-	-	-	-	-	178.50	246.40	349.30	770.70	2,002.30	13219
13220	Ditto for tee.....	-	-	-	-	-	345.90	628.70	899.70	1,926.30	2,424.10	13220
13221	Joint to existing pipe including socket, connector or coupling as required.....	37.70	46.20	58.70	69.30	105.10	139.60	251.80	313.60	802.20	1,970.20	13221
13222	Straight or bent connector and joint to steel tubing or brass fittings.....	74.40	86.70	104.30	126.30	175.00	212.00	-	-	-	-	13222
13223	Flanged tank connector or double nut tank connector with back-nuts and washers and joint to water tank or cistern including drilling if required.....	224.70	301.50	378.50	476.40	766.10	990.50	995.20	1,078.30	1,704.90	2,142.80	13223
	<i>Per linear metre</i>											
13224	Take up and clear away pipe laid in trench (trench excavation measured separately).....	1.30	1.60	1.80	2.20	2.70	3.20	4.00	4.80	5.70	7.90	13224
13225	Take up and set aside for re-use pipe laid in trench (ditto).....	1.80	2.30	2.60	3.00	3.50	4.10	4.80	5.70	6.50	8.40	13225
13226	Take down and clear away pipe fixed to floor, wall or soffits.....	1.50	1.90	2.20	2.70	3.10	3.80	4.70	5.60	6.60	8.90	13226
13227	Take down and set aside for re-use pipe fixed to floor, wall or soffits.....	2.10	2.60	3.20	3.60	4.20	5.00	5.70	6.60	7.80	10.20	13227
13228	Lay only pipe in trench.....	4.10	4.80	5.40	6.20	6.90	7.80	8.90	9.70	11.30	14.10	13228
13229	Fix only pipe to floor, wall or soffits.....	9.40	10.40	11.30	12.20	13.30	14.60	16.60	18.10	20.80	26.20	13229
	VULCATHENE MECHANICAL WASTE PIPES AND FITTINGS											
									Pipe diameter (mm)			
									38	51		
	<i>Per linear metre</i>								A	B		
									\$	\$		
13230	Pipe fixed to floor, wall or ceiling with and including brackets.....								183.20	234.90		13230
	<i>Each</i>											
13231	Extra over pipe work for cap end.....								-	89.60		13231
13232	Joint to existing pipe work including all necessary sockets, connection or coupling.....								187.00	242.50		13232
13233	Extra over pipe for bend or elbow.....								-	250.70		13233
13234	Ditto for branch.....								-	344.10		13234
13235	Ditto for reducer.....								-	279.50		13235

Item	DRAW-OFF TAPS AND VALVES, BALL VALVES ETC.									Item	
	Supply and fix						Take down and clear away				
	Brass			Chromium plated brass							
	Nominal size (mm)			Nominal size (mm)			Nominal size (mm)				
	13	20	25	13	20	25	13	20	25		
	A	B	C	D	E	F	G	H	I		
	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	Draw-off taps and valves as G.S. Item 19.50 :-										
	Each										
13236	Screw down bib cock with crutch handle	50.60	68.40	102.80	98.30	168.30	233.50	11.20	11.20	11.20	13236
13237	Ditto but with crutch handle and hose union	68.30	102.80	164.90	116.00	202.80	295.60	11.20	11.20	11.20	13237
13238	Ditto but for "Easy-clean" pattern with capstan head marked "Hot" or "Cold"	-	-	-	169.80	256.50	-	11.20	11.20	11.20	13238
13239	Self closing non-concussive bib cock marked "Hot" or "Cold"	175.20	-	-	352.40	-	-	11.20	-	-	13239
13240	"Easy-clean" pattern screw down pillar cock with capstan head marked "Hot" or "Cold"	-	-	-	171.60	255.40	-	11.20	11.20	-	13240
13241	Lever action pillar tap for cold water	-	-	-	314.80	-	-	11.20	-	-	13241
13242	Lever action self-closing non-concussive basin pillar tap with time delay action for cold water	-	-	-	708.00	-	-	11.20	-	-	13242
13243	Self closing non-concussive pillar cock marked "Hot" or "Cold"	-	-	-	376.20	-	-	11.20	-	-	13243
13244	Self-closing non-concussive basin pillar tap with time delay action for cold	-	-	-	362.00	-	-	11.20	-	-	13244
13245	Screw down stop cock with crutch handle or square head for key (measured separately)	98.70	130.80	176.10	149.40	184.40	-	11.20	11.20	11.20	13245
13246	"Easy-clean" pattern screw down stop cock with capstan head capstan heads marked "Hot" or "Cold"	-	-	-	149.40	184.40	-	11.20	11.20	-	13246
13247	Sink mixer fitting with "Easy-clean" pattern screw down pillar cocks and marked "Hot" and "Cold", and swivel nozzle	-	-	-	408.50	-	-	11.20	-	-	13247
13248	Ditto but for basin with fixed nozzle	-	-	-	461.20	-	-	11.20	-	-	13248
13249	Ditto but for bath with fixed nozzle	-	-	-	513.80	-	-	11.20	-	-	13249
13250	Ditto but for bath with fixed nozzle, automatic diverter and flexible hand held shower including wall bracket	-	-	-	660.50	-	-	11.20	-	-	13250
13251	Shower mixer fitting with "Easy-clean" pattern screw down pillar cocks and capstan heads marked "Hot" and "Cold", and flexible hand held shower including wall bracket	-	-	-	498.90	-	-	11.20	-	-	13251
13252	Add to either of Items 13236 to 13251 inclusive if fitted with "Compression type" connector for copper tubing (per one end)	23.50	28.40	35.10	-	-	-	-	-	-	13252
13253	Ditto if fitted with "Capillary type" connector for copper tubing (per one end)	35.50	38.10	53.40	-	-	-	-	-	-	13253

Item	DRAW-OFF TAPS AND VALVES, BALL VALVES ETC. (CONT'D)								Item	
	Supply and fix									
	Nominal size (mm)									
	13	20	25	32	38	51	65	76		
	A	B	C	D	E	F	G	H		
	\$	\$	\$	\$	\$	\$	\$	\$		
	Draw-off taps and valves as G.S. Item 19.50 : - (cont'd)									
	<i>Each</i>									
13254	P.V.C. screw down diaphragm valve with wheel head	51.00	59.40	91.30	126.10	238.20	264.00	-	-	13254
13255	Ditto but flanged	96.90	125.50	173.60	221.80	264.20	291.70	356.40	431.50	13255
13256	Copper alloy gate valve with wheel head	82.30	98.60	114.80	155.50	195.60	294.90	476.00	550.90	13256
13257	Copper alloy non-return valve	135.40	174.70	248.80	359.50	518.00	768.20	1,043.60	1,221.00	13257
	Ball valves as G.S. Items 19.52 : -									
	<i>Each</i>									
13258	Brass ball valve with plastic float	166.60	205.90	231.50	305.70	355.30	393.70	650.20	832.70	13258
13259	Gun metal ball valve with plastic float	277.20	346.00	390.90	523.00	611.30	678.60	1,138.00	1,465.40	13259
	Ball valves for flushing cisterns as G.S. Item 19.53 : -									
	<i>Each</i>									
13260	Plastic ball valve with plastic float	67.20	75.30	-	-	-	-	-	-	13260
	Take down and clear away									
	Nominal size (mm)									
	13	20	25	32	38	51	65	76		
	A	B	C	D	E	F	G	H		
	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Each</i>									
13261	P.V.C. screw down diaphragm valve with wheel head.....	10.60	11.20	11.80	12.40	13.00	13.70	-	-	13261
13262	Ditto but flanged	12.40	13.00	13.30	13.70	14.00	14.30	15.50	16.10	13262
13263	Copper alloy gate valve with wheel head	21.70	22.30	22.90	23.60	24.20	24.80	25.40	26.00	13263
13264	Copper alloy non-return valve	21.70	22.30	22.90	23.60	24.20	24.80	25.40	26.00	13264
13265	Brass ball valve with plastic float	18.60	19.20	19.80	20.50	21.10	21.70	22.30	22.90	13265
13266	Gun metal ball valve with plastic float	18.60	19.20	19.80	20.50	21.10	21.70	22.30	22.90	13266
13267	Plastic ball valve with plastic float	18.60	19.20	-	-	-	-	-	-	13267

Item	DRAW-OFF TAPS AND VALVES, BALL VALVES ETC. (CONT'D)										Item	
	Take down and set aside for re-use											
	Nominal size (mm)											
	13	20	25	32	38	51	65	76				
	A	B	C	D	E	F	G	H				
	\$	\$	\$	\$	\$	\$	\$	\$				
13268	P.V.C. screw down diaphragm valve with wheel head	10.80	11.70	12.60	13.50	14.40	15.30	-	-		13268	
13269	Ditto but flanged	13.50	14.40	14.90	15.30	15.80	16.20	18.00	18.90		13269	
13270	Copper alloy gate valve with wheel head	27.00	27.90	28.80	29.70	30.60	31.50	32.40	33.30		13270	
13271	Copper alloy non-return valve	27.00	27.90	28.80	29.70	30.60	31.50	32.40	33.30		13271	
13272	Brass ball valve with plastic float	22.50	23.40	24.30	25.20	26.10	27.00	27.90	28.80		13272	
13273	Gun metal ball valve with plastic float	22.50	23.40	24.30	25.20	26.10	27.00	27.90	28.80		13273	
13274	Plastic ball valve with plastic float	22.50	23.40	-	-	-	-	-	-		13274	
	Fix only											
	Nominal size (mm)											
	13	20	25	32	38	51	65	76				
	A	B	C	D	E	F	G	H				
	\$	\$	\$	\$	\$	\$	\$	\$				
13275	P.V.C. screw down diaphragm valve with wheel head	12.30	13.40	14.20	15.00	15.80	16.90	-	-		13275	
13276	Ditto but flanged	22.80	24.70	26.00	39.30	40.60	43.20	45.80	77.40		13276	
13277	Copper alloy gate valve with wheel head	32.80	35.80	37.50	39.50	41.60	44.60	47.40	49.80		13277	
13278	Copper alloy non-return valve	32.80	35.80	37.50	39.50	41.60	44.60	47.40	49.80		13278	
13279	Brass ball valve with plastic float	28.30	30.80	32.30	34.00	35.90	38.30	40.40	41.70		13279	
13280	Gun metal ball valve with plastic float	28.30	30.80	32.30	34.00	35.90	38.30	40.40	41.70		13280	
13281	Plastic ball valve with plastic float	24.20	26.40	-	-	-	-	-	-		13281	
	European origin Grade 316 valve with adaptor, strainer, etc. and the like : -											
	Nominal size (mm)											
	15	18	22	28	35	42	54	76	89	108		
	A	B	C	D	E	F	G	H	I	J		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
13282	Supply and fix stainless steel gate valve	358.80	442.00	509.70	662.40	695.20	955.10	1,462.20	2,978.90	3,547.50	4,388.70	13282
13283	Supply and fix stainless steel check valve	308.10	327.70	431.90	624.30	639.60	765.50	889.00	2,495.90	2,966.70	3,664.50	13283
13284	Take down and clear away gate or check valve	21.60	21.90	22.20	22.90	23.50	24.10	24.70	25.30	25.90	26.60	13284
13285	Take down and set aside for re-use ditto	27.00	27.50	27.90	28.80	29.70	30.60	31.50	32.40	33.30	35.10	13285
13286	Fix only ditto	32.80	34.30	35.80	37.50	39.50	41.60	44.60	47.10	49.30	56.70	13286

Item	DRAW-OFF TAPS AND VALVES, BALL VALVES ETC. (CONT'D)	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	Item
	Valve as G.S. Item 19.50 : -					
	<i>Each</i>					
13287	100 mm Nominal size copper alloy gate valve with wheel head.....	808.60	12.80	18.30	61.90	13287
13288	150 mm Ditto.....	1,071.10	14.20	20.40	68.90	13288
13289	100 mm Ditto but flanged.....	923.10	13.40	19.20	117.50	13289
13290	150 mm Ditto.....	1,204.40	14.80	21.30	123.00	13290
13291	76 mm Nominal size flanged cast iron gate valve with wheel head.....	1,241.40	12.60	18.00	112.40	13291
13292	100 mm Ditto.....	1,687.30	13.40	19.20	117.50	13292
13293	150 mm Ditto.....	2,749.30	14.80	21.30	123.00	13293
13294	200 mm Ditto.....	4,868.30	16.00	23.00	159.10	13294
13295	250 mm Ditto.....	7,748.40	16.80	24.20	177.40	13295
13296	300 mm Ditto.....	11,428.20	21.90	25.40	204.50	13296
13297	350 mm Ditto.....	22,262.70	22.70	26.40	213.80	13297
13298	400 mm Ditto.....	28,581.20	23.50	27.30	223.00	13298
13299	450 mm Ditto.....	33,746.50	24.20	28.10	232.30	13299
13300	500 mm Ditto.....	45,006.60	24.80	28.80	241.50	13300
13301	600 mm Ditto.....	51,493.40	26.00	30.20	251.00	13301
13302	76 mm Nominal size heavy pattern gunmetal full way gate valve with wheel head.....	3,534.30	15.00	17.30	56.80	13302
13303	100 mm Ditto.....	6,503.00	16.00	18.30	61.90	13303
13304	150 mm Ditto.....	11,165.90	17.70	20.40	68.90	13304
13305	76 mm Nominal size flanged heavy pattern gunmetal full way gate valve with wheel head.....	4,534.50	15.50	18.00	56.80	13305
13306	100 mm Ditto.....	7,294.10	16.60	19.20	61.90	13306
13307	150 mm Ditto.....	12,101.90	18.40	21.30	68.90	13307
13308	200 mm Ditto.....	20,840.70	19.80	23.00	159.10	13308
13309	250 mm Ditto.....	30,300.80	20.90	24.20	177.40	13309
13310	300 mm Ditto.....	42,291.40	21.90	25.40	204.50	13310
13311	350 mm Ditto.....	43,218.80	22.70	26.40	213.80	13311
13312	400 mm Ditto.....	52,338.80	23.50	27.30	223.00	13312
13313	450 mm Ditto.....	64,057.70	24.20	28.10	232.30	13313
13314	500 mm Ditto.....	99,722.10	24.80	28.80	241.50	13314
13315	600 mm Ditto..... (The actual rate should be : \$130,825.30 for Item 13315A)	13,082.53	26.00	30.20	251.00	13315
13316	100 mm Nominal size copper alloy non-return valve.....	1,716.20	16.60	19.20	61.90	13316
13317	150 mm Ditto.....	2,959.30	18.40	21.30	67.40	13317

Item	DRAW-OFF TAPS AND VALVES, BALL VALVES ETC. (CONT'D)				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
13318	Thermostatic mixing valve 15mm	860.50	32.60	49.40	63.50	13318
13319	Ditto 20 mm	1,126.10	32.60	49.40	63.50	13319
13320	Ditto 22 mm	1,232.40	32.60	49.40	63.50	13320
13321	Ditto 25 mm	1,391.80	32.60	49.40	63.50	13321
13322	Thermostatic mixing valve 15 mm with safety shut-off device	940.20	32.60	56.90	63.50	13322
13323	Ditto 20 mm	1,232.40	32.60	56.90	63.50	13323
13324	Ditto 22 mm	1,349.30	32.60	56.90	63.50	13324
13325	Ditto 25 mm	1,524.60	32.60	56.90	63.50	13325
13326	15 mm thermoscopic mixing valve.....	1,408.70	33.50	49.40	63.50	13326
13327	Ditto with safety shut-off device.....	1,533.30	33.50	49.40	63.50	13327
13328	32 mm self-closing non-conclusive flushing devices, inlet connector and remote control system	2,099.70	35.10	52.90	119.20	13328
13329	32 mm diameter stainless steel flushing valve	1,189.60	20.20	27.00	28.30	13329
		Supply and fix		Take down and clear away		
	Diameter (mm)	15	20	15	20	
		A	B	C	D	
		\$	\$	\$	\$	
13330	Vandal proof surface mounted self closing non-concessive shower stopcock with time delay closing action with built-in adjustable flow rate device, supplied with anti-theft device fixed overhead shower and riser pipe	1,292.50	1,434.60	24.80	27.90	13330
13331	Vandal proof concealed self closing non-concessive shower stopcock ditto	1,550.80	1,684.70	24.80	27.90	13331
13332	Vandal proof surfaces mounted self closing non-concessive shower mixer stopcock with time delay closing action, knob to select showering temperature, built in adjustable flow device supplied with anti-theft device fixed overhead shower and riser pipe	2,036.60	2,187.40	18.60	27.90	13332
13333	Vandal proof concealed self closing non-concessive shower mixer stopcock ditto	2,462.30	2,613.00	24.80	27.90	13333
13334	Vandal proof self closing non-concessive basin pillar tap with time delay closing action, built in adjustable flow rate device, self cleaning piston and anti-splash gauze strainer	563.60	1,001.10	28.20	32.70	13334
13335	Ditto but with lever action for handicapped	980.20	1,082.00	31.40	35.80	13335
13336	Electronic operated basin pillar tap for cold water with self closing device and anti-blocking device, powered by transformer, supplied with angle stopcock with built in filter and check valve (electrical connection measured separately)	2,052.40	2,165.10	29.40	34.10	13336
13337	Ditto but operated by battery	1,831.40	1,933.10	29.40	34.10	13337
13338	Electronic operated basin pillar mixer for cold/hot water with self closing device and anti-blocking device, powered by transformer, supplied with angle stopcock with built in filter and check valve (electrical connection measured separately)	2,995.70	3,424.90	29.40	34.10	13338
13339	Ditto but operated by battery	3,237.20	3,252.60	29.40	34.10	13339

Item	LABOUR ON DRAW-OFF TAPS AND VALVES, BALL VALVES, ETC.										Item
	Take down and set aside for re-use bib cocks, pillar cocks, stop cocks, full way gate valves, mixing valves or other fittings with joints as follows including taking down and setting aside all necessary connectors :-										
	Nominal size (mm)										
	13	20	25	32	38	51	65	76	100	150	
	A	B	C	D	E	F	G	H	I	J	
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
	Each										
13340	Fitting jointed to galvanized steel or P.V.C. tubing at one end.....										13340
13341	Ditto but at two ends.....										13341
13342	Fitting solder jointed to lead pipe at one end.....										13342
13343	Ditto but at two ends.....										13343
13344	Fitting jointed to copper tubing with "Compression type" or "Capillary type" connector at one end.....										13344
13345	Ditto but at two ends.....										13345
	Fix only bib cocks, pillar cocks, stop cocks, full way gate valves, mixing valves or other fittings with joints as follows including providing all necessary connectors :-										
	Each										
13346	Fitting jointed to galvanized steel or P.V.C. tubing at one end.....										13346
13347	Ditto but at two ends.....										13347
13348	Fitting solder jointed to lead pipe at one end.....										13348
13349	Ditto but at two ends.....										13349
13350	Fitting jointed to copper tubing with "Compression type" or "Capillary type" connector at one end.....										13350
13351	Ditto but at two ends.....										13351
	SUNDRY REPAIRS TO COCKS, VALVES, BALL VALVES, ETC.										
	Nominal size (mm)										
	13	20	25	32	38	51	65	76	100	150	
	A	B	C	D	E	F	G	H	I	J	
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
	Each										
13352	Take off copper float from ball valve, solder to watertight and re-fix in position.....										13352
13353	Take off and clear away existing copper or plastic float from ball valve, provide and fix new plastic float.....										13353
13354	Take off and clear away metal or plastic connecting rod from ball valve, provide and fix new rod.....										13354

Item	SUNDRY REPAIRS TO COCKS, VALVES, BALL VALVES, ETC. (CONT'D)										Item	
	Nominal size (mm)											
	13	20	25	32	38	51	65	76	100	150		
	A	B	C	D	E	F	G	H	I	J		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
13355	<i>Each</i> Re-washer valve of bib cock, pillar cock, stop cock or ball valve including providing leather, vulcanised fibre, plastic or rubber washer as ordered.....										13355	
	31.60	36.40	43.60	51.30	58.70	68.00	99.40	103.10	128.30	154.60		
13356	Re-pack stuffing box, grind in valve, and regulate and adjust bib cock, pillar cock or stop cock.....										13356	
	61.80	70.60	83.80	97.10	114.70	132.40	176.50	194.10	211.80	229.40		
TRAPS AND WASTE OUTLETS												
	Supply and fix			Take down and clear away			Take down and set aside for re-use			Fix only		
	Nominal size (mm)			Nominal size (mm)			Nominal size (mm)			Nominal size (mm)		
	32	38	51	32	38	51	32	38	51	32	38	51
	A	B	C	D	E	F	G	H	I	J	K	L
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
13357	<i>Each</i> Plastic re-sealing anti-syphonic trap with 80 mm seal.....										13357	
	116.10	139.90	168.60	20.80	23.30	25.80	20.70	23.10	25.70	50.30	59.10	67.90
13358	Galvanized malleable iron "P", "S" or running trap with 38 mm or 76 mm seal, as ordered, and screwed cleaning eye including joints to fitting, waste outlet, or galvanized steel or P.V.C. tubing.....										13358	
	88.70	102.00	141.10	33.30	38.20	43.20	33.00	38.00	42.90	59.10	69.70	80.30
13359	Cast brass ditto.....										13359	
	157.20	176.80	276.20	33.30	38.20	43.20	33.00	38.00	42.90	59.10	69.70	80.30
13360	Chromium plated brass ditto.....										13360	
	166.10	203.30	312.00	33.30	38.20	43.20	33.00	38.00	42.90	59.10	69.70	80.30
13361	Add to Items 13358 to 13360 if fitted with connector for copper tubing.....										13361	
	102.90	118.70	165.80	-	-	-	-	-	-	-	-	-
13362	Approved "P" or "S" plastic bottle trap including joints to fitting, waste outlet or P.V.C. tubing.....										13362	
	92.30	110.10	-	20.80	23.30	-	20.70	23.10	-	50.30	59.10	-

Item	TRAPS AND WASTE OUTLETS (CONT'D)											Item		
	Supply and fix			Take down and clear away			Take down and set aside for re-use			Fix only				
	Nominal size (mm)			Nominal size (mm)			Nominal size (mm)			Nominal size (mm)				
	32	38	51	32	38	51	32	38	51	32	38	51		
	A	B	C	D	E	F	G	H	I	J	K	L		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
13363	<i>Each</i> Brass waste outlet with chromium plated flange and grating flynut, long shank slotted for overflow if required, and screwed for joint to galvanized steel tubing or trap including rubber or vulcanite plug with chromium plated ring and chain and fixing stud if required, and bedded in red lead cement in sink or basin.....												13363	
	129.00	161.10	236.70	23.30	28.80	31.90	24.00	30.60	33.90	39.70	53.80	61.80		
13364	Ditto but with chromium plated brass overflow grid and connection for bath.....												13364	
	150.60	184.30	-	24.50	30.70	-	25.70	33.00	-	43.20	59.10	-		
CISTERNS, TANKS AND CYLINDERS														
Galvanized low carbon steel to be manufactured to comply with G.S. Item 19.49 :-														
										Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
										A	B	C	D	
										\$	\$	\$	\$	
13365	Cistern, tank or cylinder n.e. 100 litre nominal capacity.....									2,537.70	120.00	42.00	115.60	13365
13366	Ditto but 100 - 200 litre nominal capacity.....									3,269.90	150.60	49.90	137.40	13366
13367	Ditto but 200 - 300 litre nominal capacity.....									4,469.70	204.50	65.70	186.90	13367
13368	Ditto but 300 - 500 litre nominal capacity.....									5,570.40	266.10	99.10	264.20	13368
13369	Ditto but 500 - 1,000 litre nominal capacity.....									7,508.90	367.00	145.00	401.60	13369
13369	Ditto but 1,000 - 2,000 litre nominal capacity.....									10,100.20	498.20	211.70	583.20	13369
13371	Ditto but 2,000 - 3,000 litre nominal capacity.....									12,605.90	665.90	257.70	710.30	13371
13372	Ditto but 3,000 - 5,000 litre nominal capacity.....									17,501.80	819.90	382.40	1,053.90	13372
13373	Ditto but 5,000 - 10,000 litre nominal capacity.....									20,744.00	1,656.50	573.60	1,580.90	13373
13374	Add to Item 13373 for additional 2,500 litres nominal capacity.....									1,657.80	490.00	180.10	300.20	13374

Item	FIBREGLASS WATER TANKS					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	One-piece fibreglass reinforced polyester watertank with cover comprising all necessary bolts, nuts and all necessary sealing and reinforcing fittings as required and including all joints to tubing :-					
	<i>Each</i>					
13375	Water tank n.e. 100 litre nominal capacity.....	1,433.30	53.60	38.10	105.10	13375
13376	Ditto but 100 - 200 litre nominal capacity.....	2,177.60	63.80	45.30	124.90	13376
13377	Ditto but 200 - 300 litre nominal capacity.....	2,826.40	84.10	59.70	169.90	13377
13378	Ditto but 300 - 500 litre nominal capacity.....	4,043.80	126.40	90.10	240.20	13378
13379	Ditto but 500 - 1,000 litre nominal capacity.....	5,738.40	184.90	131.80	365.10	13379
13380	Ditto but 1,000 - 1,500 litre nominal capacity.....	7,740.70	219.40	156.40	435.30	13380
13381	Ditto but 1,500 - 2,000 litre nominal capacity.....	11,458.10	270.00	192.40	530.20	13381
13382	Ditto but 2,000 - 3,000 litre nominal capacity.....	15,558.40	317.00	234.30	645.80	13382
13383	Ditto but 3,000 - 5,000 litre nominal capacity.....	26,194.90	516.40	347.70	958.10	13383
13384	Ditto but 5,000 - 10,000 litre nominal capacity.....	50,039.10	542.20	521.50	1,437.20	13384
13385	Add to Item 13384 for additional 1,000 litre nominal capacity.....	5,650.30	97.00	45.90	95.80	13385
	Panel type fibreglass reinforced polyester watertank with cover; comprising all necessary bolts, nuts and all necessary sealing and reinforcing fittings as required and including all joints to tubing :-					
	<i>Each</i>					
13386	Water tank 4000-5000 litre (nominal) capacity.....	21,285.80	1,066.90	951.10	2,641.90	13386
13387	Ditto but 5000-6000 litre (nominal) capacity.....	22,983.60	1,325.40	1,206.80	3,352.20	13387
13388	Ditto but 6000-7000 litre (nominal) capacity.....	25,247.90	1,552.60	1,417.30	3,927.40	13388
13389	Ditto but 7000-8000 litre (nominal) capacity.....	27,511.70	1,808.60	1,669.50	4,623.30	13389
13390	Ditto but 8000-9000 litre (nominal) capacity.....	29,403.60	2,229.40	2,161.50	6,004.20	13390
13391	Ditto but 9000-10000 litre (nominal) capacity.....	31,295.50	2,377.90	2,257.30	6,269.00	13391
13392	Ditto but 10000-12500 litre (nominal) capacity.....	35,089.40	2,750.00	2,498.10	6,929.50	13392
13393	Ditto but 12500-15000 litre (nominal) capacity.....	41,321.86	3,493.50	2,918.10	8,105.70	13393
13394	Ditto but 15000-17500 litre (nominal) capacity.....	113,545.25	3,792.50	3,413.40	9,481.60	13394
13395	Ditto but 17500-20000 litre (nominal) capacity.....	115,897.86	4,397.30	3,992.80	11,091.00	13395
13396	Ditto but 20000-25000 litre (nominal) capacity.....	127,170.43	5,276.40	4,670.50	12,973.60	13396
13397	Ditto but 25000-30000 litre (nominal) capacity.....	150,169.50	6,377.60	6,390.60	17,751.50	13397
13398	Add to Item 13397 for additional 5000 litre nominal capacity.....	20,839.90	1,512.50	1,720.10	4,777.90	13398

Item	STERILIZER SYSTEM AND DRINKING FOUNTAIN				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	Proprietary sterilizer system and drinking fountain including U.V. water sterilizer system/filter and all necessary accessories and fixing in accordance with the manufacturer's recommendations : -					
	Per Set					
13399	Single-station satin finished stainless steel barrier-free wall mounted drinking fountain 308 mm long x 165 mm high x 476 mm deep with backsplash comprising safety bubbler; a contoured basin; vandal-resistant push-button control; vandal-resistant bottom cover plate; and drain and trap assembly	16,513.20	84.30	66.60	225.20	13399
13400	Satin finish stainless steel counter top mounted drinking fountain 250 mm diameter x 48 mm deep comprising safety bubbler; a contoured basin; vandal-resistant push-button control; and drain and trap assembly	9,814.70	93.50	73.90	247.70	13400
13401	Satin finished stainless steel wall mounted drinking fountain 305 mm long x 152 mm high x 310 mm deep comprising polished chrome plated forged brass, integral basin shank, shielded, anti-squirt, vandal-resistant bubbler head; in-line bowl type strainer with positive rubber seals moulded onto a fine 60 micron mesh screen; push button activation, front adjustable, automatic diaphragm pressure regulation with fully adjustable flow; polished chrome-plated brass vandal-resistant combination waste strainer and tailpiece assembly; a polished chrome plated finish push button assembly; a low profile trap; and bottom plate with vandal resistant screws	6,383.40	84.30	66.60	225.20	13401
13402	Reinforced concrete pedestal drinking fountain 362 x 362 x 1016 mm high overall with exposed aggregate finish comprising polished chrome plated forged brass, integral basin shank, shielded, anti-squirt, vandal-resistant bubbler head; in-line bowl type strainer with rubber seals moulded onto a fine 60 micron mesh screen; push button activation, front adjustable, automatic diaphragm pressure regulation with fully adjustable flow; polished chrome-plated vandal-resistant waste strainer, a polished chrome plated finish push button; a lead-free brass screwdriver stop; and integral mounting plate	13,507.70	84.30	66.60	225.20	13402
	PRESSURE VESSELS					
	European origin pressure vessel complete with all necessary accessories in accordance with the manufacturer's recommendations : -					
	Per Set					
13403	Pressure vessel, vertical type, of 10 bars working pressure and 60 litres capacity	2,051.10	95.00	105.90	300.20	13403
13404	Ditto but 200 litres capacity	5,310.50	134.20	158.80	450.30	13404
13405	Ditto but 300 litres capacity	7,447.00	173.40	211.80	600.40	13405
13406	Ditto but 500 litres capacity	11,330.80	236.30	291.20	825.60	13406
13407	Ditto but 1,000 litres capacity	27,645.10	346.80	423.50	1,200.80	13407
	CLEARING TRAPS AND WASTE PIPES					
	Each				A \$	
13408	Clear blocked trap and waste pipe complete with combined overflow if necessary to lavatory basin, sink, bath or wall urinal bowl including taking off and re-fixing cleaning eye from trap, etc., if required and leaving trap and pipe in clean and perfect condition.....				37.50	13408
13409	Ditto but for trap and waste pipe to W.C., gully, stall or slab urinal				45.00	13409

Item	INSULATION TO PIPES OR CYLINDERS				Item							
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only							
		A \$	B \$	C \$	D \$							
	Insulation as G.S. Items 19.56 and 19.58 :-											
	<i>Per square metre</i>											
13410	Cover cylinder with insulation	196.20	21.90	23.30	101.10	13410						
	<i>Per linear metre</i>											
13411	Fit pipework n.e. 15 mm diameter with insulation	50.90	14.00	14.90	32.50	13411						
13412	Ditto but 15 - 30 mm diameter ditto	64.00	15.80	17.30	38.60	13412						
13413	Ditto but 30 - 40 mm diameter ditto	72.20	17.30	18.60	44.50	13413						
13414	Ditto but 40 - 55 mm diameter ditto	94.60	21.00	22.30	52.60	13414						
	WASTE PLUGS AND CHAINS											
	<i>Each</i>											
13415	Rubber or vulcanite waste plug n.e. 64 mm top diameter with chromium plated ring to receive chain (measured separately)	6.90	2.80	3.20	4.40	13415						
13416	Stout chromium plated brass chain ring and screw fixing stud if required n.e. 0.80 m long	19.00	4.60	5.00	7.10	13416						
	BALLOON GRATINGS AND FRESH AIR INLETS											
	<i>Each</i>	Supply and fix				Take down and clear away	Take down and set aside for re-use	Fix only				
		Nominal size (mm)										
		51	75	100	150							
		A \$	B \$	C \$	D \$	E \$	F \$	G \$				
13417	Stout galvanized iron wire balloon grating with pronged feet and set in top of pipe	18.10	24.40	27.80	32.40	5.40	5.90	8.80	13417			
13418	Stout copper wire ditto	46.80	54.40	61.00	65.50	5.40	5.90	8.80	13418			
	<i>Each</i>											
13419	Galvanized cast iron fresh air inlet valve with brass front and mica flap, and joint to top of 100 mm cast iron pipe	136.50	29.80	30.60	49.50				13419			
	<i>Each</i>											
13420	Take off and clear away existing mica flap, and provide and fix new							A \$	63.80	13420		
	FIRE COLLAR											
	<i>Each</i>	Pipe diameter (mm)										
		15	20	25	32	40	50	65	80	100	150	
		A \$	B \$	C \$	D \$	E \$	F \$	G \$	H \$	I \$	J \$	
13421	Pyrosleeve GV' type fire collar as ordered by the Maintenance Surveyor in writing	91.70	96.10	98.20	100.50	111.00	120.70	132.30	142.00	166.10	221.30	13421

Item	LABORATORY FITTINGS				Item	
		Supply and fix	Take down and clear away	Take down set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	"Brownall" laboratory fittings :-					
	<i>Each</i>					
13422	Ref : XL1202N - 0421, Drop tap with fixed serrated nozzle and 1/2 inch male threaded inlet connection	516.00	9.10	9.50	40.90	13422
13423	Ref : XL1203N - 0431, 1 inch angle tap with fixed serrated nozzle and 1/2 inch with inlet connection	516.00	9.10	9.50	40.90	13423
13424	Ref : XL1204C - 8M41, swivel swanneck with fixed serrated nozzle	882.50	10.30	11.40	43.80	13424
13425	Ref : XL 1402C - 8M44, swivel swanneck with fixed full bore anti-splash nozzle	845.00	10.30	11.40	43.80	13425
13426	Ref : XL 1206C - 8M31, swivel swanneck with two way side arm angle taps with fixed serrated nozzle	2,152.90	10.30	11.40	43.80	13426
13427	Ref : XL 1215C - 8M31, two way swivel swanneck with fixed serrated nozzle	2,106.00	10.30	11.40	43.80	13427
	"Broen" laboratory fittings :-					
	<i>Each</i>					
13428	Bench fitting Ref. 18.506.009 with 2 fixed valves and detachable nozzles and 1 valve with swivel spout and fixed nozzle	1,114.10	12.70	15.20	58.40	13428
13429	Bench fitting Ref. 18.503.009 with 2 valves and detachable nozzles	2,243.20	10.30	11.40	43.80	13429
13430	Bench fitting Ref. 18.505.009 with 1 valve and detachable nozzle	923.60	10.30	11.40	43.80	13430
13431	Bench fitting Ref. 18.002.009 valve for wall mounting with detachable nozzle	744.70	9.10	9.50	40.90	13431
13432	Bench fitting Ref. 18.304.009 valve for suspended or wall mounting with detachable nozzle	1,117.70	9.10	9.50	40.90	13432
13433	Bench mounted fitting Ref. 18.510.009 with 1 hole mixer with swivel spout and detachable nozzle and aerator 360mm high and 150mm stand out	2,477.80	10.30	11.40	43.80	13433
13434	Laboratory sink, size 552 x 400 x 231 mm, complete with waste fittings	1,298.30	76.60	78.70	418.50	13434
13435	Recovery trap W681, capacity 2.3 litres terminates with a 38mm	917.10	76.60	78.70	418.50	13435
	'Armitage Shank Larch' laboratory fittings :-					
	<i>Each</i>					
13436	Laboratory sink, size 560 x 355 mm, complete with waste fitting, plug and chain, trap and brackets (taps measured separately)	1,028.50	76.60	78.70	418.50	13436
	SANITARY FITTINGS					
	<i>Each</i>					
13437	Lavatory basin size 455 x 250mm, complete with waste fitting, plug and chain, trap, two taps or one tap and one tap hole stopper, and brackets or wall hanger.....	707.50	85.20	87.50	304.50	13437
13438	Ditto but size 365 x 255mm	707.50	85.20	87.50	304.50	13438
13439	Ditto but size 480 x 280mm	731.60	85.20	87.50	304.50	13439
13440	Ditto but size 380 x 330mm	731.60	85.20	87.50	304.50	13440
13441	Ditto but size 367 x 282mm	702.70	85.20	87.50	304.50	13441
13442	White vitreous china counter top wash basin, size 475 x 400 mm , complete with fittings, plug and chain and fixing brackets	660.10	76.60	78.70	275.20	13442
13443	White vitreous china under-counter wash basin, size 560 x 420 mm, complete with waste fittings, plug and chain and fixing brackets	1,441.50	76.60	78.70	380.80	13443
13444	Ditto but coloured	1,493.80	76.60	78.70	382.10	13444

Item	SANITARY FITTINGS (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	Each					
13445	Sink (any size) complete with waste fitting, plug and chain, trap and brackets or bedding on bearer wall (taps measured separately)	1,245.40	76.60	78.70	275.20	13445
13446	W.C. suite comprising pedestal pan complete with 50mm thick seat with or without cover, low or high level cistern with brackets or hanger, and flush bend or flush pipe including bedding and fixing pan as described	949.20	74.90	77.00	270.50	13446
13447	White vitreous china pedestal W.C. pan, wash down pattern with "P" or "S" trap and with or without vent	372.90	30.60	31.50	110.20	13447
13448	W.C. suite comprising pedestal pan for disable complete with 50mm thick seat with or without cover, low level cistern	4,102.60	77.30	80.50	282.20	13448
13449	Vitreous china close-coupled washdown w.c. pan with "P" or "S" trap and with or without vent	821.00	30.60	31.50	115.10	13449
13450	Proprietary 1.6 mm Thick type 316 AISI 18/8 Quality stainless steel floor mounted pedestal pan complete with seat with or without cover, high level cistern	14,611.80	77.30	80.50	282.20	13450
13451	W.C. suite comprising Asiatic type pan complete with high level cistern with brackets or hanger, and flush pipe including bedding pan in cement mortar (concrete surround measured separately)	1,132.50	77.30	80.50	285.40	13451
13452	Proprietary 0.9 mm Thick type 316 AISI 18/8 Quality stainless steel squatting W.C. pan complete with high level cistern, flush pipes	3,706.40	77.30	80.50	285.40	13452
13453	Proprietary stainless steel grade 316 squatting WC pan complete with p-trap, low level cistern, and foot control, size : 700 x 700 x 270 mm	4,756.10	107.40	110.20	377.60	13453
13454	White vitreous china Asiatic type W.C. pan with "P" or "S" trap and with or without vent (concrete surround measured separately)	351.70	30.60	31.50	120.00	13454
13455	Squatting w.c. suite comprising white fireclay plate with integral foot treads, white vitreous china washdown pan washdown pan and white vitreous china S-trap	751.70	30.60	31.50	119.50	13455
13456	Single individual stall pattern urinal complete with grating and trap including bedding in cement mortar and pointing in white cement (cistern, spreader, etc., measured separately)	2,728.90	59.80	61.20	231.20	13456
13457	Add to Item 13456 for each additional individual stall in the same range including overlap facings if required.....	2,728.90	59.80	61.20	231.20	13457
13458	Single section slab pattern urinal n.e. 1 m wide complete with two return ends, floor channel, outlet grating and trap including bedding in cement mortar and pointing in white cement (cistern, spreader, etc., measured separately)	4,890.50	123.50	126.00	560.00	13458
13459	Add to Item 13458 for each additional 610 mm wide back section and length of floor channel in the same range	2,658.90	61.00	63.00	278.20	13459
13460	Ditto for each intermediate division slab	702.20	31.70	32.40	143.20	13460
13461	Stall urinal manufactured from 1.6 mm thick type 316 AISI 18/8 Quality stainless steel, size 975 mm high x 600 mm wide and n.e. 750 mm long, complete with stainless steel hinged foot grating, level floor or tile step, outlet grating (cistern, spreader, etc. measured separately)	12,990.00	109.90	145.80	305.70	13461
13462	Add to Item 13461 for each additional 300 mm long in the same range	4,478.30	28.30	21.90	50.00	13462
	Per linear metre					
13463	Add to stall urinal for stainless steel step	2,765.60	18.20	18.70	69.00	13463
	Each					
13464	Wall urinal bowl complete with outlet grating, trap and concealed brackets or hanger (Cistern, spreader, etc., measured separately)	443.70	30.40	26.20	84.00	13464
13465	Division slab between wall urinal bowls complete with concealed hanger	433.10	13.00	13.10	35.10	13465
13466	Automatic flushing cistern (any size) complete with brackets or hanger, pet cock, and flush pipe and spreader for single urinal stall or bowl, or flush and sparge pipe n.e. 1 m long for single section slab urinal	840.40	64.80	66.50	226.20	13466
13467	Add to Item 13466 for each additional stall or bowl or 610 mm width of stall urinal served from the same cistern	97.30	10.30	10.50	43.60	13467

Item	SANITARY FITTINGS (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Each</i>					
13468	Hospital sluice fitting comprising combined bed-pan and wash up sink complete with loose or fixed trap, brackets, urinal bottle and bed-pan jets, high level cistern with brackets and flush pipe, waste fitting, plug and chain, drainer, supply fitting and hand spray with supply fitting	32,018.40	255.80	262.50	901.00	13468
13469	Stainless steel sink with single or double bowl including drain board n.e. 1.60 m long overall, complete with drainer, overflow, waste fitting, plug and chain, trap and brackets (taps measured separately)	1,894.70	28.70	21.90	97.00	13469
13470	Slop sink (any size) complete with ditto	3,810.20	76.60	78.70	310.90	13470
13471	Shower tray (any size) complete with waste fitting, plug and chain, and trap including bedding in cement mortar and pointing in white or coloured cement (Concrete surround or benching measured separately)	1,454.30	114.30	117.20	384.10	13471
13472	Vitreous enamelled cast iron bath n.e. 2 m long complete with combined overflow and waste fitting, plug and chain, trap and two taps	2,949.90	149.20	154.00	511.40	13472
	PARTS OF SANITARY FITTINGS					
	<i>Each</i>					
13473	Shower fitting comprising tap, connecting pipe, shower arm and shower head	226.90	22.10	22.80	73.00	13473
13474	Ditto but with shower mixer in lieu of tap	485.10	29.00	29.80	97.80	13474
13475	Ditto but with thermo-static shower mixer in lieu of tap	2,861.80	33.70	35.00	145.90	13475
13476	Solid plastic W.C. seat with moulded plastic adjustable hinges	46.50	11.70	11.20	17.50	13476
13477	Ditto but with cover	60.20	13.20	12.30	20.40	13477
13478	Solid W.C. seat with moulded adjustable hinges for disable	353.40	13.20	12.30	20.40	13478
13479	India rubber buffer to W.C. seat	14.10	1.40	1.80	6.90	13479
13480	Pair pillar hinge to W.C. seat	16.90	1.50	1.90	7.70	13480
13481	Pair double pillar hinge to W.C. seat and cover	21.20	2.10	2.60	10.30	13481
13482	Vitreous china low level flushing cistern, 7.50 litre capacity, complete with plastic syphon, ball valve, overflow and chromium plated lever.....	476.60	39.40	38.70	130.20	13482
13483	Vitreous china low level flushing cistern with water saving and efficient valve 7.5(max.)/2.5(min.) litres, complete with plastic syphon, ball valve, overflow and chromium plated lever	1,481.60	39.40	38.70	130.20	13483
13484	White vitreous china low level flushing cistern, 9.00 litres capacity, complete with plastic syphon, ball valve, overflow and chromium plated lever	538.00	44.10	45.50	153.10	13484
13485	White or black plastic low level flushing cistern, 9.00 litres capacity, complete with plastic syphon, ball valve, overflow and chromium plated lever	351.00	44.10	45.50	153.10	13485
13486	White or black plastic high level flushing cistern, 9.00 litres capacity, complete with handle and chain, plastic syphon with screwed outlet and rubber washers including adjusting and re-fixing lever arm	332.90	44.10	45.50	153.10	13486
13487	White or black plastic concealed type low level cistern, 7.5 litres capacity, complete with syphon, syphon, ball valve, chromium plated lever and low profile flush pipe	744.30	44.10	45.50	153.10	13487
13488	White or black plastic concealed type cistern, dual flush 6/3 litres capacity, complete with syphon, ball valve, overflow and chromium plated lever	672.00	44.10	45.50	153.10	13488
13489	Plastic syphon complete with chromium plated outlet connector including adjusting and re-fixing lever arm	140.50	25.60	26.20	72.90	13489
13490	Pair white porcelain enamelled brackets.....	233.70	9.40	11.10	52.70	13490

Item	PARTS OF SANITARY FITTINGS (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Each</i>					
13491	Chromium plated brass lever handle with linkage to syphon including adjusting	76.30	16.90	17.50	36.50	13491
13492	Plastic lever handle ditto	66.60	16.90	17.50	36.50	13492
13493	Heavy galvanized chain pull to W.C. cistern	29.10	16.10	-	14.60	13493
13494	Nylon cord pull ditto	25.40	16.10	-	14.60	13494
13495	Rod pull and guide for high level cistern	23.00	16.10	-	14.60	13495
13496	Foot operated flushing mechanism	648.00	25.60	26.20	85.00	13496
13497	Foot operated duct lever with high level cistern adaptor for wall thickness within 115 mm to 229 mm	901.60	29.00	29.80	92.30	13497
13498	White plastic flush pipe for low level cistern including connector	58.80	15.70	17.50	38.30	13498
13499	White plastic adjustable flush pipe for high level cistern	71.00	21.60	22.20	45.70	13499
13500	Universal black plastic flush pipe connector	25.90	8.00	8.70	17.50	13500
13501	White glazed fire-clay automatic flushing cistern, 4.50 litre capacity	498.50	23.70	24.50	84.70	13501
13502	Ditto but 9.00 litre capacity	520.80	27.30	28.00	94.90	13502
13503	Ditto but 13.50 litre capacity	553.70	30.60	31.50	103.60	13503
13504	Plastic syphon with screwed outlet and rubber washer to suit 4.50 litre capacity automatic flushing cistern	305.90	15.30	15.70	52.50	13504
13505	Ditto but for 9.00 litre capacity automatic flushing cistern	323.80	16.90	17.50	58.30	13505
13506	Ditto but for 13.50 litre capacity automatic flushing cistern	341.70	17.20	19.30	64.20	13506
13507	10 mm Plastic drip cock for automatic cistern	62.20	8.60	8.70	29.60	13507
13508	10 mm Brass drip cock ditto	113.50	10.30	10.50	35.10	13508
13509	P.V.C. flush pipe and spreader for single urinal stall or bowl	124.00	20.40	21.00	59.80	13509
13510	Add to Item 13509 for each additional stall or bowl in a range served from the same cistern	80.10	10.30	10.50	30.60	13510
13511	P.V.C. flush pipe and sparge pipe n.e. 1 m long for single section slab urinal	235.30	25.60	26.20	72.90	13511
13512	Add to Item 13511 for each additional 610 mm width of slab urinal	80.80	8.60	8.70	21.90	13512
13513	Chromium plated copper flush pipe and chromium plated brass spreader for single urinal stall or bowl	210.40	23.70	24.50	65.60	13513
13514	Add to Item 13513 for each additional stall or bowl in a range served from the same cistern	163.90	11.90	12.30	33.60	13514
13515	Chromium plated copper flush pipe and sparge pipe n.e. 1 m long for single section slab urinal	380.40	27.30	28.00	78.70	13515
13516	Add to Item 13515 for each additional 610 mm width of slab urinal	188.70	8.60	8.70	23.30	13516
13517	Grating and waste connection to outlet from urinal channel ditto	109.80	13.60	14.00	44.70	13517
13518	Shower rose comprising galvanized mild steel capped end drilled five times	71.20	8.60	8.70	29.30	13518
13519	75 mm Diameter chromium plated brass shower rose	96.40	8.60	9.60	29.30	13519
13520	150 mm Ditto	126.20	8.60	9.60	29.30	13520
13521	Adjustable swivel pattern chromium plated brass shower rose	142.90	8.60	9.60	29.30	13521

Item	SUNDRY ITEMS				Item	
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
	<i>Each</i>					
13522	Plastic hand spray	73.20	5.40	5.40	12.90	13522
13523	Chromium plated bracket for hand spray including plugging to wall	51.70	9.60	10.80	22.80	13523
13524	15 mm Diameter chromium plated brass flexible tube, 1.20 m long	88.90	6.40	7.20	17.10	13524
13525	Ditto but 1.50 m long	101.60	6.40	7.20	17.10	13525
	UTILITY CONNECTION AND PAVEMENT WORKS					
	Add to either of Items 13001 to 13525 inclusive as appropriate for works carried out in connection with Utility Connection And Pavement Works				15%	

Section 14

GLAZING

GLAZING

SPECIAL CONDITIONS

- Measurement generally**
- I. Glazing works shall be measured the net area as glazed. No deduction shall be made for opening not exceeding 0.50 m².
- Panes of glass of circular or irregular shape shall be measured the smallest rectangular or square out of which such circular or irregular shape can be cut.
- Special glazing works shall only be paid when specifically ordered by Maintenance Surveyor in writing.
- Window and door films shall be measured the net area covered.
- Measurement of cutting**
- II. All finished works shall include for cutting to the required sizes. No measurement shall be made unless the glass is not supplied by the Contractor themselves.
- Forming holes through glass shall be measured separately. In the case of forming hole through existing fixed glass. "Take down and set aside for re-use" and "Fix only" shall be measured separately.
- Forming hole exceeding 0.20 m² through glass shall be measured as straight or circular cutting.
- Rates for glazing generally**
- III. The rates for glazing shall generally include for : -
- (a) Glazing in any size unless otherwise stated and in any positions.
 - (b) All cutting and waste, breakage and replacing scratched or cracked pane.
 - (c) Painting to wood or steel beads and rebate surfaces with one coat of priming paint before glazing.
 - (d) Providing all putty or glazing compound, plastic setting and location blocks, pointing and sealing junctions between glass and glazing beads or the like with approved sealant materials, or in the case of glazing with beads, for taking off and re-fixing wood beads supplied by the joiner or metal beads supplied with metal windows.
 - (e) Painting cut edges of wired glass with bitumastic paint.
 - (f) Protecting and cleaning.
- Rates for glazing of louvre blades**
- IV. The rates for glazing of louvre blades shall further include for : -
- (a) Fixing in adjustable metal clips including adjusting and oiling clips.
 - (b) Fixing in fixed metal clips.
 - (c) Making good surfaces disturbed.
- Rates for "Take out" glass, glass blocks, etc.**
- V. The rates for "Take out and clear away" or "Take out and set aside for re-use" glass or glass blockwork shall further include for : -
- (a) Hacking out old putty and cleaning glass, blockwork and window bead and frames.
 - (b) Protecting and storing glass or blockwork and metal beads.

SPECIAL CONDITIONS (CONT'D)

- VI. The rates for forming holes through glass shall further include for : -
- (a) Cutting holes in any size and polishing all edges.
- (b) Forming holes in any size.
- Rates for forming holes through glass**
- VII. The rates for polycarbonate sheeting shall include for : -
- (a) Polycarbonate sheet in any size unless otherwise stated and in any positions.
- (b) All cutting and waste, breakage and replacing scratched or cracked pane.
- (c) All cold or heat bended to shape and fixing to metal or wood frames.
- (d) Painting to wood or steel beads and rebate surfaces with one coat of priming paint before fixing.
- (e) Providing all putty or glazing compound, pointing approved and sealing junctions between glass and glazing beads or the like with approved sealant materials, or in the case of glazing with beads, for taking off and re-fixing wood beads supplied by the joiner or metal beads supplied with metal windows.
- (f) In the case of fixing to metal or wood frames, drilling holes for and providing all drive screws, self-tapping screws, rivets, bolts, hook, bolts, nuts, metal and rubber washers, and plastic caps for fixing to purlins or framing spaced at any interval.
- (g) Drilling holes to existing or new purlins or framing spaced at any interval the fixing of polycarbonate sheet as required.
- (h) Fixing in accordance with the manufacturer's instructions.
- (i) Protecting and cleaning.
- Rates for polycarbonate sheet**
- VIII. The rates for special glazing shall further include for : -
- (a) Special glazing sheet in any size unless otherwise stated and in any positions.
- (b) All cutting and waste, breakage and replacing scratched or cracked pane.
- (c) Painting to wood or steel beads and rebate surfaces with one coat of priming paint before fixing.
- (d) Providing all necessary glazing compound, pointing and sealing junctions between special glazing sheet and glazing beads or the like with approved sealant materials, or in the case of glazing with beads, for taking off and re-fixing wood beads supplied by the joiner or metal beads supplied with metal windows.
- (e) Fixing in accordance with the manufacturer's instructions.
- (f) Protecting and cleaning.
- Rates for special glazing**

SPECIAL CONDITIONS (CONT'D)

**Rates for glass
block panels**

- IX. The rates for glass block panels shall further include for : -
- (a) Painting all sides of structural opening to receive glass block panels with two coats of bituminous paint.
 - (b) Providing and filling jambs and head of panels with expansion strips, joint filler and sealant.
 - (c) Providing and fixing expanded metal reinforcement, galvanised, weighting not less than 1.6 kg/m² including securing to structure using proprietary fixing components.
 - (d) Bedding and pointing in cement/lime mortar.
 - (e) Supply and installation of glass block panels with panel anchors in accordance with the manufacturer's instructions.
 - (f) In case of fire resisting glass block panels, provide test certificate and manufacturer's guarantee.

**Glass block
panels**

- X. G.S. clauses for glass block panels can be found in the Brickwork and Blockwork Section of the General Specification for Building.

Item	GENERAL GLAZING															Item
	Glass glazing sheet : -	Clear float glass				Figure rolled glass	Reeded glass	Rough cast glass		Wired cast glass	Wired polished plate glass	Float plate glass (Polished plate or float)				
		Thickness (mm)	3	4	5	6	3	3	5	6	6	6	5	6	10	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N		
	<i>Per square metre</i>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
14001	Glass and glazing to wood with putty or to metal with glazing compound.....	75.80	84.30	92.90	101.50	78.40	87.70	104.90	120.10	233.00	445.50	107.50	120.10	178.30	215.40	14001
14002	Ditto but with wood or metal beads.....	94.60	103.70	112.80	120.50	97.20	106.50	124.70	139.10	251.90	464.50	127.40	139.10	199.00	237.00	14002
14003	Add to either of Items 14001 to 14002 if glass, when fixed, is in single pane exceeding 5 m ²	8.70	9.90	11.10	12.30	9.20	10.90	13.30	15.70	36.20	74.90	13.80	15.70	24.90	30.90	14003
14004	Take out and clear away serviceable glass glazed to wood with putty or to metal with glazing compound.....	20.80	22.10	23.30	24.60	20.80	20.80	23.30	24.60	24.60	24.60	23.30	24.60	29.40	31.80	14004
14005	Ditto but with wood or metal beads.....	24.20	25.60	27.00	28.50	24.20	24.20	27.00	28.50	28.50	28.50	27.00	28.50	34.20	37.10	14005
14006	Take out and set aside for re-use serviceable glass glazed to wood with putty or to metal with glazing compound.....	25.40	27.30	29.10	31.00	25.40	25.40	29.10	31.00	31.00	31.00	29.10	31.00	38.40	42.10	14006
14007	Ditto but with wood or metal beads.....	32.50	34.80	37.10	39.40	32.50	32.50	37.10	39.40	39.40	39.40	37.10	39.40	48.70	53.40	14007
14008	Glazing only to wood with putty or to metal with glazing compound.....	27.90	29.90	31.80	33.70	27.90	27.90	31.80	33.70	33.70	33.70	31.80	33.70	41.50	45.30	14008
14009	Ditto but with wood or metal beads.....	46.80	49.20	51.70	52.70	46.80	46.80	51.70	52.70	52.70	52.70	51.70	52.70	62.20	67.00	14009
14010	Add to either of Items 14001 to 14009 inclusive if glazing to fixed sash in position behind guard bars.....	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14010
	<i>Per linear metre</i>															
14011	Straight cutting.....	3.70	4.00	4.30	4.60	3.70	3.70	4.30	4.60	6.90	6.90	4.30	4.60	5.70	6.20	
14012	Circular cutting.....	5.60	6.00	6.30	6.70	5.60	5.60	6.30	6.70	10.00	10.00	6.30	6.70	8.30	9.10	
	<i>Each</i>															
14013	Cutting hole with straight sides n.e. 0.20 m ² through pane of glass.....	10.30	11.10	12.00	12.80	10.30	10.30	12.00	12.80	19.30	19.30	12.00	12.80	16.00	17.40	
14014	Cutting circular or elliptical hole of n.e. 0.20 m ² through pane of glass.....	15.70	16.60	17.70	18.50	15.70	15.70	17.70	18.50	27.70	27.70	17.70	18.50	22.80	25.10	

GLAZING

14001 -14014

Item	GENERAL GLAZING (CONT'D)										Item	
	Glass glazing sheet : -	Tinted glass in any colour			Reflective glass	Obscure glass		Fully tempered glass				
		Thickness (mm)	6	10	12	6	5	6	6	10	12	
			A	B	C	D	E	F	G	H	I	
	<i>Per square metre</i>		\$	\$	\$	\$	\$	\$	\$	\$	\$	
14015	Glass and glazing to wood with putty or to metal with glazing compound.....		150.60	234.10	271.10	272.80	104.90	120.10	182.50	267.30	308.30	14015
14016	Ditto but with wood or metal beads.....		171.00	256.50	294.60	293.20	124.70	140.50	202.90	289.70	331.80	14016
14017	Add to either of Items 14015 to 14016 if glass, when fixed, is in single pane exceeding 5 m ²		21.30	35.00	41.10	43.50	13.30	15.70	27.10	41.10	47.80	14017
14018	Take out and clear away serviceable glass glazed to wood with putty or to metal with glazing compound.....		24.60	29.20	31.80	24.60	23.30	24.60	24.60	29.40	31.80	14018
14019	Ditto but with wood or metal beads.....		28.50	34.20	37.10	28.50	23.30	28.50	28.50	34.20	37.10	14019
14020	Take out and set aside for re-use serviceable glass glazed to wood or metal with glazing compound.....		31.00	38.40	42.10	31.00	29.10	31.00	31.00	38.40	42.10	14020
14021	Ditto but with wood or metal beads.....		39.40	48.70	53.40	39.40	37.10	39.40	39.40	48.70	53.40	14021
14022	Glazing only to wood with putty or to metal with glazing compound.....		33.70	41.50	45.30	33.70	31.80	33.70	33.70	41.50	45.30	14022
14023	Ditto but with wood or metal beads.....		54.10	63.90	68.80	54.10	51.70	54.10	54.10	63.90	68.80	14023
14024	Add to either of Items 14015 to 14023 inclusive if glazing to fixed sash in position behind guard bars.....		14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14024
	<i>Per linear metre</i>											
14025	Straight cutting.....		4.60	5.70	6.20	4.60	4.30	4.60	4.60	5.70	6.20	14025
14026	Circular cutting.....		6.70	8.30	9.10	6.70	6.30	6.70	6.70	8.30	9.10	14026
	<i>Each</i>											
14027	Cutting hole with straight sides n.e. 0.20 m ² through pane of glass.....		12.80	16.00	17.40	12.80	12.00	12.80	12.80	16.00	17.40	14027
14028	Cutting circular or elliptical hole n.e. 0.20 m ² through pane of glass.....		18.50	22.80	25.10	18.50	17.70	18.50	18.50	22.80	25.10	14028

Item	GENERAL GLAZING (CONT'D)	Polycarbonate glazing sheet						Item	
		Thickness (mm)	2	3	5	6	10		12
		A	B	C	D	E	F		
	Polycarbonate glazing sheet : -								
	<i>Per square metre</i>	\$	\$	\$	\$	\$	\$		
14029	Polycarbonate glazing sheet glazed to wood with putty or to metal with glazing compound.....	262.90	366.60	572.80	674.00	1,108.20	1,132.90	14029	
14030	Ditto but with wood or metal beads.....	281.20	385.50	592.70	694.30	1,130.80	1,156.50	14030	
14031	Polycarbonate glazing sheet fixed to wood or metal frames with screws.....	260.60	364.20	569.90	670.80	1,104.30	1,128.50	14031	
14032	Extra over Items 14029 to 14031 inclusive for coloured polycarbonate sheet.....	74.00	80.00	86.80	138.10	180.10	503.00	14032	
14033	Extra over Items 14029 to 14031 inclusive for polycarbonate sheet, when fixed, is in single pane exceeding 5 m ²	21.50	30.80	49.20	58.20	97.00	98.90	14033	
14034	Extra over Items 14029 to 14031 inclusive for polycarbonate with surface hardened treatment sheet.....	134.30	153.50	193.30	215.20	265.80	458.80	14034	
14035	Take out and clear away polycarbonate glazing sheet glazed to wood with putty or to metal with glazing compound.....	19.60	20.80	23.10	24.30	29.10	29.20	14035	
14036	Ditto but with wood or metal beads.....	22.70	24.10	27.00	28.40	34.10	37.10	14036	
14037	Take out and set aside for re-use polycarbonate glazing sheet glazed to wood with putty or to metal with glazing compound.....	23.70	25.40	29.10	31.00	38.40	42.10	14037	
14038	Ditto but with wood or metal beads.....	30.30	34.80	37.10	39.40	48.70	53.40	14038	
14039	Take down and clear away polycarbonate sheet fixed to wood or metal frames with screws.....	22.70	24.10	27.00	28.40	34.10	37.10	14039	
14040	Take out and set aside for re-use polycarbonate sheet fixed to wood or metal frames with screws.....	23.70	25.40	29.10	31.00	38.40	42.10	14040	
14041	Glazing only to wood with putty or to metal with glazing compound.....	72.00	73.90	77.80	79.70	87.40	91.30	14041	
14042	Ditto but with wood or metal beads.....	49.80	52.20	57.10	59.60	69.50	74.40	14042	
14043	Fix only polycarbonate sheet to wood or metal frames with self-tapping screws or hooks.....	29.70	31.40	34.80	36.50	43.40	46.90	14043	
	<i>Per linear metre</i>								
14044	Straight cutting.....	3.40	3.70	4.30	4.60	5.80	6.40	14044	
14045	Circular cutting.....	5.20	6.00	6.30	6.70	8.30	9.10	14045	
	<i>Each</i>								
14046	Cutting hole with straight sides n.e. 0.20 m ² through pane of polycarbonate.....	14.70	16.00	18.70	20.00	25.30	27.60	14046	
14047	Cutting circular or elliptical hole n.e. 0.20 m ² through pane of polycarbonate.....	22.70	25.70	27.40	28.80	35.80	38.70	14047	
14048	Forming speak hole perforations of diameter n.e. 10mm through polycarbonate sheet over an area of overall size n.e. 0.20 m ²	22.50	24.20	28.00	30.20	38.80	40.90	14048	

Item	GENERAL GLAZING (CONT'D)	A \$	Item
	Clear float heat strengthened glass 19mm thick : -		
	<i>Per square meter</i>		
14049	Glass and glazing to wood with putty or to metal with glazing compound.....	649.80	14049
14050	Ditto but with wood or metal beads.....	665.60	14050
14051	Add to either of Items 14049 to 14050 if glass, when fixed, is in single pane exceeding 5m2.....	115.90	14051
14052	Add to either of Items 14049 to 14050 if glass, when fixed, is in single pane exceeding 5m2 and not exceeding 30m2.....	108.70	14052
14053	Add to either of Items 14049 to 14050 if glass, when fixed, is in single pane exceeding 30m2.....	103.90	14053
14054	Take out and clear away serviceable glass glazed to wood with putty or to metal with glazing compound.....	40.20	14054
14055	Ditto but with wood or metal beads.....	47.20	14055
14056	Take out and set aside for re-use serviceable glass glazed to wood with putty or to metal with glazing compound.....	55.00	14056
14057	Ditto but with wood or metal beads.....	69.70	14057
14058	Glazing only to wood with putty or to metal with glazing compound.....	70.20	14058
14059	Ditto but with wood or metal beads.....	86.00	14059
14060	Add to either of Items 14049 to 14059 inclusive if glazing to fixed sash in position behind guard bars.....	14.90	14060
	<i>Per linear meter</i>		
14061	Straight cutting.....	8.20	14061
14062	Circular cutting.....	11.80	14062
	<i>Each</i>		
14063	Cutting holes with straight sides n.e. 0.20 m2 through pane of glass.....	22.80	14063
14064	Cutting circular or elliptical holes n.e. 0.20 m2 through pane of glass.....	32.90	14064

Item	GENERAL GLAZING (CONT'D)							Item	
	Fully tempered glass 19mm thick with heat soak test processes : -							A	
	<i>Per square meter</i>							\$	
14065	Glass and glazing to wood with putty or to metal with glazing compound.....							649.80	14065
14066	Ditto but with wood or metal beads.....							665.60	14066
14067	Add to either of Items 14065 to 14066 if glass, when fixed, is in single pane exceeding 5m2.....							115.90	14067
14068	Add to either of Items 14065 to 14066 if glass, when fixed, is in single pane exceeding 5m2 and not exceeding 30m2.....							108.70	14068
14069	Add to either of Items 14065 to 14066 if glass, when fixed, is in single pane exceeding 30m2.....							103.90	14069
14070	Take out and clear away serviceable glass glazed to wood with putty or to metal with glazing compound.....							40.20	14070
14071	Ditto but with wood or metal beads.....							47.20	14071
14072	Take out and set aside for re-use serviceable glass glazed to wood with putty or to metal with glazing compound.....							55.00	14072
14073	Ditto but with wood or metal beads.....							69.70	14073
14074	Glazing only to wood with putty or to metal with glazing compound.....							70.20	14074
14075	Ditto but with wood or metal beads.....							86.00	14075
14076	Add to either of Items 14065 to 14075 inclusive if glazing to fixed sash in position behind guard bars.....							14.90	14076
	<i>Per linear meter</i>								
14077	Straight cutting.....							8.20	14077
14078	Circular cutting.....							11.80	14078
	<i>Each</i>								
14079	Cutting holes with straight sides n.e. 0.20 m2 through pane of glass.....							22.80	14079
14080	Cutting circular or elliptical holes n.e. 0.20 m2 through pane of glass.....							32.90	14080
	GLASS LOUVRE BLADES								
	Glass louvre blades with ground and arrived edges and fixing to slots in frames or adjustable louvre metal clips (slots or clips measured separately) : -								
				Clear float glass		Rough cast glass	Wired cast glass	Wired polished plate glass	Clear plate glass (polished plate or float)
	Thickness (mm)			4	5	6	6	6	6
	<i>Per linear metre</i>			A	B	C	D	E	F
				\$	\$	\$	\$	\$	\$
14081	Blade 75 mm wide.....			13.60	14.70	15.80	17.20	30.40	46.40
14082	Ditto 100 mm wide.....			15.00	17.30	18.20	20.00	36.80	58.10
14083	Ditto 150 mm wide.....			19.60	21.30	23.00	25.80	48.30	80.10
14084	Take out and set aside for re-use blade 75 mm wide including risk and making good breakages.....			1.80	1.80	1.80	1.80	1.80	1.80
14085	Ditto 100 mm wide.....			1.80	1.80	1.80	1.80	1.80	1.80
14086	Ditto 150 mm wide.....			1.80	1.80	1.80	1.80	1.80	1.80
									14/08

Item	GLASS LOUVRE BLADES (CONT'D)								Item	
									A	
									\$	
14087	Each								1.50	14087
14088	Fix only louvre of any length, width or thickness in slot or clip (measured separately).....								0.70	14088
	POLYCARBONATE SHEET									
	Double layer "Cellular Type" clear UV protection polycarbonate sheet									
	Thickness (mm) overall	4	4.5	6	8	10	16	20	30	
	Approx. weight g/m ²	800	1000	1300	1500	1700	2700	3100	3500	
	Light transmission %	88	88	88	88	88	82	79	82	
	U-value W/m ² K	3.9	3.9	3.7	3.4	3.2	2.9	2.8	2.6	
	Falling dare Gardiner impact at 23°C Nm	21.3	21.3	>27	>27	>27	>27	>27	>27	
	<i>Per square metre</i>	A	B	C	D	E	F	G	H	
		\$	\$	\$	\$	\$	\$	\$	\$	
14089	Polycarbonate sheet fixed to wood or metal frames (measured separately) with screws or metal beads.....	124.00	132.70	154.30	180.40	201.10	260.40	298.30	388.80	14089
14090	Take down and clear away polycarbonate sheet fixed to wood or metal frames with screws or metal beads.....	20.20	20.70	22.30	24.30	27.60	34.30	37.80	44.40	14090
14091	Take down and set aside for re-use polycarbonate sheet fixed to wood or metal frames with screws or metal beads.....	20.70	21.30	23.40	26.00	29.60	38.10	42.80	50.80	14091
14092	Fix only polycarbonate sheet fixed to wood or metal frames with screws or metal beads.....	39.00	41.30	44.00	47.60	52.40	61.60	69.90	80.60	14092
	Triple layer "Cellular Type" clear UV protection polycarbonate sheet									
	Thickness (mm)	16		20						
	Approx. weight g/m ²	2700		3100						
	Light transmission %	82		79						
	U-value W/m ² K	2.4		2.2						
	Falling dare Gardiner impact at 23°C Nm	>27		>27						
	<i>Per square metre</i>	A		B						
		\$		\$						
14093	Polycarbonate sheet fixed to wood or metal frames (measured separately) with screws or metal beads.....	258.10		594.90		14093				
14094	Take down and clear away polycarbonate sheet fixed to wood or metal frames with screws or metal beads.....	34.30		37.80		14094				
14095	Take down and set aside for re-use polycarbonate sheet fixed to wood or metal frames with screws or metal beads.....	38.10		42.80		14095				
14096	Fix only polycarbonate sheet fixed to wood or metal frames with screws or metal beads.....	61.60		69.90		14096				
	Add to Items 14089 and 14093 for bronze and opal white polycarbonate plastic sheet.....								5%	
	Add to Items 14089 and 14093 for coloured polycarbonate plastic other than bronze or opal white.....								15%	

Item	LAMINATED GLASS		Item				
14097	Supply and fix (6 mm float plate glass + 1.52 Pvb. + 6 mm float plate glass) mm thick laminated glass with glazing beads or silicon mastic sealants including drilling holes through the glass (beads and sealants measured separately).....	Clear Float Glass	Colour Tinted				
		A \$	B \$				
		577.30	610.50				
14098	Supply and fix laminated float glass with Pvb inlay with glazing beads or silicon mastic sealants including drilling holes through the glass (beads and sealants measured separately).....	Glass thickness (mm)	6 + 6	8 + 8	8 + 8	10 + 10	12 + 12
		Pvb thickness (mm)	0.76	0.76	1.52	1.52	1.52
		A \$	B \$	C \$	D \$	E \$	
		428.20	532.00	640.70	759.10	880.70	14098
14099	Supply and fix laminated clear tempered glass with Pvb inlay and heat soak test processes with glazing beads or silicon mastic sealants including drilling holes through the glass (beads and sealants measured separately).....	Glass thickness (mm)	6 + 6	8 + 8	10 + 10	12 + 12	
		Pvb thickness (mm)	1.52	1.52	1.52	1.52	
		A \$	B \$	C \$	D \$		
		660.60	803.70	910.10	1,019.60	14099	
	Add to either of Items 14097 to 14099 inclusive for tinted glass in any colour.....					10%	
	Add to either of Items 14097 to 14099 inclusive for sheeting bent to curve to radius n.e. 3.00m.....					20%	
	Add to either of Items 14097 to 14099 inclusive for sheeting bent to curve to radius 3.00 - 15.00m.....					10%	
SPECIAL GLAZING							
14100	7.52 mm thick anti-blasting glazing laminated safety glass.....	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only		
		A \$	B \$	C \$	D \$		
		2,192.20	27.40	41.80	84.90	14100	

Item	SUNDRIES	A \$	Item
	<i>Per square metre</i>		
14101	Grind surface of sheet glass (any size).....	82.30	14101
14102	Hack out old broken glass (any type and thickness) from wood or metal sash glazed with putty, glazing compound or beads, set aside beads for re-use if any, clean and prepare rebates for re-glazing (re-glazing measured separately).....	36.10	14102
	<i>Per linear metre</i>		
14103	Grind and round edge of glass (any type and thickness).....	15.00	14103
14104	Bed edge of glass (any type and thickness) in and including strip of wash leather or approved felt or plastic.....	10.30	14104
	<i>Each</i>		
14105	Grind recess of any size in pane of glass (as for sliding doors to hatches).....	15.00	14105
	<i>Per linear metre</i>		
14106	Point and seal joint between glass and beads, window frames and the like with 3 x 3 mm silicon mastic sealant.....	2.50	14106
14107	Ditto but with 3 x 6 mm silicon mastic sealant.....	3.80	14107
	GLASS BLOCK PANELS		
	Hollow glass blocks size: 150 x 150 - 250 x 250 mm square and 80 - 120 mm thick in any pattern and colour and including all special blocks at junctions, corners and the like bedded and jointed in cement/lime mortar and pointed both sides with white cement or white cement/lime mortar : -		
	<i>Per square metre</i>		
14108	Glass block panel.....	866.20	14108
14109	Take down and clear away glass block panel.....	30.00	14109
14110	Take down and set aside for re-use glass block panel.....	75.90	14110
14111	Lay only glass block panel.....	120.50	14111
	<i>Each</i>		
14112	Cut out existing defective glass block in isolated patches n.e. 10 glass blocks, fill up, joint in and replace with new glass block and make good (each glass block measured).....	53.80	14112

Item	FIRE RESISTING GLASS BLOCK PANELS	Fire rated period			Item	
	Fire resisting hollow glass blocks size: 150 x 150 - 250 x 250 mm square and 80 - 120 mm thick in any pattern and colour and including all special blocks at junctions, corners and the like bedded and jointed : -	½ Hour	1 Hour	1½ Hour		
	<i>Per square metre</i>	A \$	B \$	C \$		
14113	Fire resisting glass block panels.....	4,388.20	6,101.50	8,815.20	14113	
14114	Take down and clear away fire resisting glass block panels including corner glass blocks.....	30.00	30.00	30.00	14114	
14115	Take down and set aside for re-use fire resisting glass block panels including corner glass blocks.....	75.90	75.90	75.90	14115	
14116	Lay only fire resisting glass block panels including corner glass blocks.....	228.10	370.50	370.50	14116	
	MIRRORS					
	Glass mirror silver backed and painted with two coats of shellac varnish after silvering, bevel edged, if required, and fixed with chromium plated clips or screws with chromium plated clip-on heads, including drilling mirror and screwing clips or screws to backing or plugging and screwing the same to wall : -					
	<i>Per square metre</i>					
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
14117	6 mm silvering quality polished plate glass mirror.....	221.50	7.70	17.20	47.20	14117
					Supply and fix	
					A \$	
14118	600 mm (minimum) diameter convex mirror including brackets, mounting poles, visors, bolts, screws and the like, and drilling or cutting mortices in concrete or other surfaces, grouting and make good.....				885.60	14118
14119	6 mm thick single side reflective mirror, size 2400 x 1500 mm fixed to wood or metal frames (measured separately) with screws or metal beads.....				446.80	14119
	WINDOW AND DOOR FILMS					
	<i>Per square metre</i>					
14120	"3M" Scotchtint window and door films:- Sun control film model : NV25/NV35.....				238.49	14120
14121	"3M Scotchshield" window and door films, model : SCLARL400.....				416.00	14121
14122	Ditto but model : SCLARL150.....				314.00	14122
14123	"3M" Scotchtint window and door films model : P18ARL.....				274.70	14123
14124	"V-KOOL" window and door films model: A20.....				338.10	14124
14125	Ditto but model : H20.....				338.10	14125
14126	Ditto but model : T35.....				338.10	14126
14127	Ditto but model: Safety & Security L2-mil.....				338.10	14127
14128	Ditto but model : Safety & Security L4-mil.....				458.90	14128
14129	Take down and clear away window and door films and safety and security films.....				56.60	14129

Section 15

PAINTING

PAINTING

SPECIAL CONDITIONS

New surfaces and redecoration	I.	Painting of any type shall only be measured as on “new surfaces” when a complete wall face, door, frame or other area is of new or previously undecorated materials, or has been completely stripped of existing decoration. Where patches of new plaster occur within an area of existing plaster or portions of paintwork has been stripped off and stopped or portions only of metal or woodwork insert in repairs, the painting to the complete area shall be measured as “redecoration”.												
Surfaces described as walls and soffits	II.	Surfaces described as “walls and soffits” include all vertical, horizontal, sloping or curved walls, columns, soffits of slabs, beams, cills and the like, of concrete, brick, clay or concrete block, mason, or smooth or rough plastered or rendered, or unplastered or unrendered surface of any type, regardless of texture or porosity.												
Measurement generally	III.	<p>All works shall be measured the net area as painted. No deduction shall be made for voids not exceeding 0.50m².</p> <p>Surfaces to be painted exceeding 300 mm or pipework exceeding 300 mm nominal diameter shall be measured as general surfaces.</p> <p>Articles not exceeding 0.30 m² each where not in conjunction with surrounding painted work shall be measured separately. Articles exceeding 0.30 m² shall be measured as general surfaces.</p> <p>Allowance shall be made for the measurements of walls and soffits for additional area of moulded or carved work and the like.</p>												
Measurement of certain specific items	IV.	<p>Certain specific items shall be measured as follows : -</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">Chinese roof tiling, corrugated or profiled sheeting.</td> <td style="width: 50%; vertical-align: top;">Measured flat overall. Girth on rolls, corrugations or profiles and the like shall be held to be included in the items.</td> </tr> <tr> <td style="vertical-align: top;">Metal work - glazed windows and doors, grilles, panelled doors and the like.</td> <td style="vertical-align: top;">Measured flat overall on both sides. Opening edges and all surfaces of frames, mullions, transoms, cills and the like shall be held to be included in the items.</td> </tr> <tr> <td style="vertical-align: top;">Metal work - mesh covered or ornamental fencing, balustrades, railings, gates and the like.</td> <td style="vertical-align: top;">Measured flat overall on both sides. All surfaces of frames, posts, braces, rails and the like shall be held to be included in the items.</td> </tr> <tr> <td style="vertical-align: top;">Manhole covers and frames, tree grilles, channel covers and the like.</td> <td style="vertical-align: top;">Measured flat overall on both sides.</td> </tr> <tr> <td style="vertical-align: top;">Wood sashes, glazed wooden doors, windows, partitions, panels, decorating or grilled panels and the like.</td> <td style="vertical-align: top;">Measured flat overall on both sides. Opening edges and all surfaces of frames, mullions, transoms, cills and the like shall be held to be included in the items.</td> </tr> <tr> <td style="vertical-align: top;">Wire mesh or mosquito gauge panels.</td> <td style="vertical-align: top;">Measured flat on both sides for individual construction. Painting shall be deemed to be included in the sashes, doors, partitions or panels if it forms part of the construction.</td> </tr> </table>	Chinese roof tiling, corrugated or profiled sheeting.	Measured flat overall. Girth on rolls, corrugations or profiles and the like shall be held to be included in the items.	Metal work - glazed windows and doors, grilles, panelled doors and the like.	Measured flat overall on both sides. Opening edges and all surfaces of frames, mullions, transoms, cills and the like shall be held to be included in the items.	Metal work - mesh covered or ornamental fencing, balustrades, railings, gates and the like.	Measured flat overall on both sides. All surfaces of frames, posts, braces, rails and the like shall be held to be included in the items.	Manhole covers and frames, tree grilles, channel covers and the like.	Measured flat overall on both sides.	Wood sashes, glazed wooden doors, windows, partitions, panels, decorating or grilled panels and the like.	Measured flat overall on both sides. Opening edges and all surfaces of frames, mullions, transoms, cills and the like shall be held to be included in the items.	Wire mesh or mosquito gauge panels.	Measured flat on both sides for individual construction. Painting shall be deemed to be included in the sashes, doors, partitions or panels if it forms part of the construction.
Chinese roof tiling, corrugated or profiled sheeting.	Measured flat overall. Girth on rolls, corrugations or profiles and the like shall be held to be included in the items.													
Metal work - glazed windows and doors, grilles, panelled doors and the like.	Measured flat overall on both sides. Opening edges and all surfaces of frames, mullions, transoms, cills and the like shall be held to be included in the items.													
Metal work - mesh covered or ornamental fencing, balustrades, railings, gates and the like.	Measured flat overall on both sides. All surfaces of frames, posts, braces, rails and the like shall be held to be included in the items.													
Manhole covers and frames, tree grilles, channel covers and the like.	Measured flat overall on both sides.													
Wood sashes, glazed wooden doors, windows, partitions, panels, decorating or grilled panels and the like.	Measured flat overall on both sides. Opening edges and all surfaces of frames, mullions, transoms, cills and the like shall be held to be included in the items.													
Wire mesh or mosquito gauge panels.	Measured flat on both sides for individual construction. Painting shall be deemed to be included in the sashes, doors, partitions or panels if it forms part of the construction.													

SPECIAL CONDITIONS (CONT'D)

IV.	Jalousies, louvre panels and the like.	Measured flat on both sides for individual construction.	Measurement of certain specific items (cont'd)
		Painting shall be deemed to be included in the sashes, doors, partitions or panels if it forms part of the construction.	
	Collapsible gates	Measured flat overall on both sides.	
		All surfaces of frames, guide and track shall be held to be included in the item.	
	Nuts, bolts, locks, brackets, staples, knobs, access panels, switch and cover plates and the like less than 0.30 m ² each and isolated lengths of pipe or rod less than 300 mm long	Measured separately if it is isolated from the surrounding work.	
V.	Throughout this Section, rates for all types of painting shall include all kinds of preparatory work. No payment will be made for stripping of existing decoration under any circumstances, with the following exceptions : -		Measurement of stripping of existing decorative material
	(a) Stripping of existing decorative material is specifically ordered by the Maintenance Surveyor in writing and there will be no further decorative material applied on the prepared surface.		
	Stripping of existing decoration shall be measured the net area of existing decoration to be stripped. No deduction shall be made for voids not exceeding 0.50m ² .		
VI.	Paper hanging shall be measured the net area covered. No deduction shall be made for voids not exceeding 0.50m ² .		Measurement of paper hanging
VII.	Writing of letters, numbers or Chinese characters shall include for all full stops and commas. No separate payment shall be made. All punctuation excluding full stops and commas shall be treated as letters. Logos, features, symbols and the like shall be measured as Chinese characters of the same size.		Measurement of writing
VIII.	The rates for painting shall generally include for : -		Rates for painting generally
	(a) Execution of work either internally or externally and in any position at any height.		
	(b) Working to flat, curved or sloping surfaces.		
	(c) All preparation work to surfaces as G.S. Items 21.45 and 21.48.		
	(d) Mixing and applying as G.S. Item 21.53.		
	(e) Multi-coloured work and cutting to line.		
	(f) Painting on associated beads, hinges and other fittings, brackets, bolts, lugs and the like (unless isolated from other paintwork which will be measured separately).		
	(g) All identification of pipelines as G.S. Item 21.78.		
	(h) Keeping adjacent surfaces clean and painting surfaces disturbed as G.S. Item 21.44.		
	(i) Removing all articles of ironmongery, hardware and the like before painting and replacing after painting has been completed.		
	(j) Rubbing down smooth with sand paper on hardened coatings before the subsequent coating is applied.		

SPECIAL CONDITIONS (CONT'D)

Rates for painting generally (cont'd)	VIII.	(k)	Painting sample panels as required.
		(l)	Touching up coated surfaces on completion as required.
		(m)	Protecting and cleaning as G.S. Item 21.43.
		(n)	Removing painted sample panels.
		(o)	Submission of samples, test certificates and manufacturer's guarantee.
		(p)	On-site checking, quality tests and surveillance tests.
Rates for paintwork on new surfaces	IX.		The rates for paintwork on new surfaces shall further include for : -
		(a)	All preparation work to new surfaces as G.S. Item 21.46.
Rates for paintwork on existing surfaces	X.		The rates for paintwork on existing surfaces shall further include for : -
		(a)	All preparation work to existing surfaces as G.S. Items 21.48 and 21.49.
Rates for painting metal windows and doors	XI.		The rates for painting metal windows and doors shall further include for : -
		(a)	Painting opening edges and all surfaces of frames, mullions, transoms, cills, guard bars, glazing beads and the like.
		(b)	Sealing putty with primer and paint as required.
Rates for painting wire mesh, expanded metal mesh, chain link and the like in gates, fencing, etc.	XII.		The rates for painting wire mesh, expanded metal mesh, chain link and the like in gates, fencing, guards, door and partition panels, etc. shall further include for : -
		(a)	Painting edge framing, posts, braces, rails and the like.
Rates for painting wood	XIII.		The rates for painting general surfaces of wood including wood panels and flush doors, wood sashes, wood partitions, etc. shall further includes for : -
		(a)	Painting opening edges, mouldings, glazing beads and the like.
Rates for painting jalousies, louvre panels, etc.	XIV.		The rates for painting jalousies, louvre panels in doors and the like shall further include for : -
		(a)	Painting all frames, styles, rails, edges, louvre blades and the like.
Rates for proprietary floor coating system	XV.		The rates for proprietary floor coating system shall further included for :-
		(a)	All preparation work to existing surfaces as recommended by the manufacturer.
		(b)	Repairing minor cracks and voids to the substrate with approved proprietary materials.
		(c)	Multi-coloured work and cutting to line.
		(d)	Keeping adjacent surfaces clean.
		(e)	Removing all articles of hardware and the like before painting and re-fixing after painting has been completed.
		(f)	Providing sample panels as required.

SPECIAL CONDITIONS (CONT'D)

XV.	<ul style="list-style-type: none"> (g) Touching up coated surfaces on completion as required. (h) Protecting and cleaning. (i) Removing sample panels. (j) Submission of samples, test certificates and manufacturer's guarantee. 	Rates for proprietary floor coating system (cont'd)
XVI.	<p>The rates for surface protection to structural steel shall further include for any combination of the following where applicable : -</p> <ul style="list-style-type: none"> (a) All preparation work to new surfaces as G.S. Item 15.37. (b) All preparation work to existing surfaces as G.S. Item 15.38. (c) Painting to all joints as G.S. Item 15.40. (d) Making good damaged galvanised coating as G.S. Item 15.39. 	Rates for surface protection to structural steel
XVII.	<p>The rates for intumescent paint to structural steel surfaces shall further include for : -</p> <ul style="list-style-type: none"> (a) All preparation work to existing surfaces as recommended by the manufacturer. (b) Painting all surfaces with an approved primer. (c) Test certificates and manufacturer's guarantee. (d) Application by an approved applicator including submission of technical literatures, method statement etc. including provision of a warranty for the period as required by the Maintenance Surveyor or as stated in the Contract. (e) Keeping adjacent surfaces clean. (f) Removing all articles of hardware and the like before painting and re-fixing after painting has been completed. (g) Providing sample panels as required. (h) Touching up coated surfaces on completion as required. (i) Protecting and cleaning. (j) Removing sample panels. 	Rates for intumescent paint to structural steel surfaces
XVIII.	<p>The rates for proprietary paintwork system to existing sport hall flooring system shall further include for : -</p> <ul style="list-style-type: none"> (a) All preparation work to existing surfaces as recommended by the manufacturer. (b) Removing all articles of hardware and the like before paint and re-fixing after painting has been completed. (c) Painting sample panels as required. (d) Keeping adjacent surfaces clean and painting surfaces disturbed as G.S. Item 21.44. (e) Touching up coated surfaces on completion as required. (f) Protecting and cleaning as G.S. Item 21.43. 	Rates for proprietary paintwork system to existing sport hall flooring system

SPECIAL CONDITIONS (CONT'D)

- | | | |
|---|--------|--|
| Rates for proprietary paintwork system to existing sport hall flooring system (cont'd) | XVIII. | (g) Test certificates and manufacturer's guarantee of a minimum of two years.

(h) Application by an approved applicator including submission of technical literatures, method statement etc. including provision of a warranty for the period as required by the Maintenance Surveyor or as stated in the Contract. |
| Rates for line marking to sport hall flooring system | XIX. | The rates for line marking sport hall flooring system shall further include for : -

(a) All preparation work to existing surfaces or finished surfaces as recommended by the manufacturer.

(b) Removing all articles of hardware and the like before paint and re-fixing after painting has been completed.

(c) Painting sample panels as required.

(d) Keeping adjacent surfaces clean and painting surfaces disturbed as G.S. Item 21.44.

(e) Touching up coated surfaces on completion as required.

(f) Protecting and cleaning as G.S. Item 21.43.

(g) Test certificates and manufacturer's guarantee of a minimum of two years.

(h) Application by an approved applicator including submission of technical literatures, method statement etc. including provision of a warranty for the period as required by the Maintenance Surveyor or as stated in the Contract. |
| Rates for stripping of existing decoration | XX. | The rates for stripping of existing decoration shall further include for : -

(a) Preparing surfaces as G.S. Item 21.48 after stripping the existing decoration. |
| Rates for road marking materials | XXI. | The rates for road marking materials shall further include for : -

(a) All preparation work to new or existing surfaces as G.S. Item 21.71.

(b) Marking out to the required size and styles as ordered by the Maintenance Surveyor.

(c) Executing work at specific time to avoid disturbance to public and traffic, and provision of temporary lighting and traffic diversion arrangement when required.

(d) Testing of road marking materials, if required.

(e) Submission of samples and test certificate as G.S. Item 21.75. |
| Rates for writing, line marking, etc. | XXII. | The rates for painting lines, letters, characters, numbers, logos, symbols and the like shall further include for : -

(a) Marking out to the required size and styles.

(b) Setting out and paint all line marking to the required standards. |

SPECIAL CONDITIONS (CONT'D)

XXIII.	The rates for paper hanging shall further include for : -	Rates for paper hanging
	(a) Execution of work internally and in any position at any height.	
	(b) Working to flat, curved or sloping surfaces.	
	(c) Preparing new or existing decorated surfaces.	
	(d) All necessary cleaning and preparation of substrate including applying skim coat prior to hanging wall paper covering.	
	(e) All straight, raking or circular cutting.	
	(f) All cutting and waste and adhesive as required.	
	(g) Fixing in pattern as required.	
	(h) Fixing and fitting around holes and openings, pipes, switches, brackets and the like.	
	(i) Bonding to match existing works.	
	(j) Submission of samples and mock-up if required.	
	(k) Protecting and covering up as required.	
XXIV.	When the Contractor is required to carry out proprietary painting items 15224 to 15244 [Columns (A) and (B)] inclusive for the Complete External Painting works, the rates of these items are deemed to include for the provision of a four-year warranty .	Rates for proprietary paintwork system
XXV.	When the Contractor is required to carry out painting works with the use of low Volatile Organic Compound (VOC) paint, the rates for all the relevant paint items shall further include for : -	Rates for low Volatile Organic Compound (VOC) paint
	(a) All preparation work to the surfaces as recommended by the paint manufacturer.	
	(b) Painting all surfaces with an approved primer.	
	(c) Test certificate and manufacturer's guarantee.	
XXVI.	The rates for re-enamel on bath tub shall include for : -	Rates for re-enamel on bath tub
	(a) Cleaning and touch up existing surfaces of bath tub.	
	(b) Different colour of paint.	
	(c) Each bath tub ordered without any adjustment for minimum order.	
	(d) Protection of adjacent surfaces and make good all works damaged and disturbed.	
	(e) The provision of a one-year warranty.	

Item	LIMEWASH				Item	
	Prepare and apply limewash to the following surfaces : -	New surfaces		Redecoration		
		Two coats	One coat	Two coats		
	<i>Per square metre</i>	A \$	B \$	C \$		
15001	Walls and soffits.....	19.20	14.20	21.80		15001
15002	Profiled compressed particle sheeting.....	25.30	18.80	28.80		15002
	EMULSION PAINT	New surfaces		Redecoration		
	Prepare and apply emulsion paint to the following surfaces : -	One thinned coat and two full coats	Water based lime resistant primer and two full coats	One full coat	Two full coats	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
15003	Walls and soffits.....	42.60	46.30	21.60	36.30	15003
15004	Extra over Item 15003 for moulded enriched surface picked out in one or more different colours from general surface.....	18.10	19.80	7.30	13.90	15004
15005	Grille block wall of any thickness including painting into recesses.....	68.30	74.30	33.50	57.20	15005
15006	Soft or hard fibre board, insulating board, acoustic tiles and similar surfaces.....	44.40	48.30	21.50	37.00	15006
15007	Profiled compressed particle sheeting.....	55.70	60.60	27.50	46.70	15007
	ANTI-MOULD ACRYLIC EMULSION PAINT	New surfaces		Redecoration		
	Prepare and apply anti-mould acrylic emulsion paint to the following surfaces : -	One thinned coat and two full coats	Water based lime resistant primer and two full coats	One full coat	Two full coats	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
15008	Walls and soffits.....	46.70	49.40	23.10	39.30	15008
15009	Extra over Item 15008 for moulded enriched surface picked out in one or more different colours from general surface	15.10	16.50	6.00	11.50	15009
15010	Grille block wall of any thickness including painting into recesses.....	76.50	80.30	36.50	63.20	15010
15011	Soft or hard fibre board, insulating board, acoustic tiles and similar surfaces	48.80	51.40	23.10	40.20	15011
15012	Profiled compressed particle sheeting.....	62.90	65.80	30.10	51.90	15012

Item	TEXTURED EMULSION PAINT					Item
	Prepare and apply textured emulsion paint on the following surfaces : -	New surfaces		Redecoration		
		One thinned coat and two full coats	Water based lime resistant primer and two full coats	One full coat	Two full coats	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
15013	Walls and soffits.....	45.80	49.20	22.90	38.70	15013
15014	Grille block wall of any thickness including painting into recesses	68.80	75.30	32.80	56.70	15014
15015	Profiled compressed particle sheeting.....	60.20	64.30	29.20	50.00	15015
	CEMENT PAINT	New surfaces		Redecoration		
	Prepare and apply cement paint on the following surfaces : -	Two coats	One coat	Two coats		
	<i>Per square metre</i>	A \$	B \$	C \$		
15016	Walls and soffits.....	37.10	24.30	41.70		15016
15017	Grille block wall of any thickness including painting into recesses.....	63.00	39.60	69.50		15017
15018	Chinese roof tiling.....	66.40	41.20	71.30		15018
	EXTERNAL TEXTURED PAINT	New surfaces		Redecoration		
	Prepare and apply external textured paint to the following surfaces : -	Two coats	One coat	Two coats		
	<i>Per square metre</i>	A \$	B \$	C \$		
15019	Walls and soffits.....	49.20	30.50	53.90		15019
15020	Grille block wall of any thickness including painting into recesses.....	84.50	49.60	90.50		15020
15021	Chinese roof tiling.....	89.60	53.00	96.40		15021
15022	Profiled compressed particle sheeting.....	71.30	43.10	77.30		15022

Item	MULTI-COLOUR PAINT			Item		
	Prepare and apply multi-colour paint to the following surfaces by spraying : -	New surfaces	Redecoration			
		One coat primer, one binder coat and one finishing coat	One binder coat and one finishing coat			
	<i>Per square metre</i>	A \$	B \$			
15023	Walls and soffits.....	89.20	76.10	15023		
	<i>Per linear metre</i>					
15024	Surfaces n.e. 150 mm girth.....	12.70	10.20	15024		
15025	Ditto but 150 - 300 mm girth.....	24.60	20.60	15025		
	SYNTHETIC PAINT					
	Prepare and apply synthetic paint to the following surfaces : -	New surfaces	Redecoration			
		Alkali resisting primer, one under-coat and one finishing coat	Sealer, one under-coat and one finishing coat	One under-coat and one finishing coat		
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
15026	Walls and soffits.....	51.70	50.60	27.80	43.60	15026
15027	Soft or hard fibre board, insulating board, acoustic tiles and similar surfaces.....	54.30	53.00	27.60	44.30	15027
15028	Profiled compressed particle sheeting.....	67.60	65.70	33.80	54.20	15028
	<i>Per linear metre</i>					
15029	Surface n.e. 150 mm girth.....	4.40	4.30	2.40	3.80	15029
15030	Ditto but 150 - 300 mm girth.....	13.10	12.80	6.80	10.80	15030

Item	POLYURETHANE PAINT				Item
	Prepare and apply polyurethane paint to the following surfaces :-	New Surfaces	Redecoration		
		One coat primer, one undercoat and one finishing coat	One finishing coat	One undercoat and one finishing coat	
	<i>Per square metre</i>	A \$	B \$	C \$	
15031	Walls and soffits.....	66.50	34.40	56.90	15031
15032	Grille block wall of any thickness including painting into recesses.....	112.60	51.80	90.40	15032
15033	Profiled compressed particle sheeting.....	96.10	45.40	77.40	15033
15034	Concrete paving, kerb stones and the like.....	64.10	33.80	55.80	15034
	COLD CURE EPOXY PAINT	New surfaces	Redecoration		
	Prepare and apply cold cure epoxy paint (coloured) to the following surfaces :-	One undercoat and one finishing coat	One finishing coat	One undercoat and one finishing coat	
	<i>Per square metre</i>	A \$	B \$	C \$	
15035	Walls and soffits.....	56.60	39.60	66.10	15035
15036	Grille block wall of any thickness including painting into recesses.....	96.80	60.60	106.80	15036
15037	Profiled compressed particle sheeting.....	81.30	53.10	91.60	15037
	<i>Per linear metre</i>				
15038	Surfaces n.e. 150 mm girth.....	4.70	3.30	5.50	15038
15039	Ditto but 150 - 300 mm girth.....	13.80	9.50	15.90	15039
	GRANITE COATING	New surfaces	Redecoration		
	Prepare and apply 2 mm thick spray granite coating system to the following surfaces :-	A \$	B \$		
	<i>Per square meter</i>				
15040	Walls and soffits.....		251.20	263.80	15040
15041	Grille block wall of any thickness including painting into recesses.....		288.90	303.50	15041
15042	Masonry walls.....		288.90	303.50	15042

Item	WATER-BASED PAINT IN SLOPEWORK			Item		
	Prepare and spray water-based paint (any colour) to : -	New surfaces	Redecoration			
		One under-coat and one finishing coat	One finishing coat	One under-coat and one finishing coat		
	<i>Per square metre</i>	A \$	B \$	C \$		
15043	Sprayed concrete surfaces on slopes.....	97.70	62.60	103.80	15043	
	Add to either of Items 15001 to 15043 inclusive for all internal flat and non-flat paint applied to walls and soffits if Low VOC paint is specified			20%		
	Add to either of Items 15001 to 15043 inclusive for all external flat and non-flat paint applied to walls and soffits if Low VOC paint is specified			25%		
	SYNTHETIC PAINT ON METAL WORK					
	Prepare and apply synthetic paint to the following metal work : -	New surfaces		Redecoration		
		Primer only (No subsequent paint to be applied)	Primer, two under-coats and one finishing coat	One finishing coat	One under-coat and one finishing coat	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
15044	General surfaces.....	17.40	60.20	27.40	41.70	15044
15045	Glazed windows, doors and the like.....	18.40	82.70	37.40	58.70	15045
15046	Wire mesh, expanded metal mesh, chain link, railings, balustrades and the like.....	17.70	62.10	30.60	47.20	15046
15047	Surfaces of corrugated or profiled sheeting	22.50	68.50	30.80	46.00	15047
15048	Surfaces of collapsible gate.....	25.90	110.30	46.50	74.60	15048
15049	Jalousies, louvre panels and the like with fixed or moveable louvres.....	23.60	93.00	39.20	62.40	15049
	<i>Per linear metre</i>					
15050	Surfaces n.e. 150 mm girth.....	2.50	7.70	3.70	5.90	15050
15051	Ditto but 150 - 300 mm girth.....	5.00	17.40	7.30	11.40	15051
15052	Pipe n.e. 55 mm nominal diameter.....	3.70	10.00	4.90	7.70	15052
15053	Ditto but 55 - 110 mm nominal diameter.....	7.20	29.50	12.50	20.00	15053
15054	Ditto but 110 - 300 mm nominal diameter.....	13.40	48.90	21.90	33.80	15054
15055	Eaves gutter of any type, inside and outside n.e. 600 mm total girth, including cleaning out and making good joints in red lead	46.70	74.10	53.20	62.20	15055
	<i>Each</i>					
15056	Small isolated article n.e. 0.30 m ²	5.60	20.90	8.20	13.30	15056
15057	W.C. cistern including brackets.....	9.40	32.30	12.60	20.30	15057
15058	Rainwater or waste head of any size, inside and outside, including cleaning out.....	42.70	65.60	47.80	55.40	15058

Item	METALLIC PAINT ON METAL WORK					Item	
Prepare and apply metallic paint (bright or bronze finish) on the following metal work : -							
		New Surfaces		Redecoration			
		Primer only (No subsequent paint to be applied)	Primer, two under-coats and one finishing coat	One finishing coat	One under-coat and one finishing coat	Two under-coats and one finishing coat	
		A	B	C	D	E	
		\$	\$	\$	\$	\$	
<i>Per square metre</i>							
15059	General surfaces.....	17.40	71.10	32.40	49.10	66.10	15059
15060	Glazed windows, doors and the like.....	18.40	85.40	38.30	60.60	80.60	15060
15061	Wire mesh, expanded metal mesh, chain link, railings, balustrades and the like.....	17.70	72.10	32.20	50.40	67.30	15061
15062	Surfaces of corrugated or profiled sheeting.....	22.50	82.80	39.90	55.70	74.70	15062
15063	Surfaces of collapsible gate.....	25.90	119.60	49.70	80.30	109.50	15063
15064	Jalousies, louvre panels and the like with fixed or moveable louvres.....	23.60	105.80	43.50	71.00	96.40	15064
<i>Per linear metre</i>							
15065	Surfaces n.e. 150 mm girth.....	2.50	8.60	3.90	6.50	8.60	15065
15066	Ditto but 150 - 300 mm girth.....	5.00	19.90	8.10	13.10	17.70	15066
15067	Pipe n.e. 55 mm nominal diameter.....	3.70	11.50	5.40	8.60	11.60	15067
15068	Ditto but 55 - 110 mm nominal diameter.....	7.20	33.60	13.90	22.70	30.80	15068
15069	Ditto but 110 - 300 mm nominal diameter.....	13.40	57.10	24.50	39.20	52.80	15069
15070	Eaves gutter of any type, inside and outside n.e. 600 mm total girth, including cleaning out and making good joints in red lead	46.70	80.90	55.40	66.60	77.20	15070
<i>Each</i>							
15071	Small isolated article n.e. 0.30 m ²	5.60	22.60	9.30	15.60	21.30	15071
15072	W.C. cistern including brackets.....	9.40	37.90	14.40	24.00	32.90	15072
15073	Rainwater or waste head of any size, inside and outside, including cleaning out.....	45.00	73.40	49.90	59.40	68.30	15073

Item	HEAT RESISTING PAINT ON METAL WORK					Item	
	Prepare and apply heat resisting paint on the following metal work :-						
		New Surfaces		Redecoration			
		Primer only (No subsequent paint to be applied)	Primer, two under-coats and one finishing coat	One finishing coat	One under-coat and one finishing coat	Two under-coats and one finishing coat	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	E \$	
15074	General surfaces.....	23.60	87.50	35.40	56.80	77.00	15074
	<i>Per linear metre</i>						
15075	Surfaces n.e. 150 mm girth.....	3.00	9.80	4.20	7.00	9.50	15075
15076	Ditto but 150 - 300 mm girth.....	6.40	23.50	9.10	14.80	20.10	15076
15077	Pipe n.e. 55 mm nominal diameter.....	4.50	13.50	5.90	9.50	13.00	15077
15078	Ditto but 55 - 110 mm nominal diameter.....	9.50	39.60	15.50	25.60	34.80	15078
15079	Ditto but 110 - 300 mm nominal diameter.....	18.00	68.90	27.70	44.80	60.70	15079
	<i>Each</i>						
15080	Small isolated article n.e. 0.30 m ²	7.50	27.50	10.60	17.90	24.50	15080
	CHEMICAL RESISTING PAINT ON METAL WORK						
	Prepare and apply chemical resisting paint on the following metal work :-						
	<i>Per square metre</i>						
15081	General surfaces.....	25.50	89.50	35.40	56.80	77.00	15081
	<i>Per linear metre</i>						
15082	Surfaces n.e. 150 mm girth.....	3.10	9.90	4.20	7.00	9.50	15082
15083	Ditto but 150 - 300 mm girth.....	6.80	23.90	9.10	14.80	20.10	15083

Item	BLACK ENAMEL PAINT ON METAL WORK				Item
	Prepare and apply black enamel paint on the following metal work :-	New surfaces		Redeco- ration	
		Primer only (No subse- quent paint to be applied)	Primer and one coat	One coat	
	<i>Per square metre</i>	A \$	B \$	C \$	
15084	General surfaces.....	17.40	32.90	27.70	15084
	<i>Per linear metre</i>				
15085	Surfaces n.e. 150 mm girth.....	2.50	6.30	4.80	15085
15086	Ditto but 150 - 300 mm girth.....	5.00	10.50	8.40	15086
	<i>Each</i>				
15087	Small isolated article n.e. 0.30 m ²	5.60	11.30	8.30	15087
	NON-TOXIC PAINT ON METAL WORK				
	Prepare and apply non-toxic paint on the following metal work :-				
	<i>Per square metre</i>				
15088	General surfaces.....	17.40	63.70	63.30	15088
15089	Surfaces of corrugated or profiled sheeting.....	22.50	82.80	74.70	15089
	<i>Per linear metre</i>				
15090	Surfaces n.e. 150 mm girth.....	2.50	8.00	6.70	15090
15091	Ditto but 150 - 300 mm girth.....	5.00	17.30	15.20	15091
15092	Eaves gutter of any type, inside and outside n.e. 600 mm total girth, including cleaning out and making good joints in approved non-toxic mastic	46.70	75.70	72.00	15092

Item	POLYURETHANE PAINT ON METAL WORK					Item
	Prepare and apply polyurethane paint (coloured) on the following metal work : -	New surfaces		Redecoration		
		Primer only (No subsequent paint to be applied)	Primer, one under-coat and one finishing coat	One finishing coat	One under-coat and one finishing coat	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per square metre</i>					
15093	General surfaces.....	17.40	57.40	32.70	52.20	15093
15094	Glazed windows, doors and the like.....	18.40	66.10	38.60	61.30	15094
15095	Wire mesh, expanded metal mesh, chain link, railings, balustrades and the like.....	17.70	58.00	33.50	53.10	15095
	<i>Per linear metre</i>					
15096	Surfaces n.e. 150 mm girth.....	2.50	7.60	4.00	6.30	15096
15097	Ditto but 150 - 300 mm girth.....	5.00	15.90	8.50	13.80	15097
15098	Pipe n.e. 55 mm nominal diameter.....	3.70	10.70	5.50	8.90	15098
15099	Ditto but 55 - 110 mm nominal diameter.....	7.20	26.60	14.40	23.80	15099
15100	Ditto but 110 - 300 mm nominal diameter.....	13.40	45.80	25.20	40.90	15100
	<i>Each</i>					
15101	Small isolated article n.e. 0.30 m ²	5.60	19.40	9.80	16.40	15101
	COLD CURE EPOXY PAINT ON METAL WORK					
	Prepare and apply cold cure epoxy paint (coloured) on the following metal work : -					
	<i>Per square metre</i>					
15102	General surfaces.....	17.40	56.90	29.00	48.30	15102
15103	Glazed windows, doors and the like.....	18.40	66.10	35.20	57.90	15103
15104	Wire mesh, expanded metal mesh, chain link, railing, balustrades and the like.....	17.70	57.60	29.90	49.20	15104
	<i>Per linear metre</i>					
15105	Surfaces n.e. 150 mm girth.....	2.50	7.90	3.80	6.30	15105
15106	Ditto but 150 - 300 mm girth.....	5.00	15.80	7.80	13.00	15106
15107	Pipe n.e. 55 mm nominal diameter.....	3.70	10.60	4.90	8.30	15107
15108	Ditto but 55 - 110 mm nominal diameter.....	7.20	26.40	13.40	22.70	15108
15109	Ditto but 110 - 300 mm nominal diameter.....	13.40	45.40	23.30	38.80	15109
	<i>Each</i>					
15110	Small isolated article n.e. 0.30 m ²	5.60	19.30	9.70	16.40	15110

Item	SURFACE PROTECTION TO STRUCTURAL STEEL							Item	
	Prepare and apply surface protection on the following surfaces as G.S. Items 15.37 & 15.38: -								
		Type A	Type B	Type C	Type D	Type E	Type F	Type G	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	E \$	F \$	G \$	
15111	Structural steel (new surfaces).....	64.10	74.50	168.70	146.20	170.50	54.20	53.10	15111
15112	Structural steel (redecorating).....	67.80	78.30	172.40	149.90	174.20	50.10	50.30	15112
(Note : - The above Items 15111 to 15112 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)									
POWDER COATING ON METAL WORK									
Prepare and apply epoxy or polyester or polyurethane resin based dry powder coating with dry film thickness 50~70 microns on metal surface, including surface preparation all in strict accordance with manufacturer's instructions : -									
	<i>Per square metre</i>							A \$	
15113	Powder coating on metal surfaces.....							102.60	15113
	<i>Per linear metre</i>								
15114	Surfaces n.e. 150 mm girth.....							16.90	15114
15115	Ditto but 150 - 300 mm girth.....							33.90	15115
	<i>Each</i>								
15116	Small isolated article n.e. 0.30m ²							22.60	15116
(Note : - The above Items 15113 to 15116 inclusive will only be paid for, if ordered by Maintenance Surveyor in writing.)									
FLUOROCARBON PVF2 COATING ON METAL WORK									
Prepare and apply fluoropolymer resin based coating with dry film thickness 30~72 microns on metal surface, including surface preparation all in strict accordance with manufacturer's instructions : -									
	<i>Per square metre</i>								
15117	2 coats system (dry film thickness 30~37 microns) comprising primer coat and top coat on metal surface.....							120.80	15117
15118	3 coats system (dry film thickness 40~52 microns) comprising primer coat, top coat and clear coat on metal surface.....							157.00	15118
15119	4 coats system (dry film thickness 60~72 microns) comprising primer coat, barrier coat, top coat and clear coat on metal surface.....							217.40	15119
(Note : - The above Items 15117 to 15119 inclusive will only be paid for, if ordered by Maintenance Surveyor in writing.)									
FIRE RETARDANT PAINT									
Prepare and apply fire retardant paint as G.S. Item 21.14 : -									
	<i>Per square metre</i>						New surfaces A \$	Redeco- ration B \$	
15120	Fabric surfaces.....						19.40	21.50	15120
15121	Wood surfaces.....						20.00	22.30	15121
15122	Metal surfaces.....						19.60	21.80	15122

Item	INTUMESCENT PAINT	Fire rated period		Item		
	Prepare and apply fire rated intumescent paint on structural steel surfaces : -	1 hour	2 hours			
	<i>Per square metre</i>	A \$	B \$			
15123	Structural steel general surfaces.....	307.60	516.80	15123		
	<i>Per linear metre</i>					
15124	Structural steel surfaces not exceeding 150 mm girth.....	39.10	65.60	15124		
15125	Ditto but 150 - 300 mm girth.....	76.30	128.20	15125		
	<i>Each</i>					
15126	Structural steel small isolated article n.e. 0.30m ²	50.80	85.30	15126		
(Note:- The above Items 15123 to 15126 inclusive will only be paid for, if ordered by the Maintenance Surveyor in writing.)						
	BLACK BITUMASTIC PAINT					
	Prepare and apply black bitumastic paint on the following surfaces : -	New surfaces		Redecoration		
	<i>Per square metre</i>	One coat	Two coats	One coat	Two coats	
		A \$	B \$	C \$	D \$	
15127	Concrete, brick, stone, plastered or rendered, or similarly finished walls and soffits.....	18.90	32.70	24.90	38.80	15127
15128	General metal surfaces.....	19.50	33.30	25.90	39.70	15128
15129	General surface of concrete and fixing fillets under floor boarding.....	23.70	40.60	26.20	43.20	15129
15130	Glazed metal windows, doors and the like.....	28.40	48.30	34.20	54.20	15130
15131	Wire mesh, expanded metal mesh, chain link, railings, balustrades and the like.....	20.60	34.90	26.20	40.50	15131
15132	Surfaces of corrugated or profiled metal sheeting.....	22.50	37.80	28.30	43.70	15132
15133	Metal manhole covers, channel covers, tree grilles and the like.....	20.60	34.90	26.20	40.50	15133
	<i>Per linear metre</i>					
15134	Surfaces of metal n.e. 150 mm girth.....	1.70	2.70	2.20	3.00	15134
15135	Ditto but 150 - 300 mm girth.....	4.70	7.90	5.90	9.00	15135
15136	Pipe n.e. 55 mm nominal diameter.....	3.30	5.50	4.10	6.40	15136
15137	Ditto but 55 - 110 mm nominal diameter.....	8.70	15.00	10.40	16.60	15137
15138	Ditto but 110 - 300 mm nominal diameter.....	13.90	23.30	17.60	27.00	15138
15139	Eaves gutter of any type, inside and outside n.e. 600 mm total girth, including cleaning out and making good joints in red lead	43.50	50.80	46.90	54.20	15139
	<i>Each</i>					
15140	Small isolated article n.e. 0.30 m ²	6.00	10.10	6.40	10.60	15140
15141	W.C. cistern including brackets.....	9.30	15.50	10.00	16.20	15141
15142	Rainwater or waste head of any size, inside and outside, including cleaning out.....	43.10	50.40	43.80	51.10	15142

Item	WOOD PRESERVATIVE ON WOOD WORK					Item	
	Prepare and apply wood preservative on the following wood work : -	New surfaces		Redecoration			
		One coat	Two coats	One coat	Two coats		
	<i>Per square metre</i>	A \$	B \$	C \$	D \$		
15143	General surfaces.....	9.30	16.30	9.80	16.80	15143	
	<i>Per linear metre</i>						
15144	Surfaces n.e. 150 mm girth.....	1.10	1.90	1.20	2.00	15144	
15145	Ditto but 150 - 300 mm girth.....	2.40	4.10	2.50	4.30	15145	
	SYNTHETIC PAINT ON WOOD WORK	New surfaces		Redecoration			
	Prepare and apply synthetic paint on the following wood work : -	Primer only (No subsequent paint to be applied)	Primer, one under-coat and one finishing coat	Primer, two under-coats and one finishing coat	One finishing coat	One under-coat and one finishing coat	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	E \$	
15146	General surfaces including doors and sashes.....	12.20	40.10	52.50	25.50	38.90	15146
15147	Jalousies, louvre panels and the like with fixed or moveable louvres.....	18.40	68.10	90.00	38.60	62.50	15147
	<i>Per linear metre</i>						
15148	Surfaces n.e. 150 mm girth.....	2.10	5.60	7.10	3.00	4.70	15148
15149	Ditto but 150 - 300 mm girth.....	3.80	11.90	15.50	6.90	10.80	15149
	<i>Each</i>						
15150	Small isolated article n.e. 0.30 m ²	4.10	15.30	20.20	8.10	13.60	15150
	POLYURETHANE PAINT ON WOOD WORK	New surfaces	Redecoration				
	Prepare and apply polyurethane paint on the following wood work : -	One under-coat and one finishing coat	One finishing coat	One under-coat and one finishing coat	Two finishing coats		
	<i>Per square metre</i>	A \$	B \$	C \$	D \$		
15151	General surfaces including doors and sashes.....	44.70	31.00	50.40	52.60	15151	
15152	Jalousies, louvre panels and the like with fixed or moveable louvres.....	73.70	47.00	79.70	83.80	15152	
	<i>Per linear metre</i>						
15153	Surfaces n.e. 150 mm girth.....	5.50	3.80	6.00	6.80	15153	
15154	Ditto but 150 - 300 mm girth.....	12.00	8.00	13.30	14.00	15154	
	<i>Each</i>						
15155	Small isolated article n.e. 0.30 m ²	13.30	8.80	13.80	14.80	15155	

Item	POLYURETHANE PAINT ON WOOD WORK (CONT'D)			Item																
	Prepare and apply polyurethane paint on the following wood work : - (cont'd)		<table border="1"> <tr> <th>New surfaces</th> <th>Redecoration</th> </tr> <tr> <td>A</td> <td>B</td> </tr> <tr> <td>\$</td> <td>\$</td> </tr> </table>	New surfaces	Redecoration	A	B	\$	\$											
New surfaces	Redecoration																			
A	B																			
\$	\$																			
	<i>Per square metre</i>																			
15156	Wood block, strip or parquet flooring.....	33.40	39.10	15156																
	URETHANE SEALER AND POLISH ON WOOD WORK		<table border="1"> <tr> <th>New surfaces</th> <th colspan="2">Redecoration</th> </tr> <tr> <td rowspan="2">One sealer coat and two finishing coats</td> <td>One coat</td> <td>Two coats</td> </tr> <tr> <td>A</td> <td>B</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </table>	New surfaces	Redecoration		One sealer coat and two finishing coats	One coat	Two coats	A	B	\$	\$	\$						
New surfaces	Redecoration																			
One sealer coat and two finishing coats	One coat	Two coats																		
	A	B																		
\$	\$	\$																		
	Prepare and apply urethane sealer and polish on the following wood work :-																			
	<i>Per square metre</i>																			
15157	Wood block or wood strip flooring.....	59.80	34.80 54.10	15157																
	WAX POLISH ON WOOD WORK		<table border="1"> <tr> <th colspan="2">New surfaces</th> <th colspan="2">Redecoration</th> </tr> <tr> <td>Two coats</td> <td>Three coats</td> <td>One coat</td> <td>Two coats</td> </tr> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </table>	New surfaces		Redecoration		Two coats	Three coats	One coat	Two coats	A	B	C	D	\$	\$	\$	\$	
New surfaces		Redecoration																		
Two coats	Three coats	One coat	Two coats																	
A	B	C	D																	
\$	\$	\$	\$																	
	Prepare and wax polish to approval on the following wood work :-																			
	<i>Per square metre</i>																			
15158	General surfaces.....	-	49.40 24.50 37.60	15158																
	<i>Per linear metre</i>																			
15159	Surfaces n.e. 150 mm girth.....	-	4.00 2.00 3.10	15159																
15160	Surfaces 150 - 300 mm girth.....	-	12.00 6.00 9.20	15160																
	<i>Per square metre</i>																			
15161	Surfaces of wood block or wood strip flooring.....	20.30	- 14.30 22.10	15161																
	NATURAL OIL ON LANDSCAPE TIMBER		<table border="1"> <tr> <th>New surfaces</th> <th>Redecoration</th> </tr> <tr> <td>Three coats</td> <td>Two coats</td> </tr> <tr> <td>A</td> <td>B</td> </tr> <tr> <td>\$</td> <td>\$</td> </tr> </table>	New surfaces	Redecoration	Three coats	Two coats	A	B	\$	\$									
New surfaces	Redecoration																			
Three coats	Two coats																			
A	B																			
\$	\$																			
	Prepare and apply natural oil coating on the following wood work :-																			
	<i>Per square metre</i>																			
15162	General surfaces of landscape timber.....	93.10	62.10	15162																

Item	LINSEED OIL ON WOOD WORK										Item											
	Prepare and apply linseed oil on the following wood work : -																					
									New surfaces Three coats	Redecoration Two coats												
	<i>Per square metre</i>																					
15163	General surfaces.....										44.00	32.30	15163									
	<i>Per linear metre</i>																					
15164	Surfaces n.e. 150 mm girth.....										3.50	2.60	15164									
15165	Surfaces 150 - 300 mm girth.....										10.60	7.80	15165									
	STAIN, VARNISH AND LACQUER ON WOOD WORK																					
	Prepare and stain, varnish and/or lacquer on the following wood work : -																					
	<i>Per square metre</i>																					
15166	General surfaces including doors and sashes										22.80	8.90	30.10	41.80	48.10	28.50	8.90	24.90	35.70	27.20	40.10	15166
15167	Jalousies, louvre panels and the like with fixed or moveable louvres										29.50	11.70	39.50	54.80	64.30	35.50	11.70	31.20	45.40	34.70	51.90	15167
	<i>Per linear metre</i>																					
15168	Surfaces n.e. 150 mm girth										1.80	0.70	2.50	3.40	4.00	2.40	0.70	2.10	2.90	2.30	3.30	15168
15169	Ditto but 150 - 300 mm girth.....										5.60	2.20	7.40	10.30	11.70	6.80	2.20	6.00	8.60	6.60	9.60	15169
	<i>Each</i>																					
15170	Small isolated article not exceeding 0.30 m²										7.50	2.90	9.90	13.70	15.60	8.00	2.90	6.80	10.30	7.50	11.60	15170
	PESTICIDAL COATING																					
	Prepare and apply pesticidal coating to the following surfaces : -																					
	<i>Per square metre</i>																					
15171	General surfaces of plaster, render, concrete, brick, block, stone or wood.....										25.60	28.80	15171									
	<i>Per linear metre</i>																					
15172	Ditto but in band n.e. 150 mm wide at joints, junctions, skirting tops and similar positions.....										4.00	4.50	15172									
	Add to either of Items 15044 to 15172 inclusive for all stain, varnish, lacquer paint and other paints on wood and metal surface if low VOC paint is specified.....										30%											

Item	MARKING MATERIALS					Item
	Prepare and paint the following lines, etc., in white or yellow thermoplastic road marking material (Type A) as BS 3262:1989 on tarmac, concrete or other surfaces for roads, carriageways, car parks, paving and the like : -	Mark out and paint in two coats	Re-paint over existing		Obliterate existing	
			One coat	Two coats		
	<i>Per linear metre</i>	A	B	C	D	
		\$	\$	\$	\$	
15173	Line n.e. 150 mm wide.....	17.20	9.60	17.90	4.80	15173
15174	Ditto but 150 - 300 mm wide.....	33.10	18.50	35.30	9.30	15174
15175	Line n.e. 150 mm wide and circular on plan n.e. 15.00 m radius.....	18.30	10.40	19.00	5.10	15175
15176	Ditto but 150 - 300 mm wide.....	35.20	19.80	37.30	10.10	15176
	<i>Each</i>					
15177	Letter, number, Chinese character, logo, symbol and the like n.e. 75 mm high.....	11.30	7.50	12.00	3.20	15177
15178	Ditto but 75 - 150 mm high.....	23.20	15.00	24.30	6.80	15178
15179	Ditto but 150 - 225 mm high.....	31.90	20.50	33.60	10.50	15179
15180	Ditto but 225 - 300 mm high.....	44.10	28.20	46.20	15.60	15180
15181	Ditto but 300 - 450 mm high.....	62.60	39.10	65.50	24.60	15181
15182	Ditto but 450 - 600 mm high.....	91.30	55.80	95.10	40.10	15182
15183	Ditto but 600 - 1,000 mm high.....	122.20	83.70	142.60	60.10	15183
15184	Ditto but 1,000 - 2,000 mm high.....	182.60	111.60	190.10	80.20	15184
15185	Arrow-head n.e. 150 mm long.....	15.90	10.40	16.90	5.90	15185
15186	Ditto but 150 - 300 mm long.....	24.00	15.50	25.30	9.50	15186
15187	Ditto but 300 - 450 mm long.....	34.50	21.70	36.00	13.00	15187
15188	Ditto but 450 - 900 mm long.....	55.30	33.70	57.70	18.60	15188
15189	Ditto but 900 - 1,350 mm long.....	98.90	57.30	101.80	26.50	15189
15190	Ditto but 1,350 - 2,000 mm long.....	148.40	85.90	152.80	39.60	15190
15191	Ditto but 2,000 - 3,000 mm long.....	197.70	114.50	203.70	52.90	15191
15192	Arrow-head with left/right and straight 1,350 - 2,000 mm long.....	173.00	100.20	178.30	46.30	15192
15193	Ditto but 2,000 - 3,000 mm long.....	222.50	128.80	229.10	59.50	15193

Item	MARKING MATERIALS (CONT'D)					Item
	Prepare and paint the following lines, etc., in white or yellow thermoplastic road marking material (Type B) as BS 3262:1989 on tarmac, concrete or other surfaces for roads, carriageways, car parks, paving and the like : -	Mark out and paint in two coats	Re-paint over existing		Obliterate existing	
			One coat	Two coats		
	<i>Per linear metre</i>	A \$	B \$	C \$	D \$	
15194	Line n.e. 150 mm wide.....	17.80	10.00	18.50	4.80	15194
15195	Ditto but 150 - 300 mm wide.....	34.40	19.10	36.60	9.30	15195
15196	Line n.e. 150 mm wide and circular on plan n.e. 15.00 m.....	18.90	10.70	19.60	5.10	15196
15197	Ditto but 150 - 300 mm wide.....	36.40	20.40	38.60	10.10	15197
	<i>Each</i>					
15198	Letter, number, Chinese character, logo, symbol & the like n.e. 75 mm high.....	11.30	7.50	12.00	3.20	15198
15199	Ditto but 75 - 150 mm high.....	23.30	15.00	24.40	6.80	15199
15200	Ditto but 150 - 225 mm high.....	32.10	20.60	33.80	10.50	15200
15201	Ditto but 225 - 300 mm high.....	44.50	28.40	46.60	15.60	15201
15202	Ditto but 300 - 450 mm high.....	63.40	39.50	66.30	24.60	15202
15203	Ditto but 450 - 600 mm high.....	92.80	56.60	96.60	40.10	15203
15204	Ditto but 600 - 1,000 mm high.....	139.30	84.90	145.00	60.10	15204
15205	Ditto but 1,000 - 2,000 mm high.....	185.70	113.10	193.20	80.20	15205
15206	Arrow-head n.e. 150 mm long.....	15.90	10.50	16.90	5.90	15206
15207	Ditto but 150 - 300 mm long.....	24.10	15.60	25.40	9.50	15207
15208	Ditto but 300 - 450 mm long.....	34.80	21.80	36.30	13.00	15208
15209	Ditto but 450 - 900 mm long.....	56.30	34.20	58.50	18.60	15209
15210	Ditto but 900 - 1,350 mm long.....	101.50	58.60	104.70	26.50	15210
15211	Ditto but 1,350 - 2,000 mm long.....	152.30	87.90	157.10	39.60	15211
15212	Ditto but 2,000 - 3,000 mm long.....	203.00	117.10	209.50	52.90	15212
15213	Arrow-head with left/right and straight 1,350 - 2,000 mm long.....	177.70	102.50	183.30	46.30	15213
15214	Ditto but 2,000 - 3,000 mm long.....	228.40	131.80	235.70	59.60	15214

Item	FLUORESCENT PAINT				Item
	Prepare and apply fluorescent paint of any colour ordered on the following surfaces : -	New surfaces	Redecoration		
		Alkali resisting primer, one under-coat of flat synthetic paint and one finishing coat	One finishing coat	One under-coat of white synthetic paint and one finishing coat	
	<i>Per square metre</i>	A \$	B \$	C \$	
15215	Concrete paving, kerb stones and the like.....	58.20	38.70	47.70	15215
15216	Plastered or rendered vertical surfaces.....	59.80	39.50	49.20	15216
15217	Chunam surfacing to banks.....	62.50	41.50	51.30	15217
15218	Natural or trimmed rock face.....	64.90	43.50	53.30	15218
	REFLECTING PAINT	New surfaces	Redecoration		
	Prepare and apply reflecting paint on the following surfaces : -			One coat alkali resisting primer, one under-coat of white synthetic paint and one finishing coat of synthetic paint finished with gloss fine reflective aggregate	
		One finishing coat of synthetic paint finished with gloss fine reflective aggregate	One under-coat and one finishing coat of synthetic paint finished with gloss fine reflective aggregate		
	<i>Per square metre</i>	A \$	B \$	C \$	
15219	Concrete paving, kerb stones and the like.....	41.60	60.90	80.00	15219
15220	Plastered or rendered vertical surfaces.....	42.30	62.40	82.00	15220
15221	Chunam surfacing to banks.....	45.40	65.50	85.60	15221
15222	Natural or trimmed rock face.....	48.10	68.70	89.30	15222

Item	CHALKBOARD PAINT				Item
	Prepare and apply chalkboard paint on the following surfaces : -	New surfaces		Redecoration	
		Two coats	One coat	Two coats	
	<i>Per square metre</i>	A	B	C	
		\$	\$	\$	
15223	On surfaces of chalkboard.....	33.70	20.60	35.00	
	PROPRIETARY PAINTING				
	(Note : - The following Items 15224 to 15244 inclusive will only be paid for, if ordered by Maintenance Surveyor in writing.)				
	Prepare and apply : -	New surfaces		Redecoration	
	<i>Per square metre</i>	A	B		
		\$	\$		
15224	"Tefcote" hygienic coating system, Model P3000 HRX, in strict accordance with the manufacturer's recommendation to tiled wall surfaces including tile filler.....	403.50	419.80		15224
15225	Ditto to plastered walls and soffits.....	353.20	369.50		15225
15226	"Thortex" hygienic coating system, in strict accordance with the manufacturer's recommendation to tiled wall surfaces.....	163.00	171.10		15226
15227	"Bonncoat" acrylic coating system to tiled wall surface including tile filler.....	203.70	209.50		15227
15228	Ditto to plastered walls and soffits.....	145.50	151.40		15228
15229	"Artilin" vinycide insecticide functional coating system to plastered walls and soffits.....	48.30	49.80		15229
15230	"SKK" polyurethane enamel textured coating system to tiled wall surfaces including tile filler.....	139.20	140.70		15230
15231	Ditto to plastered walls and soffits.....	89.10	91.70		15231
15232	"SKK Sipolight-B" vermiculite acoustic spray coating system to plastered walls and soffits.....	129.80	133.70		15232
15233	"SKK New LT-Clean" elastic acrylic silicon resin colour coating system to tiled wall surfaces including tile filler.....	125.00	126.50		15233
15234	Ditto to plastered walls and soffits.....	74.90	77.10		15234
15235	"SKK" polyurethane orange peel coating system to tiled wall surfaces including tile filler.....	152.40	154.00		15235
15236	Ditto to plastered walls and soffits.....	102.30	105.40		15236
15237	"SKK Eleganstone" spray-on granite coating system to tiled wall surfaces including tile filler.....	345.60	347.20		15237
15238	Ditto to plastered walls and soffits.....	295.50	304.40		15238
15239	"SKK Fussolon Enamel" fluorine-containrd resin coating system to tiled wall surfaces including tile filler.....	311.80	313.40		15239
15240	Ditto to plastered walls and soffits.....	261.70	269.60		15240

Item	PROPRIETARY PAINTING (CONT'D)			Item	
	Prepare and apply (cont'd) :-		New surfaces	Redeco-ration	
			A	B	
			\$	\$	
	<i>Per square metre</i>				
15241	"Hempel" elastomeric waterproofing coating system to tiled wall surfaces including tile filler.....	212.80	219.20	15241	
15242	Ditto to plastered walls and soffits.....	160.00	164.80	15242	
15243	"Emery" waterproofing coating system to tiled wall surfaces including tile filler.....	215.40	221.80	15243	
15244	Ditto to plastered walls and soffits.....	173.50	178.80	15244	
	Sundries :-				
	<i>Per square metre</i>		A		
			\$		
15245	Supply and apply 2 coats proprietary tile filler to tiled surface including cleaning all dirt, dust and efflorescence on existing surface.....		62.60	15245	
	<i>Per linear metre</i>				
15246	Supply and apply proprietary pattern sticker in any width to the designated pattern as stipulated by Maintenance Surveyor, including setting out, fixing and removal.....		42.30	15246	
	(Note:- The above Items 15245 to 15246 inclusive will only be paid for, if ordered by Maintenance Surveyor in writing.)				
	PROPRIETARY FLOOR COATING SYSTEM				
	Supply and lay 2 coats of two component epoxy resin coating as 'Sikafloor 7530' on concrete floor or rendering floor to a total thickness of 0.5 to 0.7 mm about 0.40 to 0.45kg/m2 including all necessary surface preparation and use of compatible primer, in strict accordance with the manufacturer's recommendations				
	<i>Per square metre</i>		A		
			\$		
15247	On floors of non-textured surfaces.....		117.50	15247	
15248	On floors of anti-skid surfaces.....		120.80	15248	
	<i>Per linear metre</i>				
15249	On walls or columns 100 mm high as skirting including any round top and curved bottom.....		14.80	15249	
	Supply and lay 2 coats of "Sealocrete Epoxy Drycote" on concrete floor or rendering floor including necessary surface preparation and use of compatible primer, in strict accordance with the manufacturer's recommendations				
	<i>Per square metre</i>				
15250	On floors.....		155.20	15250	
15251	On floors with non-slip aggregate (fine grade) to achieve non-slip surfaces.....		181.10	15251	

Item	PROPRIETARY PAINTING TO SPORT HALL FLOORING SYSTEM			Item	
	Proprietary painting system to sport hall flooring system (items 08347 to 08352 inclusive) all in accordance with the manufacturer's recommendations :-		New surface A \$	Redecoration B \$	
	<i>Per square metre</i>				
15252	General surface.....	44.70	55.90	15252	
	<i>Per linear metre</i>				
15253	Line not exceeding 25 mm wide.....	24.80	31.10	15253	
15254	Ditto but 25 - 50 mm wide.....	29.80	37.30	15254	
15255	Ditto but 50 - 75 mm wide.....	34.80	43.50	15255	
	RE-ENAMEL PAINT ON SURFACE OF BATH TUB				
	Prepare and apply re-enamel paint on the following:-				
	<i>Per number</i>		A \$		
15256	Exposed surfaces of bath tub of any sizes and any type.....		800.00	15256	
	WRITING				
	Mark out and paint the following letters, etc., in one or more thick coats of synthetic paint as necessary to obtain bold and solid result, free from brush marks or obliterate existing including scraping or stripping off letter and touching up paint to match general surface (in the case of repaint over or obliterate existing writing, not measurable if surrounding surface being re-painted) :-		Paint new A \$	Re-paint over existing B \$	Obliterate existing C \$
	<i>Each</i>				
15257	Letter, number, Chinese character, logo, symbol and the like, n.e. 25 mm high.....	4.20	5.00	4.60	15257
15258	Ditto but 25 - 75 mm high.....	5.90	7.00	6.50	15258
15259	Ditto but 75 - 150 mm high.....	7.80	9.10	8.80	15259
15260	Ditto but 150 - 225 mm high.....	10.70	12.30	12.20	15260
15261	Ditto but 225 - 300 mm high.....	14.40	16.50	16.80	15261
15262	Index hand or arrow n.e. 300 mm long.....	11.10	13.10	12.40	15262
15263	Ditto but 300 - 600 mm long.....	23.90	27.70	27.20	15263
15264	Ditto but 600 - 900 mm long.....	39.00	40.80	47.10	15264
	<i>Per linear metre</i>				
15265	Line n.e. 25 mm wide.....	8.90	13.10	10.80	15265
15266	Ditto but 25 - 50 mm wide.....	14.10	17.90	17.40	15266
15267	Ditto but 50 - 75 mm wide.....	21.50	27.20	26.70	15267
	Add to either of Items 15257 to 15267 inclusive for gold gilding in lieu of synthetic paint.....			300%	

Item	PAPER HANGING				Item	
	Supply and fix approved wall paper : -	Plain fabric backed vinyl cloth	Textured vinyl cloth	Vinyl with paper backed		
	<i>Per square metre</i>	A \$	B \$	C \$		
15268	Wall paper to plastered surfaces.....	56.40	84.70	36.20	15268	
15269	Ditto but to gypsum plasterboard surfaces.....	55.30	83.80	35.30	15269	
15270	Ditto but to plywood surfaces.....	55.30	83.80	35.30	15270	
15271	Wall paper of self-adhesive type to plastered surfaces.....	57.60	94.00	33.80	15271	
15272	Ditto but to gypsum plasterboard surfaces.....	56.50	93.10	32.90	15272	
15273	Ditto but to plywood surfaces.....	56.50	93.10	32.90	15273	
15274	Hang only to plastered surfaces.....	21.70	21.70	21.70	15274	
15275	Ditto but to gypsum plasterboard surfaces.....	20.80	20.80	20.80	15275	
15276	Ditto but to plywood surfaces.....	20.80	20.80	20.80	15276	
15277	Hang only wall paper of self-adhesive type to plastered surfaces.....	15.80	15.80	15.80	15277	
15278	Ditto but to gypsum plasterboard surfaces.....	14.90	14.90	14.90	15278	
15279	Ditto but to plywood surfaces.....	14.90	14.90	14.90	15279	
	MISCELLANEOUS ITEMS					
	<i>Per square metre</i>				A \$	
15280	Completely strip off existing washable distemper, anti-mould washable distemper, plastic emulsion paint, anti-mould acrylic emulsion paint, textured emulsion paint, cement paint, textured cement paint, cold cure epoxy paint and polyurethane paint by scraping or other approved means				13.90	15280
15281	Completely strip off existing synthetic, metallic, heat resisting, polyurethane or similar type of paint or varnish (any number of coats) or lacquer on any surface by scraping combined with burning off, or using chemical solvents if necessary, and leaving surface bare and clean, including washing down with neutralising solution if chemical solvents have been used				19.90	15281
15282	Completely strip off existing wall paper by scraping or other approved means (not measurable if backing being removed in the same operation).....				8.40	15282
15283	Extra over painting of any description for applying first or any subsequent coat by means of electrical or petrol driven compressed spraying plant, including all masking, etc., when specifically ordered in writing				1.30	15283
	(This item will not be paid for, if requested by the Contractor and is permitted, to execute painting by spraying.)					
15284	Stipple last coat of paint of any description on any surface when specifically ordered in writing.....				12.00	15284
15285	Frost glass with one coat of paint to imitate ground glass (glazing bars not deducted).....				17.80	15285
15286	Wash down new or existing surface with anti-mould liquid before decorating or re-decorating.....				5.30	15286
15287	Prepare new or existing wall or ceiling surface and apply one liberal coat of silicone water repellent liquid.....				31.30	15287
15288	Ditto but two coats ditto.....				57.60	15288

Item	SUNDRY CLEANING AND SEALING ITEMS		Item
	(Note : - The following Items 15289 to 15306 inclusive shall only be paid for, if ordered by the Maintenance Surveyor in writing. Normal cleaning up and removal of paint stains, etc., after execution of decoration or any other work, have been allowed for in the rates throughout this Schedule.)	A \$	
	<i>Per square metre</i>		
15289	Thoroughly scrub and wash down surfaces of Shanghai plaster in any position with stiff hard bristle brushes and detergent in hot or cold water, and rinse down with fresh water and leave clean and free from dirt, stains and the like	7.80	15289
15290	Scrub clean existing terrazzo or rubbed granolithic paving, covering, skirting, etc., in any position with non-caustic fine scouring powder and water, and rinse down with fresh water	15.10	15290
15291	Add to Item 15290 for rubbing with carborundum blocks.....	47.60	15291
15292	Apply one coat of wax emulsion to surfaces of terrazzo or rubbed granolithic after cleaning.....	10.40	15292
15293	Clean surfaces of thermo-plastic, vinyl, cork and similar flooring with detergent in water including scrubbing with soft bristle brushes if necessary, and mopping over surface with damp mop afterwards	4.40	15293
15294	Apply one coat of wax emulsion to surfaces of thermo-plastic, vinyl, cork and similar flooring after cleaning, and buff up.....	3.00	15294
15295	Sweep surface of cork flooring clean and apply two coats of approved sealer.....	7.20	15295
15296	Scrub and clean surfaces of glazed or mosaic wall or floor tiling with solution of warm water and 10% hydrochloric or oxalic acid, and rinse with fresh water.....	4.10	15296
15297	Scrub and clean surfaces of vitreous or glass mosaic tiles in any position with approved cleaning solution and rinse down with fresh water.....	5.70	15297
15298	Clean down synthetic painted or varnished surfaces with soft soap or suitable detergent and water, with admixture of disinfectant if required, and dry off with wash leather.....	4.10	15298
15299	Clean down external painted surface with high pressure water jets.....	7.80	15299
15300	Clean stonework or Shanghai plaster in any position with approved chemical stone cleaning solution and thoroughly wash off with fresh water applied by high pressure water jets.....	9.00	15300
15301	Seal cleaned stonework or Shanghai plaster with approved chemical stone sealer and thoroughly wash off surplus with fresh water applied by high pressure water jets.....	11.70	15301
15302	Clean off letters, Chinese characters, etc., painted on stone, plastered or similar surfaces in synthetic paint, marking paint, tar and the like with approved chemical cleaner including scrubbing and scraping as necessary, and thoroughly washing off with fresh water applied by high pressure water jets.....	39.10	15302
	<i>Each</i>		
15303	Thoroughly scrub and clean existing W.C. pan and cistern, urinal stall, lavatory basin, sink and the like with spirits of salts and hot water.....	16.40	15303
15304	Empty galvanized steel, concrete water cistern, cylinder or tank or fibreglass tanks n.e. 1.00 m ³ internal volume, scrape or brush off internally and remove all growth, rust, scale, etc., from bottom, sides and top, scrub out and clean with chloride of lime solution (less than 1 kg chloride of lime to 6,000 litre of water) and thoroughly flush and wash through with fresh water	34.90	15304
15305	Ditto but 1.00 - 2.00 m ³	45.40	15305
15306	Add to Item 15305 for each additional 1.00 m ³	30.30	15306

Item	SUPPLY ONLY OF MATERIALS		Item
	<i>Per litre</i>	A \$	
15307	Emulsion paint.....	44.20	15307
15308	Textured emulsion paint.....	46.50	15308
15309	Cold cured epoxy paint (coloured) (Two pack type).....	75.70	15309
15310	External textured paint.....	46.50	15310
15311	Anti-mould acrylic emulsion paint.....	55.80	15311
15312	Multi-colour paint - Primer.....	65.50	15312
15313	Ditto - Blinder.....	72.30	15313
15314	Ditto - Finishing coat.....	148.90	15314
15315	Synthetic paint - Undercoat.....	41.00	15315
15316	Ditto - Gloss finishing coat.....	45.00	15316
15317	Metallic paint - Aluminium bright finish.....	86.30	15317
15318	Ditto - Copper alloy bronze finish.....	86.30	15318
15319	Non-toxic paint.....	103.90	15319
15320	Polyurethane paint (coloured) (Two pack type).....	96.30	15320
15321	Polyurethane paint (clear) (Ditto).....	96.30	15321
	<i>Per square metre</i>		
15322	Wall paper - Plain fabric backed vinyl cloth.....	32.50	15322
15323	Ditto - Plain fabric backed vinyl cloth of self-adhesive type.....	40.80	15323
15324	Ditto - Textured vinyl cloth.....	64.00	15324
15325	Ditto - Textured vinyl cloth of self-adhesive type.....	80.10	15325
15326	Ditto - Vinyl with paper backed.....	14.50	15326
15327	Ditto - Vinyl with paper backed of self-adhesive type.....	18.00	15327

Section 16

DRAINAGE AND CABLE DUCT

DRAINAGE AND CABLE DUCT

SPECIAL CONDITIONS

- | | | |
|--|-------|--|
| Measurement of excavation | I. | Unless specifically included in the items under this Section, all excavation will be measured separately and paid for at the appropriate rates under Section 01 - Excavation of this Schedule. |
| Measurement of granular bedding for drain pipes | II. | The measurement shall be the compacted thickness as specified by the Maintenance Surveyor, whether laid in one or more layers. No deduction shall be made for voids not exceeding 1.00 m ³ . |
| Measurement of concrete filling | III. | Unless specifically included in the items under this Section, all concrete filling will be measured separately and paid for at the appropriate rates under Section 02 - Concrete Work of this Schedule. |
| Measurement of reinforcement | IV. | Unless specifically included in the items under this Section, all steel reinforcement and joist will be measured separately and paid for at the appropriate rates under Section 02 - Concrete Work and Section 10 - Steel and Metal Work of this Schedule. |
| Measurement of formwork | V. | Formwork shall be measured as the actual surface in contact with concrete. No deduction shall be made for openings not exceeding 1.00 m ² . Boxing for opening exceeding 1.00 m ² shall be measured as edges. Wrot formwork shall be measured only when a fair finished face to the concrete is specifically ordered by the Maintenance Surveyor in writing. |
| Measurement of pipes | VI. | All drain pipes and cable duct pipes shall be measured net as laid or fixed over all fittings. |
| Measurement of fittings | VII. | Fittings shall be measured as "Extra over" the pipe runs. Taper bends and junctions with diminishing branches shall be measured as the size of the largest end.

Fittings shall be identified the largest diameter. |
| Measurement of "Cut into pipes" | VIII. | Measurement of "Cut into pipes" shall only be measured when forming new junctions at existing drains. |
| Measurement of manholes, cesspits, etc. | IX. | Manholes, cesspits, etc. shall be measured net as cast.

No deduction shall be made for : -

(a) Voids not exceeding 0.05 m ³ .

(b) The volume of reinforcement, steel joist and the like.

(c) Openings in walls, cover slabs and the like not exceeding 0.10 m ² . |
| Measurement of precast concrete | X. | Precast concrete shall be measured the actual size of the item casted. Any plasterwork shall be excluded in the measurement and it will be measured separately and paid for at the appropriate rates under applicable Work Sections of this Schedule. |

SPECIAL CONDITIONS (CONT'D)

- | | |
|--|--|
| <p>XI. The rates for concrete beds, haunchings and surrounds to pipes shall include for : -</p> <ul style="list-style-type: none"> (a) Providing and laying a layer of polythene sheeting or concrete blinding on the bottom of trenches before concreting. (b) All necessary formwork and falsework. (c) Forming flexible joints including joint filler. (d) All necessary precast concrete wedges, blocks or cradles or other approved pipe supports including compressible sheeting. (e) Keeping concrete and pipes damp until backfilling placed. | <p>Rates for concrete beds, haunchings and surrounds to pipes</p> |
| <p>XII. The rates for granular beds shall include for : -</p> <ul style="list-style-type: none"> (a) Recycled or non-recycled granular bedding material to be clean, hard, durable, crushed rock or crushed concrete, broken stone, hard brick, concrete or other comparable hard insert approved by the Maintenance Surveyor. (b) Compacting and trimming granular beds to correct gradient and shape under barrel and pipe sockets. (c) Handling from temporary spoil heaps. (d) Additional bulk of material required to allow for compaction and consolidation. (e) Re-compacting and laying granular around pipes after testing. | <p>Rates for granular beds</p> |
| <p>XIII. The rates for all types of drain pipes shall include for : -</p> <ul style="list-style-type: none"> (a) All short lengths and all cutting and waste including fitting with flanged ends for jointing. (b) All jointing including provision of loose collars, loose sockets, connectors, flanged socket ends, flanged spigot ends and the like and jointing materials. (c) Provision and fixing of all holderbats required for pipes fixed to manhole sides and the like and making good. (d) Building in ends of pipes to manhole sides and the like, jointing to channels and making good. (e) Temporary sealing of pipes during the progress of the work. (f) Testing as specified, remedying any defects and re-testing as necessary until the Maintenance Surveyor satisfies the test results. (g) Cleaning out as G.S. Item 23.57. (h) Provision of all information required by the Maintenance Surveyor for preparation of record drawings. | <p>Rates for drain pipes</p> |
| <p>XIV. The rates for plastic pipes shall further include for all made bends.</p> | <p>Rates for plastic pipes</p> |

SPECIAL CONDITIONS (CONT'D)

- Rates for pipe fittings**
- XV. The rates for all types of pipe fittings shall include for : -
- (a) Additional cutting and waste on pipes and all extra joints.
 - (b) In the case of bends, bends of any angle.
 - (c) In the case of single and double junctions or branches, square or oblique connections with straight or curved offsets and all ends either equal or reducing.
- Rates for traps and gullies of any type**
- XVI. The rates for traps and gullies of any type shall include for : -
- (a) All necessary concrete bedding, cover and surrounds including formwork.
 - (b) Excavation, backfilling with suitable materials, compaction and removal of surplus excavated materials from Site.
 - (c) Building in ends of pipes to gully sides and the like.
 - (d) Connecting and jointing to drainage system.
- Rates for surface water channels or step channels**
- XVII. The rates for surface water channels or step channels shall include for : -
- (a) Excavation, backfilling with suitable filling materials, compaction and removal of surplus excavated materials from Site.
 - (b) All necessary formwork.
 - (c) Forming movement joints, angles, ends, intersections, junctions, outlets, rebates to receive channel covers and the like.
 - (d) Rendering all exposed surfaces with minimum 13 mm thick cement and sand (1:3) mortar.
 - (e) Providing and forming PVC weepholes, if required.
 - (f) Connecting and jointing to drainage system.
- Rates for benching**
- XVIII. The rates for benching shall include for : -
- (a) All necessary formwork.
 - (b) Forming main and branch channels as required including finishing to falls.
 - (c) Finishing smooth and marrying into structural sides with cement mortar (1:3).
- Rates for sub-soil drain pipes**
- XIX. The rates for sub-soil drain pipes shall further include for : -
- (a) All pipe fittings, such as junctions, reducers, bends, plugs and the like.
 - (b) Forming holes in pipeline for junction if required.

SPECIAL CONDITIONS (CONT'D)

XX.	The rates for cable duct pipes shall include for : -	Rates for cable duct pipes
(a)	All short lengths and all cutting and waste.	
(b)	All jointing and jointing materials as required.	
(c)	Provision of nylon draw cord in each length of duct.	
(d)	Provision of all information required by the Maintenance Surveyor for preparation of record drawings.	
XXI.	The rates for "Cut into pipes" shall include for : -	Rates for "Cut into pipes"
(a)	Making good to any length of pipe damaged in addition to the net length which has actually been removed, including providing new pipes and forming new joints.	
(b)	Maintaining the soil or waste flow by means of temporary channels or pipes whilst the work is in progress, including additional excavation or other related works.	
(c)	Making good ends of existing pipe including fitting flanged ends, if any.	
XXII.	The rates for clayware pipes shall further include for : -	Rates for clayware pipes
(a)	Providing extra strength "o" ring flexible spigot and socket joints.	
XXIII.	The rates for cast iron channel covers shall include for : -	Rates for cast iron channel covers
(a)	Multi-handling and placing in position.	
(b)	All necessary cutting and waste.	
(c)	Adjusting to suit channel alignment.	
XXIV.	The rates for precast concrete channel covers shall include for : -	Rates for precast concrete channel covers
(a)	Forming slots to channel covers.	
(b)	Multi-handling and placing in position.	
(c)	All necessary formwork.	
(d)	All necessary cutting and waste.	
(e)	Adjusting to suit channel alignment.	
XXV.	The rates for manholes, cesspits, etc. shall include for : -	Rates for manholes, cesspits, etc.
(a)	Tamping around reinforcement.	
(b)	Rendering all internal surfaces with minimum 13 mm thick cement and sand (1:3) mortar.	
(c)	Fair-faced finish internally as G.S. Item 6.72.	
(d)	Testing of water tightness as G.S. Item 23.44.	

SPECIAL CONDITIONS (CONT'D)

- Rates for formwork**
- XXVI. The rates for formwork shall include for : -
- (a) Submission of design on formwork and falsework, if any, including supports and foundations by an independent structural engineer.
 - (b) Erecting, maintaining and striking formwork and falsework.
 - (c) Preventing loss of grout between joints.
 - (d) Fixing inserts and chases.
 - (e) Box out to form holes not exceeding 1.00 m².
 - (f) Preparing and applying surface retarders and release agents as required.
 - (g) Multi-handling of removing formwork and falsework when striking without overloading the finished concrete work.
 - (h) Preparing and applying wood preservatives to all surfaces of left-in timber formwork.
 - (i) Forming cambers and falls.
 - (j) Individual fillets, chambers, splays, drips, rebates, recesses, grooves and the like, not exceeding 100 mm total girth measured on the faces in contact with the concrete.
 - (k) Strutting to soffits at any height.
 - (l) Soffits of solid slabs in any thickness.
 - (m) Sides and soffits of beams in any depth.
 - (n) In case of formwork materials proposed by the contractor, all necessary preparation work other than spatterdash.
- Rates for manhole or gully sump cover and frame**
- XXVII. The rates for manhole or gully sump cover and frame shall include for : -
- (a) Bedding frame in cement and sand (1:3) mortar.
 - (b) Sealing cover in heavy grease.
 - (c) Providing two keys for each pattern of cover.
- Rates for "Alterations to existing manholes"**
- XXVIII. The rates for "Alterations to existing manholes" shall include for any one of the following as applicable : -
- (a) All preparation work that are required for the alteration.
 - (b) Forming main and branch channels as required in re-formed benching including finishing to falls.
 - (c) Provision of temporary channels or drain pipes and/or other temporary measure necessary to maintain the existing soil or waste flow whilst the work is in progress.
 - (d) All other related works that are required for the alteration.
 - (e) Clearing away debris arising from alteration work.
 - (f) Making good areas disturbed to match existing.

SPECIAL CONDITIONS (CONT'D)

<p>XXIX. The rates for “Cleaning out manholes, cesspits, septic tanks, catch pits, grease pits and other drainage chambers” shall include for any one of the following as applicable : -</p> <p>(a) Removing covers and re-fixing including re-sealing with heavy grease after cleaning out works.</p> <p>(b) Removing all sludge, silts, solid matters, etc. and the like by labour or pumping out from drainage chamber.</p> <p>(c) Clearing away and disposal of sludge, deposits, solid matters, etc. to the dumping site approved by Environmental Protection Department.</p> <p>(d) Cleaning out drainage chamber with high pressure jets including removing all water arising.</p> <p>(e) Obtaining a disposal permit from Environmental Protection Department and submitting a copy to the Maintenance Surveyor.</p> <p>(f) Keeping surrounding and affected area clean and tidy including sanitizing, cleaning, removing all matter arising.</p>	<p>Rate for “Cleaning out manholes, cesspits, septic tanks, catch pits, grease pits, and other drainage chambers”</p>
<p>XXX. The rates for “Testing existing drains” shall include for : -</p> <p>(a) Cleaning out all pipeline and drainage structure with high pressure water jets before testing.</p> <p>(b) Temporary sealing ends of drains and connections.</p> <p>(c) Provision of all water, material and equipment.</p> <p>(d) Provision of test record.</p>	<p>Testing existing drains</p>
<p>XXXI. The rates for “CCTV inspection survey to existing drains, manholes, cesspits, septic tanks, catch pits, grease pits and other drainage chambers” shall include for : -</p> <p>(a) Clearing all pipeline and drainage structures with high pressure water jets before survey.</p> <p>(b) Providing two copies of CCTV inspection survey reports and two sets of 3R-size digital colour photographs of all identified defects.</p> <p>(c) Providing two sets of CD-rom recordings of all drains, manholes, cesspits, septic tanks, catch pits, grease pits and other drainage chambers inspected.</p>	<p>Rate for “CCTV inspection survey to existing manholes, cesspits, septic tanks, catch pits, grease pits, and other drainage chambers”</p>
<p>XXXII. G.S. clauses for formwork can be found in the Concrete Work Section of the General Specification for Building.</p>	<p>G.S. clauses for formwork</p>
<p>XXXIII. G.S. clauses for cable duct pipes and draw-in-pits can be found in the External Work Section of the General Specification for Building.</p>	<p>G.S. clauses for cable ducting</p>

Item	GRANULAR BEDS FOR DRAIN PIPES								Item									
	Granular bedding as GAS. Items 23.10, 23.30, 23.47 and Particular Specification Items : -								A									
	<i>Per cubic meter</i>								\$									
16001	Beds, hunching or surrounds to pipe.....								161.60	16001								
	CONCRETE BEDS FOR DRAIN PIPES																	
	Concrete Grade 10S, Grade 20D or 20MPa in : -																	
	<i>Per linear meter</i>																	
	Pipe bore (mm)																	
	50	75	80	100	110	150	160	200										
	A	B	C	D	E	F	G	H										
	\$	\$	\$	\$	\$	\$	\$	\$										
16002	Bed 300 mm wider than external diameter of pipe and 100 mm thick under pipe including hunching up after drain is tested from outside edge of bed to meet pipe barrel tangentially.....								29.40	31.30	31.70	33.30	34.10	37.90	-	-	16002	
16003	Ditto but 150 mm thick under pipe including filling up after the drain is tested to mid point of pipe barrel.....								51.30	56.50	57.50	61.60	63.70	72.20	74.20	83.00	16003	
16004	Add to Item 16003 if pipe is completely surrounded after testing with similar concrete not less than 150 mm thick all round.....								46.80	51.40	52.50	56.10	58.10	66.10	68.20	76.80	16004	
	Pipe bore (mm)																	
	225	250	300	315	350	375	400	450										
	A	B	C	D	E	F	G	H										
	\$	\$	\$	\$	\$	\$	\$	\$										
16005	Bed 300 mm wider than external diameter of pipe and 150 mm thick under pipe including filling up after the drain is tested to mid point of pipe barrel.....								89.00	93.80	103.40	106.80	117.80	118.50	124.00	133.50	16005	
16006	Add to Item 16005 if pipe is completely surrounded after testing with similar concrete not less than 150 mm thick all round.....								79.50	84.30	94.30	97.50	102.40	110.50	116.30	127.80	16006	
	Pipe bore (mm)																	
	500	525	600	630	675	700	750	800	825									
	A	B	C	D	E	F	G	H	I									
	\$	\$	\$	\$	\$	\$	\$	\$	\$									
16007	Bed 300 mm wider than external diameter of pipe and 150 mm thick under pipe including filling up after the drain is tested to mid point of pipe barrel.....								142.50	148.10	162.30	168.90	178.70	183.90	195.40	209.80	215.60	16007
16008	Add to Item 16007 if pipe is completely surrounded after testing with similar concrete not less than 150 mm thick all round.....								139.20	145.70	164.50	171.80	185.70	192.80	208.00	220.40	231.30	16008

Item	CONCRETE BEDS FOR DRAIN PIPES (CONT'D)									Item	
	Pipe bore (mm)										
	900	1000	1050	1100	1200	1350	1500	1650	1800		
	A	B	C	D	E	F	G	H	I		
	\$	\$	\$	\$	\$	\$	\$	\$	\$		
16009	<i>Per linear meter</i>										
16009	Bed 300 mm wider than external diameter of pipe and 150 mm thick under pipe including filling up after the drain is tested to mid point of pipe barrel.....	225.40	248.20	255.00	272.90	322.40	357.00	391.80	453.80	427.40	16009
16010	Add to Item 16009 if pipe is completely surrounded after testing with similar concrete not less than 150 mm thick all round.....	253.80	284.00	304.00	319.30	360.30	421.10	486.60	556.50	630.90	16010
Extra over Items 16002 to 16010 inclusive for concrete Grade 20S, Grade 20D or 20MPa									13%		
	CLAYWARE PIPES AND FITTINGS										
	Pipe bore (mm)										
	100	150	225	300	375						
	A	B	C	D	E						
	\$	\$	\$	\$	\$						
16011	<i>Per linear meter</i>										
16011	Pipe laid in trench.....	144.80	160.10	213.60	358.20	603.10				16011	
	Extra over pipe work for :-										
	<i>Each</i>										
16012	Taper pipe.....	-	51.40	129.60	-	-				16012	
16013	Bend.....	95.10	169.50	390.80	-	-				16013	
16014	Single junction.....	163.50	229.40	457.90	704.90	-				16014	
16015	Double junction.....	185.90	261.50	520.60	-	-				16015	
16016	Pipe stopper bedded in cement or lime mortar.....	44.20	54.00	65.10	-	-				16016	
	<i>Per linear meter</i>										
16017	Take up and clear away pipe laid in trench complete with all fittings (trench excavation measured separately).....	7.70	11.10	17.10	24.20	30.20				16017	
16018	Break up and clear away concrete beds and surrounds if any including drain pipes and fittings (ditto).....	27.30	34.10	55.20	72.70	93.20				16018	
	<i>Each</i>										
16019	Remove stopper from pipe and clear away, clean socket and joint new pipe to the same.....	8.20	10.20	13.30	17.00	21.20				16019	
16020	Cut into and remove short length of pipe in position, prepare and make good pipe ends to receive new fittings (measured separately) including cutting into and making good concrete bed or surround afterwards as necessary.....	92.70	119.90	241.30	333.70	451.80				16020	

Item	CLAYWARE TRAPS AND GULLIES					Item
	Traps and gullies with concrete Grade 20S, Grade 20D or 20MPa bed and surround minimum 100 mm thick all round : -	Supply and fix	Take up and clear away	Take up and set aside for re-use	Fix only	
	(Note : - All Items 16021 to 16038 (Columns (A) to (D)) inclusive include for concrete bed and surround or breaking up the same as applicable.)					
	<i>Each</i>	A \$	B \$	C \$	D \$	
16021	Trap with 100 mm bore outlet.....	184.40	16.50	23.40	101.00	16021
16022	Ditto with 150 mm ditto.....	247.90	20.40	29.20	123.00	16022
16023	Ditto with 225 mm ditto.....	492.30	28.20	40.60	158.30	16023
16024	Ditto with 300 mm bore outlet.....	865.20	40.20	52.00	197.40	16024
16025	Gully with 100 mm bore trapped outlet and 150 mm diameter circular or 150 x 150 mm square top rebated for grating (measured separately).....	319.90	27.30	45.60	153.80	16025
16026	Ditto but with 150 mm bore trapped outlet and 225 mm diameter circular or 225 x 225 mm square top ditto (ditto).....	597.60	31.60	52.40	176.20	16026
16027	Add to either of Items 16025 to 16026 for side or back inlet of any bore.....	184.20	4.70	6.90	9.90	16027
16028	Grit or grease gully with 100 mm bore trapped outlet and 225 mm diameter circular or 225 x 225 mm square top rebated for grating (measured separately) complete with removable galvanized steel strainer and handle.....	738.60	30.80	52.50	149.60	16028
16029	Road gully, 300 mm diameter and 600 mm deep, with plain top and 100 mm or 150 mm bore outlet.....	911.30	62.50	97.70	274.60	16029
16030	Ditto but 300 mm diameter and 750 mm deep ditto.....	1,002.40	67.10	106.80	315.00	16030
16031	Ditto but 375 mm diameter and 900 mm deep ditto.....	1,179.20	77.00	118.10	370.60	16031
16032	Add to either of Items 16029 to 16031 for cleaning eye with sealing plate or stopper.....	36.40	-	-	-	16032
16033	Intercepting trap with 100 mm bore outlet and square or oblique inspection arm fitted with clayware stopper in plain or screw pattern joint.....	394.10	18.60	28.10	95.40	16033
16034	Ditto but with 150 mm bore outlet ditto.....	542.70	23.10	35.00	117.70	16034
16035	Ditto but with 225 mm bore outlet ditto.....	852.30	31.90	48.00	147.90	16035
16036	Ditto but with 300 mm bore outlet ditto.....	1,314.70	45.10	62.50	176.60	16036
16037	Ditto but with 375 mm bore outlet ditto.....	1,628.60	54.00	71.90	198.70	16037
16038	Add to either of Items 16033 to 16037 if fitted with galvanized iron stopper and lever handle, 1.80 m long galvanized chain, hook and ring.....	30.60	-	-	-	16038

Item	PLASTIC PIPES AND FITTINGS								Item	
	Pipe bore (mm)									
	110	160	200	250	315	400	500	630		
	A	B	C	D	E	F	G	H		
	\$	\$	\$	\$	\$	\$	\$	\$		
16039	<i>Per linear meter</i>									
	Pipe laid in trench.....	39.60	70.70	107.90	158.90	296.80	640.00	764.20	984.10	16039
	Extra over pipe work for : -									
	<i>Each</i>									
16040	Cap end.....	33.10	67.30	92.80	-	-	-	-	-	16040
16041	Elbow or bend.....	37.70	87.10	138.20	187.60	680.40	7,205.90	7,673.00	8,184.90	16041
16042	Single junction.....	48.80	96.10	177.70	242.00	787.40	7,806.00	9,278.30	9,912.60	16042
16043	Reducer.....	-	82.60	134.20	405.30	531.00	-	-	-	16043
	<i>Per linear meter</i>									
16044	Take up and clear away pipe laid in trench complete with all fittings (trench excavation measured separately).....	6.30	9.40	12.50	16.50	22.10	28.90	40.30	58.10	16044
16045	Break up and clear away concrete beds and surrounds if any including drain pipes and fittings (ditto).....	28.50	42.40	50.00	60.70	76.60	100.60	108.20	184.70	16045
	<i>Each</i>									
16046	Cut into and remove short length of pipe in position, prepare and make good pipe ends to receive new fittings (measured separately) including cutting into and making good concrete bed or surround afterwards as necessary.....	82.60	104.60	123.30	183.30	211.50	313.50	400.70	522.20	16046

Item	CONCRETE PIPES									Item	
	Pipe bore (mm)										
	150	225	300	375	450	525	600	675	750		
	A	B	C	D	E	F	G	H	I		
	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear meter</i>										
16047	Pipe, Class L, unreinforced, laid in trench.....	104.30	146.20	207.10	300.30	437.60	516.60	642.30	681.70	794.10	16047
16048	Pipe, Class L, reinforced, laid in trench.....	-	-	-	-	457.00	541.50	672.10	712.50	830.00	16048
	Extra over pipework for : -										
	<i>Each</i>										
16049	Elbow or bend including cutting pipe ends to profile, making good and grouting joints smooth with cement and sand (1:3) mortar or cast around elbow or bend with concrete surround as required.....	86.10	123.30	166.10	221.70	273.30	325.30	385.00	424.90	483.30	16049
16050	Single junction including cutting through pipe and pipe end to profile, making good and grouting junction smooth with cement and sand (1:3) mortar or cast around junction with concrete surround as required.....	93.10	126.90	167.80	231.20	306.00	370.60	462.10	510.50	602.10	16050
16051	Double junction, ditto.....	186.70	251.30	336.70	464.20	614.60	742.40	920.20	1,021.60	1,207.20	16051
	Pipe bore (mm)										
	825	900	1050	1200	1350	1500	1650	1800			
	A	B	C	D	E	F	G	H			
	\$	\$	\$	\$	\$	\$	\$	\$			
	<i>Per linear metre</i>										
16052	Pipe, Class L, reinforced, laid in trench.....	958.00	1,084.10	1,458.60	1,725.60	2,187.80	2,739.70	3,361.30	3,886.70		16052
	Extra over pipework for : -										
	<i>Each</i>										
16053	Elbow or bend including cutting pipe ends to profile, making good and grouting joints smooth with cement and sand (1:3) mortar or cast around elbow or bend with concrete surround as required.....	572.60	637.50	802.20	943.40	1,134.50	1,350.60	1,602.30	1,797.80		16053
16054	Single junction including cutting through pipe and pipe end to profile, making good and grouting junction smooth with cement and sand (1:3) mortar or cast around junction with concrete surround as required.....	779.90	899.90	1,250.10	1,551.70	2,038.60	2,648.70	3,369.40	4,048.90		16054
16055	Double junction, ditto.....	1,560.70	1,801.40	2,503.90	3,104.40	4,080.30	5,298.60	6,744.00	8,098.90		16055

Item	CONCRETE PIPES (CONT'D)							Item		
	Pipe bore (mm)									
	300	375	450	525	600	675	750			
	A	B	C	D	E	F	G			
	\$	\$	\$	\$	\$	\$	\$			
	<i>Per linear metre</i>									
16056	Pipe, Class M, unreinforced, laid in trench.....	216.20	314.50	458.90	543.70	674.40	715.20	833.20	16056	
16057	Pipe, Class M, reinforced, laid in trench.....	-	-	485.20	575.10	713.80	756.80	881.70	16057	
	Extra over pipework for : -									
	<i>Each</i>									
16058	Elbow or bend including cutting pipe ends to profile, making good and grouting joints smooth with cement and sand (1:3) mortar or cast around elbow or bend with concrete surround as required.....	168.50	225.40	278.40	324.20	392.50	433.00	492.60	16058	
16059	Single junction including cutting through pipe and pipe end to profile, making good and grouting junction smooth with cement and sand (1:3) mortar or cast around junction with concrete surround as required.....	213.00	282.50	363.80	433.70	533.50	586.40	687.20	16059	
16060	Double junction, ditto.....	426.70	565.60	728.00	868.00	1,067.70	1,173.50	1,375.60	16060	
	Pipe bore (mm)									
	825	900	1050	1200	1350	1500	1650	1800		
	A	B	C	D	E	F	G	H		
	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>									
16061	Pipe, Class M, reinforced, laid in trench.....	1,005.20	1,137.80	1,531.10	1,810.80	2,295.80	2,875.10	3,527.70	4,077.90	16061
	Extra over pipework for : -									
	<i>Each</i>									
16062	Elbow or bend including cutting pipe ends to profile, making good and grouting joints smooth with cement and sand (1:3) mortar or cast around elbow or bend with concrete surround as required.....	584.80	651.50	821.00	965.60	1,162.70	1,385.80	1,628.90	1,847.60	16062
16063	Single junction including cutting through pipe and pipe end to profile, making good and grouting junction smooth with cement and sand (1:3) mortar or cast around junction with concrete surround as required.....	877.60	1,007.80	1,385.00	1,710.10	2,233.20	2,887.70	3,659.80	4,387.80	16063
16064	Double junction, ditto.....	1,754.20	2,015.60	2,772.00	3,421.50	4,469.10	5,775.50	7,325.50	8,776.20	16064

Item	CONCRETE PIPES (CONT'D)						Item			
	Pipe bore (mm)									
	375	450	525	600	675	750				
	A	B	C	D	E	F				
	\$	\$	\$	\$	\$	\$				
	<i>Per linear metre</i>									
16065	Pipe, Class H, unreinforced, laid in trench.....	322.60	472.10	558.90	693.70	735.50	856.50	16065		
16066	Pipe, Class H, reinforced, laid in trench.....	-	522.30	583.80	737.10	796.70	950.00	16066		
	Extra over pipework for : -									
	<i>Each</i>									
16067	Elbow or bend including cutting pipe ends to profile, making good and grouting joints smooth with cement and sand (1:3) mortar or cast around elbow or bend with concrete surround as required.....	228.90	283.30	322.70	380.10	436.80	501.50	16067		
16068	Single junction including cutting through pipe and pipe end to profile, making good and grouting junction smooth with cement and sand (1:3) mortar or cast around junction with concrete surround as required.....	312.20	398.50	455.90	530.60	625.50	741.80	16068		
16069	Double junction, ditto.....	624.30	796.80	910.80	1,060.60	1,250.30	1,483.70	16069		
	Pipe bore (mm)									
	825	900	1050	1200	1350	1500	1650	1800		
	A	B	C	D	E	F	G	H		
	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>									
16070	Pipe, Class H, reinforced, laid in trench.....	1,033.60	1,169.80	1,574.20	1,862.10	2,360.70	2,956.30	3,627.10	4,192.50	16070
	Extra over pipework for : -									
	<i>Each</i>									
16071	Elbow or bend including cutting pipe ends to profile, making good and grouting joints smooth with cement and sand (1:3) mortar or cast around elbow or bend with concrete surround as required.....	596.70	664.70	838.90	986.80	1,189.70	1,419.60	1,670.20	1,895.10	16071
16072	Single junction including cutting through pipe and pipe end to profile, making good and grouting junction smooth with cement and sand (1:3) mortar or cast around junction with concrete surround as required.....	943.00	1,080.10	1,479.00	1,824.50	2,376.80	3,067.30	3,881.20	4,650.70	16072
16073	Double junction, ditto.....	1,884.30	2,159.60	2,958.40	3,647.90	4,754.60	6,133.90	7,765.70	9,300.80	16073

Item	CONCRETE PIPES (CONT'D)								Item		
	Pipe bore (mm)										
	150	225	300	375	450	525	600	675			
	A	B	C	D	E	F	G	H			
	\$	\$	\$	\$	\$	\$	\$	\$			
16074	<i>Per linear metre</i>										
	16074	16074	16074	16074	16074	16074	16074	16074	16074		
16074	Take up and clear away pipe laid in trench complete with all fittings (trench excavation measured separately).....	11.10	17.10	24.80	29.40	35.70	44.90	55.20	70.60	16074	
16075	Break up and clear away concrete beds and surrounds if any including drain pipes and fittings (ditto).....	34.10	55.20	72.70	93.20	116.50	142.80	172.10	204.30	16075	
	<i>Each</i>										
16076	Cut into and remove short length of pipe in position, prepare and make good pipe ends to receive new pipes including cutting into and making good concrete bed or surround afterwards as necessary.....	119.90	241.30	333.70	451.80	597.30	779.80	996.00	1,257.40	16076	
	Pipe bore (mm)										
	750	825	900	1050	1200	1350	1500	1650	1800		
	A	B	C	D	E	F	G	H	I		
	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Per linear metre</i>										
16077	Take up and clear away pipe laid in trench complete with all fittings (trench excavation measured separately).....	76.70	89.20	102.70	132.80	166.90	205.00	247.20	293.50	343.80	16077
16078	Break up and clear away concrete beds and surrounds if any including drain pipes and fittings (ditto).....	239.50	277.50	318.60	409.40	512.00	626.40	774.40	890.40	1,040.10	16078
	<i>Each</i>										
16079	Cut into and remove short length of pipe in position, prepare and make good pipe ends to receive new pipes including cutting into and making good concrete bed or surround afterwards as necessary.....	1,562.10	1,915.10	2,324.40	3,606.40	4,592.40	6,170.30	8,082.90	10,367.10	13,058.30	16079

Item	CAST IRON PIPES AND FITTINGS	Pipe bore (mm)					Item
		50	75	100	150	225	
		A	B	C	D	E	
	<i>Per linear metre</i>	\$	\$	\$	\$	\$	
16080	Pipe laid in trench	70.20	126.60	149.40	166.60	368.90	16080
16081	Drop pipe.....	100.40	168.40	200.40	240.10	474.70	16081
	Extra over pipework for : -						
	<i>Each</i>						
16082	Plug to socket end.....	52.90	62.40	69.60	92.40	146.10	16082
16083	Cap to spigot end.....	52.90	63.00	71.20	102.00	146.10	16083
16084	Bend.....	40.30	58.70	71.60	135.50	175.40	16084
16085	Single junction.....	48.60	60.40	77.10	135.70	213.00	16085
16086	Double junction.....	102.20	104.10	123.70	253.30	-	16086
16087	Add to either of Items 16084 to 16086 if fitted with bolted access door.....	8.10	9.70	11.20	12.70	-	16087
	<i>Per linear metre</i>						
16088	Take up and clear away pipe laid in trench complete with all fittings (trench excavation measured separately).....	3.80	5.30	6.50	9.70	15.20	16088
16089	Take up and set aside for re-use ditto.....	8.40	11.10	13.40	17.50	23.00	16089
16090	Break up and clear away concrete beds and surrounds if any including drain pipes and fittings (trench excavation measured separately).....	21.70	24.10	27.30	34.10	55.20	16090
16091	Take down and clear away drop pipe complete with fittings and brackets	4.40	5.40	6.50	9.70	14.80	16091
16092	Take down and set aside for re-use ditto.....	13.10	16.30	20.30	26.40	32.80	16092
16093	Lay only pipe in trench complete with all fittings.....	12.20	15.60	18.10	20.80	23.60	16093
16094	Fix only drop pipe complete with fittings and brackets.....	43.40	57.30	69.10	94.30	129.50	16094
	<i>Each</i>						
16095	Cut or burn out existing joint, clean spigot and socket ends and re-make joint.....	65.50	85.60	105.80	146.20	200.20	16095
16096	Cut or burn out existing joint, remove cap or plug and clear away, clean spigot and socket ends and joint new pipe to the same.....	70.30	89.90	109.30	148.30	200.30	16096
16097	Cut into and remove short length of pipe in position, prepare and make good pipe ends to receive new fittings (measured separately) including cutting into and making good concrete beds or surrounds afterwards as necessary.....	69.10	80.00	91.00	113.00	145.90	16097

Item	CAST IRON TRAPS AND GULLIES					Item
Traps and gullies with concrete Grade 20S, Grade 20D or 20MPa bed and surround minimum 100 mm thick all round : -		Supply and fix	Take up and clear away	Take up and set aside for re-use	Fix only	
(Note : - All Items 16098 to 16113 (Columns (A) to (D)) inclusive include for concrete bed and surround or breaking up the same as applicable.)						
Each		A \$	B \$	C \$	D \$	
16098	Trap with 50 mm bore outlet.....	167.50	14.40	43.60	96.90	16098
16099	Ditto 75 mm ditto.....	236.70	16.90	52.00	111.50	16099
16100	Ditto 100 mm ditto.....	271.20	22.10	69.40	137.20	16100
16101	Ditto 150 mm ditto.....	479.80	28.10	91.10	177.90	16101
16102	Ditto 225 mm ditto.....	878.80	45.50	150.80	265.30	16102
16103	Gully with 100 mm bore trapped outlet and 150 mm diameter circular or 150 x 150 mm square top rebated for grating (measured separately).....	458.00	28.00	80.50	170.00	16103
16104	Ditto but with 150 mm bore trapped outlet and 225 mm diameter circular or 225 x 225 mm square top ditto (ditto).....	676.30	31.10	88.40	199.90	16104
16105	Add to either of Items 16103 to 16104 for side or back inlet.....	181.30	17.80	58.10	78.70	16105
16106	Grit or grease gully with 100 mm bore trapped outlet and 225 mm diameter circular or 225 x 225 mm square top rebated for grating (measured separately) complete with removable galvanized steel strainer and handle.....	872.10	28.00	80.50	188.70	16106
16107	Intercepting trap with 100 mm bore outlet and square or oblique inspection arm fitted with galvanized stopper in plain or screw pattern joint.....	371.90	23.30	71.70	95.40	16107
16108	Ditto but with 150 mm bore outlet ditto.....	523.80	28.60	89.50	117.70	16108
16109	Ditto but with 225 mm bore outlet ditto.....	874.80	39.50	120.90	147.90	16109
16110	Ditto but with 300 mm bore outlet ditto.....	1,121.60	57.90	169.20	176.60	16110
16111	Ditto but with 375 mm bore outlet ditto.....	2,927.70	82.70	237.00	198.70	16111
16112	Ditto but with 600 mm bore outlet ditto.....	4,697.80	130.20	331.70	353.80	16112
16113	Add to either of Items 16107 to 16112 if fitted with cast iron stopper and lever handle, 1.80 m long galvanized chain, hook and ring.....	50.20	-	-	-	16113

Item	DUCTILE IRON PIPES AND FITTINGS									Item	
	Ductile iron pipes and fittings with flexible joint as G.S. Items 23.07 and 23.38 :-	Pipe bore (mm)									
		80	100	150	200	250	300	350	400		450
	<i>Per linear metre</i>	A	B	C	D	E	F	G	H	I	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	
16114	Pipe laid in trench.....	203.30	215.20	313.50	351.40	489.20	646.10	777.80	887.00	1,057.10	16114
16115	Drop pipe.....	294.50	309.70	416.30	462.50	610.20	776.90	919.40	1,039.40	1,226.20	16115
	Extra over pipework for :-										
	<i>Each</i>										
16116	Cover plate for end.....	51.20	62.90	100.40	111.80	178.00	244.40	319.70	401.10	530.10	16116
16117	Socket end (for repair work only).....	101.50	123.30	195.00	215.20	324.10	431.10	448.10	485.60	697.00	16117
16118	Spigot end (for repair work only).....	105.20	127.80	202.30	223.20	336.20	447.40	465.00	503.80	723.60	16118
16119	Connector with screwed end.....	115.60	140.60	222.60	245.20	369.30	492.10	511.50	554.30	795.70	16119
16120	Bend.....	97.00	106.20	154.60	204.20	434.50	507.20	568.90	683.40	708.50	16120
16121	Single junction.....	163.50	181.50	298.90	422.50	827.80	969.60	1,141.90	1,306.40	1,672.30	16121
16122	Double junction.....	166.10	255.10	431.70	480.00	876.30	1,275.50	1,419.20	1,694.90	2,133.70	16122
16123	Add to either of Items 16120 to 16122 if fitted with bolted access door.....	14.30	25.50	40.50	54.80	111.80	176.40	169.50	208.90	272.20	16123
	<i>Per linear metre</i>										
16124	Take up and clear away pipe laid in trench complete with all fittings (trench excavation measured separately).....	6.60	7.70	11.10	15.00	19.40	24.20	27.60	32.90	38.70	16124
16125	Take up and set aside for re-use ditto.....	14.10	16.30	21.30	25.80	29.90	33.80	37.40	40.90	44.20	16125
16126	Break up and clear away concrete beds and surrounds if any including drain pipes and fittings (trench excavation measured separately).....	24.90	27.30	34.10	50.00	60.70	72.70	83.30	100.60	116.50	16126
16127	Take down and clear away drop pipe complete with all fittings and brackets.....	10.60	12.30	17.20	21.50	26.20	31.00	34.60	40.10	45.70	16127
16128	Take down and set aside for re-use ditto.....	24.10	28.00	36.60	42.00	47.00	50.90	55.00	59.10	62.00	16128
16129	Lay only pipe in trench complete with all fittings and gaskets.....	16.90	18.00	20.60	23.30	25.90	28.60	31.30	33.90	36.60	16129
16130	Fix only drop pipe complete with all fittings, brackets and gaskets.....	108.10	112.50	123.50	134.40	146.90	159.40	172.90	186.30	205.70	16130
	<i>Each</i>										
16131	Remove gasket to existing joint and clear away and re-joint with new gasket.....	52.90	58.10	64.00	71.20	78.20	84.80	92.70	98.40	107.00	16131
16132	Remove cover plate and clear away, provide new gasket and cover plate and joint new pipe to the same.....	48.70	53.30	58.60	65.10	71.50	77.40	84.80	89.80	97.80	16132
16133	Cut into and remove short length of pipe in position, provide and joint in pipe ends with new socket/spigot end to receive new fittings (measured separately) including cutting into and making good concrete bed or surround afterwards as necessary.....	283.50	340.50	513.20	640.00	911.00	1,169.90	1,267.60	1,401.20	1,903.20	16133

Item	DUCTILE IRON PIPES AND FITTINGS (CONT'D)								Item
	Ductile iron pipes and fittings with flexible joint as G.S. Items 23.07 and 23.38 : - (cont'd)								
	Pipe bore (mm)								
	500	600	700	800	900	1000	1100	1200	
	A	B	C	D	E	F	G	H	
	\$	\$	\$	\$	\$	\$	\$	\$	
16134	1,293.80	1,663.70	2,454.20	3,358.50	4,262.90	5,167.20	6,071.60	6,976.00	16134
16135	1,479.70	1,871.10	2,683.20	3,609.10	4,535.10	5,461.00	6,386.90	7,312.90	16135
	Extra over pipework for : -								
	Each								
16136	705.00	1,082.50	1,185.90	1,650.00	2,040.00	2,411.90	2,829.00	3,225.50	16136
16137	969.80	1,383.30	1,506.30	1,852.20	2,200.70	2,559.30	2,922.80	3,289.20	16137
16138	1,007.10	1,437.00	1,867.80	1,924.10	2,286.30	2,659.00	3,036.80	3,417.60	16138
16139	1,107.40	1,581.20	2,054.50	2,116.60	2,515.00	2,925.20	3,340.90	3,759.10	16139
16140	778.60	1,160.50	1,542.00	2,277.90	2,767.80	3,266.50	3,769.20	4,274.40	16140
16141	2,190.00	3,222.40	3,786.10	4,070.40	5,470.40	6,843.20	8,196.20	9,534.50	16141
16142	2,735.30	4,032.80	4,951.40	5,392.30	7,230.10	9,035.50	10,818.40	12,585.00	16142
16143	359.80	546.60	713.60	808.20	-	-	-	-	16143
	Per linear metre								
16144	45.00	58.90	75.00	84.60	102.70	121.80	143.70	166.90	16144
16145	47.50	53.60	60.00	64.20	70.20	73.90	80.30	85.00	16145
16146	133.80	172.10	215.70	254.40	318.60	370.70	434.40	512.00	16146
16147	51.90	65.70	82.90	93.10	111.90	131.40	154.30	177.90	16147
16148	65.00	70.90	79.80	85.50	93.30	98.30	106.90	113.00	16148
16149	39.20	44.50	49.80	55.20	60.50	65.80	71.10	76.40	16149
16150	225.10	252.00	278.90	305.70	332.60	359.50	386.40	413.30	16150
	Each								
16151	114.20	126.60	138.80	151.30	163.80	176.40	188.90	201.40	16151
16152	104.30	115.50	126.40	137.70	148.90	160.30	171.60	182.80	16152
16153	2,464.50	3,448.70	4,105.30	4,792.40	5,742.80	6,610.70	7,818.20	8,933.20	16153

Item	SURFACE WATER CHANNELS		Item			
	<i>Per cubic metre</i>	A \$				
16154	Concrete Grade 20S, Grade 20D or 20MPa in surface water channel n.e. 0.10 m ² cross sectional area (void of waterway not deducted) with 75mm (minimum) thick sides and base, level or slope.....	960.70	16154			
16155	Ditto 0.10 - 0.20 m ² cross sectional area.....	839.40	16155			
16156	Ditto 0.20 - 0.40 m ² cross sectional area.....	722.40	16156			
	Add to either of Items 16154 to 16156 inclusive if cast to curve n.e. 3.00 m radius to centre line of waterway.....	25%				
16157	Add to either of Items 16154 to 16156 inclusive for breaking up and carting away existing concrete surface water channel and step surface water channel including clearing away channel cover and any silting in channel, if required.....	126.80	16157			
16158	Add to either of Items 16154 to 16156 inclusive for forming step surface water channel including ditto.....	33.80	16158			
	CAST IRON CHANNEL COVERS					
		Supply and fix	Take up and clear away	Take up and set aside for re-use	Fix only	
	<i>Per kg</i>	A \$	B \$	C \$	D \$	
16159	Cast iron surface channel cover with slots, weight n.e. 24 kg each.....	6.80	1.20	0.80	1.20	16159
16160	Ditto, weight exceeding 24 kg each.....	6.50	1.00	0.70	1.10	16160
	PRECAST CONCRETE CHANNEL COVERS					
	<i>Per square metre</i>					
16161	Precast concrete Grade 20S, Grade 20D or 20MPa channel cover with slots, 25 mm thick including reinforcement.....	287.70	32.60	39.20	55.70	16161
16162	Ditto but 50 mm thick.....	332.90	42.20	50.90	91.40	16162
	GULLY KERBS, HOPPERS AND GRATINGS					
			Size of gully top (mm)			
			75 diameter	150 x 150 or 150 diameter	225 x 225 or 225 diameter	
	<i>Each</i>	A \$	B \$	C \$		
16163	Kerb 75 mm thick and n.e. 150 mm high, around two or three sides of gully top, of concrete Grade 10S, Grade 10D or 10MPa or bricks-on-edge in cement mortar, rendered in 15 mm thick cement and sand (1:3) trowelled smooth on all exposed surfaces and dished to gully, including all necessary formwork.....	22.80	43.60	60.60		16163
16164	Extra for raising concrete surround to trap or gully to a height n.e. 300 mm above top to form hopper (or alternatively providing and fixing glazed clayware or cast iron raising piece surrounded with and including 100 mm thick concrete) including forming rebate around top if required for grouting (measured separately), trowelling all surfaces smooth with cement and sand (1:2), forming all back inlets, and all additional excavation, disposal and formwork.....	53.00	95.30	133.00		16164

Item	GULLY KERBS, HOPPERS AND GRATINGS (CONT'D)	Size of gully top (mm)			Item	
		75 diameter	150 x 150 or 150 diameter	225 x 225 or 225 diameter		
	<i>Each</i>	A \$	B \$	C \$		
16165	Add to Item 16164 for each additional 150 mm or part thereof in height.....	25.90	48.50	66.80	16165	
16166	Galvanized steel or coated cast iron flat or dished grating and set in gully top or concrete surround to trap or gully.....	42.80	53.50	64.20	16166	
16167	Take up and clear away galvanized steel or coated cast iron flat or dished grating set in gully top or concrete surround to trap or gully.....	2.70	3.30	3.90	16167	
16168	Take up and set aside for re-use ditto.....	5.00	5.70	6.40	16168	
16169	Fix only ditto.....	4.10	5.20	6.20	16169	
16170	Galvanized steel or coated cast iron flat or dished hinged grating and frame and set frame in gully top or concrete surround to trap or gully.....	98.80	111.10	123.10	16170	
16171	Take up and clear away galvanized steel or coated cast iron flat or dished hinged grating and frame set in gully top or concrete surround to trap or gully.....	3.30	4.00	4.80	16171	
16172	Take up and set aside for re-use ditto.....	6.50	7.40	8.40	16172	
16173	Fix only ditto.....	8.20	10.50	12.40	16173	
	PRECAST CONCRETE GULLIES					
	Traps and gullies with concrete Grade 20S, Grade 20D or 20MPa bed and surround minimum 100 mm thick all round : - (Note : - All Items 16174 to 16175 (Columns (A) to (D)) inclusive include for concrete bed and surround or breaking up the same as applicable.)	Supply and fix	Take up and clear away	Take up and set aside for re-use	Fix only	
	<i>Each</i>	A \$	B \$	C \$	D \$	
16174	Road gully, 225 mm diameter and 600 mm deep internally with plain top and 100 or 150 mm bore outlet.....	707.60	99.10	70.90	521.30	16174
16175	Ditto but size 450mm diameter and 900mm deep internally.....	1,299.80	168.90	130.20	886.20	16175
	MANHOLES, CESSPITS, SEPTIC TANKS, CATCHPITS, GREASE PITS AND OTHER DRAINAGE CHAMBERS					
	Reinforced concrete Grade 20S, Grade 20D or 20MPa (reinforcement and formwork measured separately) : -		Plain concrete	Reinforced concrete		
	<i>Per cubic metre</i>		A \$	B \$		
16176	Base slabs.....		516.20	529.20	16176	
16177	Walls.....		534.50	537.70	16177	
16178	Suspended slabs.....		516.20	529.20	16178	
	Extra over Item 16176 to 16178 inclusive for reinforced concrete Grade 25S, Grade 25D or 25Mpa.....				8%	
	Extra over Item 16176 to 16178 inclusive for reinforced concrete Grade 30S, Grade 30D or 30Mpa.....				10%	
	Extra over Item 16176 to 16178 inclusive for reinforced concrete Grade 40S, Grade 40D or 40Mpa.....				19%	

Item	MANHOLES, CESSPITS, SEPTIC TANKS, CATCHPITS, GREASE PITS AND OTHER DRAINAGE CHAMBERS (CONT'D)			Item		
		Sawn formwork	Wrot formwork			
		A \$	B \$			
16179	Formwork to base slabs.....	59.30	72.30	16179		
16180	Formwork to walls.....	79.10	93.30	16180		
16181	Formwork to soffit of suspended slabs.....	90.00	104.10	16181		
	<i>Per linear metre</i>					
16182	Formwork to edges n.e. 75 mm wide.....	24.60	29.60	16182		
16183	Ditto but 75 - 150 mm wide.....	25.20	30.40	16183		
16184	Ditto but 150 - 225 mm wide.....	26.50	32.00	16184		
	<i>Per square metre</i>		A \$			
16185	Concrete Grade 20S, Grade 20D or 20MPa benching and channels in any thickness.....		97.50	16185		
	CAST IRON MANHOLE COVERS AND FRAMES	Supply and fix	Take up and clear away	Take up and set aside for re-use	Fix only	
	<i>Each</i>	A \$	B \$	C \$	D \$	
16186	Manhole cover and frame, approximately 37kg.....	233.50	47.80	28.10	43.70	16186
16187	Ditto, approximately 52kg.....	324.30	28.70	39.40	57.50	16187
16188	Ditto, approximately 143kg.....	875.60	78.80	108.60	141.70	16188
16189	Ditto, approximately 178kg.....	1,087.60	98.50	135.20	174.10	16189
16190	Ditto, approximately 192kg.....	1,172.30	105.90	145.70	186.90	16190
16191	Ditto, approximately 308kg.....	1,874.90	170.20	233.90	294.30	16191
16192	Circular manhole cover and manhole frame, approximately 95kg.....	584.80	52.20	72.00	97.30	16192
16193	Double triangular manhole cover and frame approximately 140kg.....	857.40	77.60	106.30	138.90	16193
16194	Gully sump cover and frame, approximately 69kg.....	427.30	38.10	52.30	73.20	16194
16195	Ditto, approximately 83kg.....	512.20	45.80	63.00	86.20	16195
	Deduct from any of Items 16186 to 16195 inclusive for work of manhole cover only or gully sump cover only.....	-	-	(30%)	(30%)	
	STEP IRONS				A \$	
	<i>Each</i>					
16196	Manhole steps as G.S. Item 23.13 built into concrete or grouted into existing mortice.....				55.20	16196
16197	Cut out and clear away existing step iron including making good side or cutting mortice ready to receive new step iron (measured separately).....				10.60	16197

Item	ALTERATION TO EXISTING MANHOLES	Item
	<i>Per square metre</i>	A \$
16198	Hack up existing defective benching of any thickness and re-form with concrete Grade 20S, Grade 20D or 20MPa rendered smooth in 20 mm thick cement and sand (1:3) including forming channels.....	16198 126.00
		Pipe bore (mm)
		50 75 100 150 225
	<i>Each</i>	A B C D E \$ \$ \$ \$ \$
16199	Block up pipe entering manhole for a length of 300 mm with concrete Grade 10S, Grade 10D or 10MPa and make good face of manhole wall.....	16199 23.30 24.20 30.80 34.30 46.70
16200	Cut hole through manhole wall for new pipe entering above manhole invert level, build in pipe end and made good (new drop pipe or bend to discharge into existing channel).....	16200 18.20 30.50 36.40 43.10 68.70
16201	Ditto but for new pipe entering at manhole invert level including cutting out and re-forming benching as necessary, and forming new channel and making good.....	16201 164.20 173.40 199.80 207.90 261.10
	<i>Per cubic metre</i>	A \$
16202	Break up existing manhole and fill in void with graded aggregates or approved hardcore well rammed.....	16202 109.20
	CLEANING OUT EXISTING MANHOLES INCLUDING BRANCHES AND DRAINS BETWEEN MANHOLES, CESSPITS, SEPTIC TANKS, CATCHPITS, GREASE PITS AND OTHER DRAINAGE CHAMBERS	
	<i>Per item</i>	
16203	Cleaning out manholes, cesspits, septic tanks, catch pits, grease pits, and other drainage chambers including branches and connections by using high pressure water jet up to 2200 PSI and 262 litre/min. by an approved specialist for a period not exceeding 8 hours.....	16203 2,898.00
	<i>Each</i>	
16204	Ditto by sludge and sewage vacuum pump/sucker with branch up to 204 mm diameter including hoses n.e. 100 metre long.....	16204 725.00
	(Note : - Items 16203 and 16204 will only be paid for, if ordered by the Maintenance Surveyor in writing.)	
16205	Cleaning out manholes, cesspits, septic tanks, catch pits, grease pits, and other drainage chambers n.e. 2.0 m ³ including branches and connections by using methods other than using high pressure water jet or vacuum pump/sucker.....	16205 350.00
16206	Add to Item 16205 for each additional 2.0 m ³	16206 42.00
	CCTV INSPECTION SURVEY TO EXISTING DRAINS, MANHOLES, CESSPITS, SEPTIC TANKS, CATCH PITS, GREASE PITS AND OTHER DRAINAGE CHAMBERS	
	<i>Per item</i>	
16207	Carrying out CCTV inspection survey to existing drains, manholes, cesspits, septic tanks, catch pits, grease pits and other drainage chambers by an approved specialist for a period not exceeding 8 hours..... (Note : - This item will only be paid for, if ordered by the Maintenance Surveyor in writing.)	16207 4,588.50

Item	TESTING EXISTING DRAINS		Item																																																																																
	<i>Each</i>																																																																																		
16208	Water test as described to existing branch or drain between manholes, up to 150 mm diameter.....	193.10	16208																																																																																
16209	Ditto but for 150 - 300 mm diameter.....	241.30	16209																																																																																
	SUB-SOIL DRAIN PIPES AND DRAINAGE LAYER																																																																																		
	Supply and lay :-																																																																																		
	<i>Per square metre</i>																																																																																		
16210	Proprietary non-woven geotextile filter.....	12.80	16210																																																																																
	Supply and lay :-																																																																																		
	<i>Per linear metre</i>																																																																																		
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49.10	65.10	130.70	282.40	504.30																																																																															
16211	Perforated plastic pipe laid in trench.....		16211																																																																																
	WEEPHOLES THROUGH RETAINING WALLS																																																																																		
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16212	Form weepholes through concrete walls with and including P.V.C. pipe cast in on rake.....		16212																																																																																
16213	Ditto but through brick or stone wall ditto.....		16213																																																																																
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16214	Pipe laid in trench as cable duct.....		16214																																																																																
16215	Take up and clear away ditto.....		16215																																																																																
16216	Take up and set aside for re-use ditto.....		16216																																																																																
16217	Add to either of Items 16215 to 16216 for breaking out and clearing away concrete bed and surround if any.....		16217																																																																																
16218	Lay only pipe in trench as cable duct.....		16218																																																																																

Item	CONCRETE BEDS FOR CABLE DUCT PIPES	Item																																									
	Concrete Grade 10S, Grade 10D or 10MPa in : -																																										
	<i>Per linear metre</i>																																										
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16219	Bed 100 mm thick under pipe or pipes laid side-by-side including haunching up from outside edge of bed to meet pipe barrel tangentially after pipes are laid.....	16219																																									
16220	Add to Item 16219 if pipe or pipes completely surrounded with similar concrete not less than 100 mm thick all round.....	16220																																									
	GRANULAR BEDS FOR CABLE DUCT PIPES																																										
	Granular bedding as G.S. Items 23.10, 23.30 and 23.47 and Particular Specification : -																																										
	<i>Per cubic metre</i>																																										
16221	Beds, haunching or surrounds to pipe or pipes laid side-by-side.....	<table border="1" style="width: 50px; margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">A</td> </tr> <tr> <td style="text-align: center;">\$</td> </tr> <tr> <td style="text-align: center;">161.60</td> </tr> </table>	A	\$	161.60	16221																																					
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16222	Excavate temporary cable draw-in pit n.e. 450 mm deep, deposit surplus material on Site or cart away to dump, maintain sides and backfill with clean sand after cable being laid.....	16222																																									
16223	Ditto but 450 - 600 mm deep.....	16223																																									
16224	Ditto but 600 - 750 mm deep.....	16224																																									
16225	Permanent draw-in pit n.e. 450 mm deep internally (from top of base slab to top of cover slab) constructed of concrete Grade 20S, Grade 20D or 20MPa with 200 mm base slab, 150 mm thick walls and 100 mm thick precast concrete Grade 20S, Grade 20D or 20MPa cover slab extending to outer face of walls and reinforced with and including 10 mm diameter steel rods at 150 mm centres both ways, and set flush with surrounding paving and jointed against the same with mastic, including all necessary excavation, disposal of surplus material on Site or cart away to dump, formwork, leaving 50 mm diameter hole through base slab, forming 450 x 450 x 300 mm deep soakaway sump under and filling the same with 50 mm gauge broken stone, and filling pit with dry sand after cable being laid if ordered.....	16225																																									
16226	Ditto but 450 - 600 mm deep internally.....	16226																																									
16227	Ditto but 600 - 750 mm deep internally.....	16227																																									

Item	MARKER SLABS	Item
	<i>Each</i>	A \$
16228	Precast concrete Grade 20S, Grade 20D or 20MPa marker slab, size 225 x 200 mm and 100 mm thick trowelled smooth with letters or numbers formed in top surface as ordered, and with two 6 mm diameter steel rods cast in and left projecting 225 mm as anchor rods including setting in position flush with ground level over temporary draw-in pit or cable trench.....	26.20 16228
	UTILITY CONNECTION WORKS	
	Add to either of Items 16001 to 16228 inclusive as appropriate for works carried out in connection with Utility Connection and Pavement Works.....	15%

Section 17

LABOUR

LABOUR

SPECIAL CONDITIONS

- Payment for labour**
- I. Wherever possible, work executed under the Contract shall be measured and paid for as trade items. Payment for labour on an hourly basis will not be made except in special circumstances where specifically ordered in writing by the Maintenance Surveyor.
- Measurement generally**
- II. The measurement of labour shall be the aggregate time employed on the item of labour to the nearest hour for any time in a 24-hour day (from 00:00 hour to 24:00 hour on the same day) including all Sundays and General Holidays. No measurement shall be made for meal breaks, rest period and travelling time. The Contractor will be paid for those labours who are actually at work and ordered by the Maintenance Surveyor in writing.
- Allowance for overtime work and any cost/expenses incurred therein is deemed to be included in the contract percentage(s) applied to the Contract. Reference shall also be made to General Regulations Clauses IV and XI.
- Rates generally**
- III. The rates for labour shall include for : -
- (a) Work being in any district.
 - (b) Use and maintenance of hand tools and appliances, non-mechanical plant and equipment (such as ladders, trestles, stages, temporary track, wagons, skips and similar items).
 - (c) Protective clothing and safety equipment.
 - (d) Contractor's site supervision and employee insurance.
 - (e) Meal breaks and rest periods.
 - (f) Contractor's profit, establishment charges and overheads.
 - (g) Allowance for travelling expenses and time to and from the Site.
 - (h) Pager and mobile phone including payment of all charges incurred.
- Measurement of special attendance on Building Works and on Building Services Installation**
- IV. The measurement of special attendance on Building Works and on Building Services Installation shall be the time required for the labour or electrician to stand-by and to provide any attendance or services as directed by the Maintenance Surveyor in the Works Order.

Item	LABOUR		Item
	BUILDING WORKS	A	
	<i>Per hour</i>	\$	
17001	Male labour.....	58.90	17001
17002	Female labour.....	52.70	17002
17003	Concretor, bricklayer and drainlayer.....	89.90	17003
17004	Mason.....	92.20	17004
17005	Bamboo worker and scaffolder.....	112.00	17005
17006	Carpenter and joiner.....	105.60	17006
17007	Blacksmith.....	80.30	17007
17008	Steel bender.....	115.40	17008
17009	Structural steel erector.....	85.20	17009
17010	Plasterer.....	88.00	17010
17011	Terrazzo and granolithic worker.....	78.10	17011
17012	Plumber.....	84.00	17012
17013	Fitter.....	83.60	17013
17014	Glazier.....	70.80	17014
17015	Painter.....	79.30	17015
17016	Plant operator (Excavator driver, bulldozer driver, etc.).....	79.80	17016
17017	Heavy load coolie.....	79.90	17017
17018	Pneumatic driller.....	89.60	17018
	BUILDING SERVICES INSTALLATION		
	<i>Per hour</i>		
17019	Electrician.....	80.70	17019
17020	MVAC and E/M mechanic (MVAC, Catering and Genset).....	87.00	17020
17021	Lift mechanic.....	87.00	17021
17022	Fire Services mechanic.....	82.80	17022
17023	Medical Gas mechanic.....	92.10	17023
17024	Town Gas/LP Gas mechanic.....	92.10	17024
17025	Electronic technician (Burglar Alarm and Security, Public Address and Broadcast Reception).....	82.70	17025
	GENERAL		
	<i>Per hour</i>		
17026	Security guard.....	26.80	17026

Item	LABOUR (CONT'D)		Item
SPECIAL ATTENDANCE ON BUILDING WORKS AND ON BUILDING SERVICES INSTALLATION			
<i>Per hour</i>			
17027	Labour for attending Building Works.....	58.90	17027
17028	Electrician for attending Building Services Installation.....	80.70	17028

Section 18

PLANT HIRE AND SERVICES

PLANT HIRE AND SERVICES

SPECIAL CONDITIONS

PLANT HIRE

**Measurement
of plant hire**

- I. Wherever possible, work executed under the Contract shall be measured and paid for at the rates of the appropriate Section in this Schedule. No measurement will be made for plant hire unless specifically ordered by the Maintenance Surveyor in writing.

The measurement of hired plant shall be the aggregate time hired on the item of plant to the nearest hour for any time in a 24-hour day (from 00:00 hour to 24:00 hour on the same day) including all Sundays and General Holidays. No measurement shall be made for standing time, mobilization and demobilization time. The Contractor will be paid for those plants who are actually at work and ordered by the Maintenance Surveyor in writing.

Allowance for overtime work and any cost/expenses incurred therein is deemed to be included in the contract percentage(s) applied to the Contract. Reference shall also be made to General Regulations Clauses IV and XI.

All hired plant brought onto the Site shall be in good condition and remain in good condition. Should the plant hired to Government break down or be found unserviceable, no payment shall be made for replacement of the same.

**Rates
generally**

- II. The rates shall generally include for : -
- (a) Mobilization and demobilization of all hired plants to and from the Site.
 - (b) Plant operator (for crane, excavator, Bobcat, roller, concrete pump and access platform), driver and attendant.
 - (c) Fuel, lubricants, consumable stores, maintenance and repair.
 - (d) Contractor's profit, establishment charges and overheads.
 - (e) Insurances, licence fees, patent rights and royalties where applicable.

SERVICES

**Measurement
of services**

- III. Throughout this Schedule, rates for all trades shall include for providing temporary offices, drinking water and latrines as in G.S. Item 1.28 for the period of uses throughout the Works Order period. No payment will be made for providing and maintenance of container office and portable toilets under any circumstances, except for the following ordered by the Maintenance Surveyor specifically in writing : -

- (a) Container office and portable toilets for the exclusive use of the Employer other than site supervisory staff.

**Rates for
temporary
container
office**

- IV. The rates for temporary container office shall include for : -
- (a) Mobilization and demobilization of temporary container office.
 - (b) Fitting out with internal finishes complete with door, windows, lighting, power socket and room cooler (power supply measured separately).
- Internal finishes shall be as follows : -
- (i) Walls - painted or plastic veneered plywood including insulation.
 - (ii) Ceiling - painted or acoustic tiles with insulation.
 - (iii) Floors - PVC floor tiles or sheeting.

SPECIAL CONDITIONS (CONT'D)SERVICES (CONT'D)

- | | | |
|-----|--|--|
| IV. | (c) Provision of adequate lighting, air-conditioning and ventilation including payment of all charges. | Rates for temporary container office (cont'd) |
| | (d) Forming and levelling ground for resting of container office. | |
| | (e) Providing MCB board for electricity supply connection. | |
| | | |
| V. | The rates for portable toilet shall include for : - | Rates for portable toilet |
| | (a) Mobilization and demobilization of portable toilet. | |
| | (b) Regularly pumping, desludging and clearing away soil and waste. | |
| | (c) Cleaning and sanitizing the interior and exterior of the portable toilet to ensure that the portable toilet is always kept clean, tidy and hygienic including cleaning and sanitizing as directed by the Maintenance Surveyor. | |
| | (d) Filling and regularly re-filling flushing water, fresh water and toilet paper and maintaining water and toilet paper available at all times. | |
| | (e) Re-charging deodorizer when required. | |
| | (f) Replacement of portable toilet which is not serviceable. | |
| | (g) Forming and levelling ground for resting of portable toilets. | |
| | (h) Reinstatement and making good surfaces disturbed at demobilization. | |
| | (i) Government dumping charges. | |

Item	PLANT HIRE AND SERVICES	Hire Charge	Item
	<i>Per hour</i>	A \$	
18001	Air compressor, silenced machine (3.0 m ³ /min. at 7 kg/cm ²) with two 15 m hoses and two breakers including one operator for compressor.....	63.90	18001
18002	Ditto, (6.0 m ³ /min. at 7 kg/cm ²) with four 15 m hoses and four breakers including one operator for compressor.....	87.50	18002
18003	Van, pick up or similar utility vehicle, capacity 1.30 tonnes.....	104.80	18003
18004	Ditto, up to 2.60 tonnes.....	121.50	18004
18005	Lorry (highway use) n.e. 6.5 tonnes.....	110.60	18005
18006	Ditto, 12.0 tonnes.....	124.90	18006
18007	Ditto, 24.5 tonnes.....	187.00	18007
18008	Lorry with tipper (highway use) n.e. 11.0 tonnes.....	120.30	18008
18009	Ditto, 25 tonnes.....	195.70	18009
18010	Extra over either of Items 18005 to 18007 inclusive for lorry fitted with crane attachment, maximum load n.e. 3.5 tonnes.....	9.80	18010
18011	Ditto exceeding 3.5 tonnes.....	13.80	18011
18012	Excavator, full circle slew crawler or wheel mounted with backacter, 6 tonnes.....	183.70	18012
18013	Ditto, 11 tonnes.....	198.60	18013
18014	Ditto, 21 tonnes.....	288.80	18014
18015	Ditto, 30 tonnes.....	378.80	18015
18016	Extra over Items 18012 to 18015 inclusive for machine mounted percussion breaker up to 500 kg.....	44.90	18016
18017	Ditto up to 1000 kg.....	81.10	18017
18018	Ditto up to 2000 kg.....	122.50	18018
18019	"Bobcat" Model 751 or 753 skid steer loader.....	171.90	18019
18020	Crane, lorry mounted or all terrain, 12 tonnes.....	304.10	18020
18021	Ditto, 20 tonnes.....	382.30	18021
18022	Ditto, 45 tonnes.....	503.60	18022
18023	Ditto, 90 tonnes.....	951.00	18023
18024	Ditto, 135 tonnes.....	1,516.20	18024
18025	Ditto, 200 tonnes.....	1,806.00	18025
18026	Ditto, 300 tonnes.....	2,961.20	18026

Item	PLANT HIRE AND SERVICES (CONT'D)	Hire Charge	Item
		A \$	
	<i>Per hour</i>		
18027	Access platform, scissor lift self propelled, yard travel, capacity up to 400 kg.....	45.50	18027
18028	Ditto, up to 800 kg.....	70.20	18028
18029	Ditto, exceeding 800 kg.....	92.70	18029
18030	Access platform, telescopic self propelled, yard travel, capacity up to 400 kg and platform height up to 10.0 metre.....	54.70	18030
18031	Ditto, capacity up to 400 kg and platform height exceeding 10.0 metre.....	107.60	18031
18032	Access platform, vehicle mounted, telescopic/articulated in any capacity and platform height up to 20.0 metre.....	89.10	18032
18033	Ditto, platform height up to 30.0 metre.....	247.80	18033
18034	Ditto, platform height exceeding 30.0 metre.....	814.20	18034
18035	Generator set, 330.0 kVA.....	203.10	18035
18036	Concrete mixer (tilting drum type), wet capacity 100 litres.....	14.40	18036
18037	Ditto, wet capacity 200 litres.....	25.30	18037
18038	Concrete pump, lorry mounted including boom, cleaning equipment and piping in any diameter n.e. 200 metre long.....	453.40	18038
18039	Pumps, portable, double diaphragm, discharge branch up to 51 mm diameter including hoses n.e. 100 metre long.....	40.20	18039
18040	Ditto, up to 102 mm diameter.....	53.60	18040
18041	Pumps, portable, sludge and sewage, discharge branch up to 102 mm diameter including hoses n.e. 100 metre long.....	55.60	18041
18042	Ditto, up to 204 mm diameter.....	115.50	18042
18043	Pumps, portable, electric submersible, discharge branch up to 51 mm diameter including hoses n.e. 100 metre long.....	37.90	18043
18044	Ditto, up to 102 mm diameter.....	50.70	18044
18045	Concrete vibrator poker, diesel driven.....	14.90	18045
18046	Vibrating plate compactor weight up to 200 kg.....	17.20	18046
18047	Ditto, weight up to 300 kg.....	21.20	18047
18048	Ditto, weight up to 500 kg.....	35.60	18048
18049	Jumping rammer including trolley weight up to 100 kg.....	12.60	18049
18050	Roller, road deadweight (steel 3 wheel/3 roll, diesel), unballasted weight/tonnes up to 6.10.....	136.10	18050
18051	Ditto, unballasted weight/tonnes up to 10.50.....	141.90	18051
18052	Ditto, unballasted weight/tonnes up to 13.00.....	129.40	18052

Item	PLANT HIRE AND SERVICES (CONT'D)	Item	
		Hire Charge	
		A	
		\$	
	<i>Per hour</i>		
18053	Roller, self propelled vibratory tandem (seated control), maker's weight up to 2.5 tonnes.....	103.60	18053
18054	Ditto, up to 5.0 tonnes.....	135.20	18054
18055	Ditto, up to 9.0 tonnes.....	184.60	18055
18056	Ditto, up to 12.0 tonnes.....	214.00	18056
18057	Welding set (diesel), 300 Amp., single operator complete with electrodes cables, welding shields and torches.....	30.40	18057
18058	Oxy-acetylene welding and cutting set complete with face shields, torches, hoses, gloves, oxygen and acetylene.....	23.50	18058
	SERVICES		
	Temporary container office : -		
	<i>Per month</i>		
18059	Container office, 20 feet long.....	1,242.00	18059
	Portable toilet : -		
	<i>Per month</i>		
18060	Portable toilet equipped with open waste tank.....	2,100.80	18060
18061	Ditto but of handicapped type.....	2,645.10	18061
18062	Portable toilet equipped with flushing system.....	3,135.80	18062
18063	Portable toilet equipped with flushing system and wash hand basin.....	3,480.80	18063

Section 19

CONVEYANCE

CONVEYANCE

SPECIAL CONDITIONS

Measurement of conveyance of articles or materials by land vehicle

- I. Conveyance of articles or materials by land vehicle shall only be measured where such conveyance is not included under any items in other Sections of this Schedule and is specifically ordered in writing by the Maintenance Surveyor.

One trip is defined as the door-to-door conveyance of articles or materials from the starting place to last designated location which may include one or more designated stops irrespective of the numbers of individual sections of transport in between.

In the case of conveyance of articles or materials within the Site, measurement shall be made in accordance with the appropriate items in Section 17 - Labour and/or Section 18 - Plant Hire and Services of this Schedule.

Rates for conveyance of articles or materials by land vehicle

- II. The rates for conveyance by land vehicle shall generally include for : -
- (a) Moving from the designated location to new position as directed by the Maintenance Surveyor.
 - (b) Lowering and hoisting including taking from or to any floor or roof of an existing building or structure.
 - (c) Loading and unloading.
 - (d) Transporting to and return journey of packing and personnel as required.
 - (e) Neatly stacking, storing or leaving in the required new position.
 - (f) Provision of driver and all labour, tools and plant necessary including levers, ropes, planks, rollers, wheelbarrows, trucks, lorries and the like.
 - (g) Provision of any necessary temporary packing, securing ropes and the like, and properly securing and keeping the articles or materials secured during transit.
 - (h) Repairing and making good or replacing at the Maintenance Surveyor's discretion any articles or materials damaged during moving, loading, transit, unloading, and moving to new position, store or stack.
 - (i) All tunnel or bridge tolls.
 - (j) All costs in respect of loading, unloading and delivery of articles or materials from and to remote area where no vehicular access is available.
 - (k) Dismantling and reassembling composite articles, if required.
 - (l) Obtaining access licenses and permits.
 - (m) Insurance of all materials or articles being conveyed and supervising staff on board.

SPECIAL CONDITIONS (CONT'D)

- III. Conveyance of articles or materials by helicopter shall only be measured where such conveyance is not included under any items in other Sections of this Schedule and is specifically ordered in writing by the Maintenance Surveyor.

**Measurement
of conveyance
of articles or
materials by
helicopter**

One trip is defined as the conveyance of articles and materials from the time when the helicopter leaves the flying base to the time when it lands at the flying base. The helicopter shall be fuelled adequately for any flights over 90 minutes before it flies. No measurement shall be made for any time required for first fuelling. However, when a flight exceeds 90 minutes and where no access can be provided for the re-fuelling vehicle to the designated locations for loading or unloading, the time for re-fuelling to and from the flying base shall also be measured.

Conveyance by helicopter for the first 30 minutes shall be measured per trip. Conveyance after the first 30 minutes shall be measured to the nearest five minutes.

In the case of conveyance of articles or materials within the Site, measurement shall be made in accordance with the appropriate items in Section 17 - Labour and/or Section 18 - Plant Hire and Services of this Schedule.

- IV. The rates for conveyance by helicopter shall include for :-

**Rates for
conveyance
of articles or
materials by
helicopter**

- (a) Lowering to and hoisting from the designated locations for loading or unloading.
- (b) Provision of pilot and lifting equipment certified by an independent specialist.
- (c) Provision of any necessary temporary packing, securing ropes and the like, and properly securing and keeping the articles or materials secured during transit.
- (d) Insurance of all materials or articles being conveyed and supervising staff on board.
- (e) Training course at the flying base for the Employer's ground crew for loading and unloading.
- (f) A loadmaster at the designated location for loading where the helicopter can land nearby.
- (g) Radio communication between the loadmaster and the pilot where load master is provided.
- (h) Any advance payment made to the specialist helicopter conveyance company.

Item	CONVEYANCE	Conveyance of articles or materials		Item
		Inside Contract area	Outside Contract area	
		A \$	B \$	
	BY LAND VEHICLE			
	<i>Per trip</i>			
19001	Van, pick up or similar utility vehicle, carrying capacity up to 1.30 tonnes.....	200.50	294.50	19001
19002	Ditto but up to 2.60 tonnes.....	261.20	376.20	19002
19003	Lorry, plated gross vehicle weight up to 6.50 tonnes.....	262.50	366.00	19003
19004	Ditto but up to 7.50 tonnes.....	286.90	393.70	19004
19005	Ditto but up to 12.00 tonnes.....	335.00	449.20	19005
19006	Ditto but up to 14.00 tonnes.....	375.90	498.50	19006
19007	Ditto but up to 17.00 tonnes.....	452.70	591.60	19007
19008	Ditto but up to 24.50 tonnes.....	604.00	768.40	19008
19009	Ditto but up to 30.00 tonnes.....	647.40	817.10	19009
19010	Ditto, articulated up to 33.00 tonnes.....	737.70	924.80	19010
19011	Ditto, articulated up to 39.00 tonnes.....	767.00	951.80	19011
19012	Extra over Items 19003 to 19011 inclusive for lorry fitted with crane attachment maximum load up to 3.50 tonnes.....	64.90	79.20	19012
19013	Extra over Items 19003 to 19011 inclusive for lorry fitted with crane attachment maximum load exceeding 3.50 tonnes.....	91.70	111.80	19013
	BY HELICOPTER			
	<i>Per trip</i>			
19014	Helicopter, carrying capacity up to 800 kilogrammes, for the first 30 minutes.....		8,390.70	19014
	<i>Each</i>			
19015	Add to Item 19014 for each subsequent 5 minutes (measured to the nearest 5 minutes).....		1,398.50	19015

Section 20

CARPETING

CARPETING

SPECIAL CONDITIONS

Measurement of carpeting	I. All works shall be measured over the net area covered to horizontal, sloping or vertical surfaces including additional girth of upstands, curbs, channels and the like. No deduction shall be measured for voids not exceeding 0.50 m ² .
Rates for carpeting or carpeting with underlays generally	<p>II. The rates for carpeting or carpeting with underlays shall generally include for : -</p> <p>(a) Working to narrow widths and small areas.</p> <p>(b) Working to flat or sloping surfaces.</p> <p>(c) New and existing surfaces.</p> <p>(d) All necessary cleaning and preparation of substrate prior to the laying of carpet, carpet tiles or underlays.</p> <p>(e) Tapes, adhesive, carpet grippers and seaming cement where necessary.</p> <p>(f) Laying of carpets including straight, raking or circular cutting and waste, seaming and jointing as G.S. Item 18.145, sewing and fixing all smooth edges and carpet trims.</p> <p>(g) Fixing and trimming, cutting and fitting carpets to floor mounted services outlets including electric power point, telephone box, recessed removable covers and the like including binding edges as required.</p> <p>(h) Bonding to match existing works.</p> <p>(i) Protection and cleaning.</p> <p>(j) Provision of samples, literature, test certificates, manufacturer's guarantee and the like for carpet and underlays.</p>
Rates for carpet tiles	<p>III. The rates for carpet tiles shall further include for : -</p> <p>(a) Release agent where necessary.</p> <p>(b) Treating surfaces with "Scotch-guard" or other approved protective treatment.</p>
Rates for "Take up and clear away existing carpet or carpet tiles" generally	<p>IV. The rates for "Take up and clear away existing carpet or carpet tiles" shall generally include for : -</p> <p>(a) Taking up and clearing away existing carpet by hand or power tools or both.</p> <p>(b) Removal of associated adhesive and release agent.</p> <p>(c) Removal of associated underlays and carpet grippers.</p> <p>(d) Making good affected surfaces.</p>
Measurement of entrance matting	V. Entrance matting shall be measured the net area fixed. Forming matt well shall be measured elsewhere in this Schedule.

SPECIAL CONDITIONS (CONT'D)

- VI. The rates for entrance matting shall include for : - **Rates for entrance matting**
- (a) Working to narrow widths and small areas.
 - (b) Working to flat or sloping surfaces.
 - (c) New and existing surfaces.
 - (d) All necessary framing and fixing accessories.
 - (e) All necessary cleaning and preparation of substrate prior to the fixing of entrance matting.
 - (f) Protection and cleaning.
 - (g) Provision of samples, literature, test certificates and manufacturer's guarantee

SPECIFICATION FOR CARPETS AND CARPET TILES

- VII. G.S. clauses for carpeting can be found in the Finishes Section of the General Specification for Building. **G.S. clauses**
- VIII. Specification for "Environmentally Friendly Carpet" shall refer to the Particular Specification for Carpeting in the Contract.

Item	HEAVY CONTRACT QUALITY CARPET	Item
	CARPET; FULLY ADHERING METHOD	
	Supply and lay carpet as G.S. and Particular Specification with all types of backing and in any series and colour finish required : -	
	<i>Per square metre</i>	
20001	Carpet laid with adhesive.....	20001
20002	Carpet laid with adhesive and release bond agent.....	20002
	Supply and lay carpet including backing as "Environmentally Friendly Carpet" as G.S. and Particular Specification in any series and colour finish required : -	
	<i>Per square metre</i>	
20003	Carpet laid with adhesive.....	20003
20004	Carpet laid with adhesive and release bond agent.....	20004
	Supply and lay carpet including backing as "Environmentally Friendly Carpet" as G.S. and Particular Specification in any series and colour finish required : -	
	<i>Per square metre</i>	
20005	Carpet laid with adhesive.....	20005
20006	Carpet laid with adhesive and release bond agent.....	20006
	Alterations and repairs : -	
	<i>Per square metre</i>	
20007	Take up and clear away existing carpet of any type.....	20007
20008	Take up existing carpet of any type and set aside for re-use.....	20008
20009	Lay or fix only carpet of any type with adhesive.....	20009
20010	Lay or fix only carpet of any type with adhesive and release bond agent.....	20010
	CARPET; GRIPPER METHOD	
	Supply and lay carpet as G.S. and Particular Specification with all type of backing and in any series and colour finish required : -	
	<i>Per square metre</i>	
20011	Carpet laid with grippers.....	20011
20012	Ditto with underlays.....	20012

Carpet					
Pile weight (kg/m ²)					
n.e. 1.50			exc. 1.50		
to floor	to stairs	to wall	to floor	to stairs	to wall
A	B	C	D	E	F
\$	\$	\$	\$	\$	\$
166.00	178.80	176.30	193.70	207.90	205.30
173.60	187.60	184.50	201.30	216.60	213.50

Carpet					
Pile weight (kg/m ²)					
n.e. 1.00			exc. 1.00		
to floor	to stairs	to wall	to floor	to stairs	to wall
A	B	C	D	E	F
\$	\$	\$	\$	\$	\$
268.70	286.50	283.90	290.80	309.60	307.00
276.40	295.30	292.20	298.40	318.30	315.30

Carpet		
Pile density (fibre/m ²)		
exc. 75 million		
to floor	to stairs	to wall
A	B	C
\$	\$	\$
362.40	384.60	382.10
370.10	393.40	390.30

Carpet		
to floor	to stairs	to wall
A	B	C
\$	\$	\$
6.30	7.50	7.00
15.40	20.10	18.10
21.60	27.60	25.00
29.20	36.40	33.30

Carpet			
Pile weight (kg/m ²)			
n.e. 1.50		exc. 1.50	
to floor	to stairs	to floor	to stairs
A	B	C	D
\$	\$	\$	\$
167.30	211.50	195.00	240.60
193.20	239.80	220.90	268.80

Item	HEAVY CONTRACT QUALITY CARPET (CONT'D)					Item
	CARPET; GRIPPER METHOD (CONT'D)	Carpet				
		Pile weight (kg/m ²)				
		n.e. 1.00		exc. 1.00		
		to floor	to stairs	to floor	to stairs	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per square metre</i>					
20013	Carpet laid with grippers.....	270.10	319.20	292.10	342.30	20013
20014	Ditto with underlays.....	296.00	347.40	318.00	370.50	20014
	Alterations and repairs : -	Carpet				
		to floor		to stairs		
		A	B			
		\$	\$			
	<i>Per square metre</i>					
20015	Take up and clear away existing carpet of any type with or without underlay.....			6.40	7.60	20015
20016	Take up existing carpet of any type and set aside for re-use.....			15.70	20.50	20016
20017	Ditto but including underlays.....			18.80	24.40	20017
20018	Lay only carpet of any type with and including grippers.....			23.00	60.30	20018
20019	Ditto with underlays ditto.....			26.80	65.40	20019
20020	Lay only carpet of any type including provision of new underlays and clear away old underlays ditto.....			49.90	89.60	20020
	100% PURE WOOL CARPET; GRIPPER METHOD	Carpet				
		Pile weight (kg/m ²)				
		n.e. 2.05		exc. 2.05		
		to floor	to stairs	to floor	to stairs	
		A	B	C	D	
		\$	\$	\$	\$	
	<i>Per square metre</i>					
20021	Carpet 'machine tufted' laid with grippers.....	464.20	522.60	500.60	561.70	20021
20022	Ditto with underlays.....	490.10	550.80	527.20	590.90	20022
20023	Carpet 'hand made' laid with grippers.....	1,033.50	1,118.90	1,193.30	1,286.30	20023
20024	Ditto with underlays.....	1,059.40	1,147.20	1,219.20	1,314.60	20024
	Alterations and repairs : -	Carpet				
		to floor		to stairs		
		A	B			
		\$	\$			
	<i>Per square metre</i>					
20025	Take up and clear away existing carpet of any type.....			6.40	7.60	20025
20026	Take up existing carpet of any type and set aside for re-use.....			15.70	20.50	20026
20027	Ditto but including underlays.....			18.80	24.40	20027
20028	Lay only carpet of any type with and including grippers.....			23.00	60.30	20028
20029	Ditto with underlays ditto.....			26.80	65.40	20029
20030	Lay only carpet of any type including provision of new underlays and clear away old underlays ditto.....			49.90	89.60	20030

Item	HEAVY CONTRACT QUALITY CARPET TILE	Item																																				
	CARPET TILE; FULLY ADHERING METHOD																																					
	Supply and lay carpet tiles module size n.e. 0.40 m ² in all type of backing and in all series and colour finish required : -																																					
	<i>Per square metre</i>																																					
		<table border="1"> <thead> <tr> <th colspan="6">Carpet tiles</th> </tr> <tr> <th colspan="6">Pile weight (kg/m²)</th> </tr> <tr> <th colspan="3">n.e. 1.00</th> <th colspan="3">exc. 1.00</th> </tr> <tr> <th>to floor</th> <th>to stairs</th> <th>to wall</th> <th>to floor</th> <th>to stairs</th> <th>to wall</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>	Carpet tiles						Pile weight (kg/m ²)						n.e. 1.00			exc. 1.00			to floor	to stairs	to wall	to floor	to stairs	to wall	A	B	C	D	E	F	\$	\$	\$	\$	\$	\$
Carpet tiles																																						
Pile weight (kg/m ²)																																						
n.e. 1.00			exc. 1.00																																			
to floor	to stairs	to wall	to floor	to stairs	to wall																																	
A	B	C	D	E	F																																	
\$	\$	\$	\$	\$	\$																																	
20031	Carpet tiles laid with adhesive.....	20031																																				
20032	Ditto laid with adhesive and release bond agent.....	20032																																				
	Supply and lay carpet tiles module size n.e. 1.00 m ² including backing as "Environmentally Friendly Carpet" as G.S. and Particular Specification in any series and colour finish required : -																																					
	<i>Per square metre</i>																																					
20033	Carpet tiles laid with adhesive.....	20033																																				
20034	Ditto laid with adhesive and release bond agent.....	20034																																				
	Supply and lay carpet tiles module size n.e. 0.40 m ² including backing as "Environmentally Friendly Carpet" as G.S. and Particular Specification in any series and colour finish required : -																																					
	<i>Per square metre</i>																																					
		<table border="1"> <thead> <tr> <th colspan="3">Carpet tile</th> </tr> <tr> <th colspan="3">Pile density (fibre/m²)</th> </tr> <tr> <th colspan="3">exc. 75 million</th> </tr> <tr> <th>to floor</th> <th>to stairs</th> <th>to wall</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>	Carpet tile			Pile density (fibre/m ²)			exc. 75 million			to floor	to stairs	to wall	A	B	C	\$	\$	\$																		
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20035	Carpet tiles laid with adhesive.....	20035																																				
20036	Ditto, laid with adhesive and release bond agent.....	20036																																				
	Alterations and repairs : -																																					
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Carpet																																						
to floor	to stairs	to wall																																				
A	B	C																																				
\$	\$	\$																																				
20037	Take up and clear away existing carpet tiles of any type.....	20037																																				
20038	Take up existing carpet tiles of any type and set aside for re-use.....	20038																																				
20039	Lay only carpet tiles of any type with adhesive.....	20039																																				
20040	Lay only carpet tiles of any type with adhesive and release bond agent.....	20040																																				

Item	ENTRANCE MATTING				Item	
	Supply and install Local/China origin entrance matting comprises aluminium rolling mat strips and frames and aluminium/rubber/carpet scraper strip in any colour, profile spacing and finish : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	<i>Per square metre</i>	A \$	B \$	C \$	D \$	
20041	Heavy duty entrance matting, ribbed carpet/grooved rubber/brush/aluminium scraper finished strip, n.e. 17 mm height.....	3,611.90	36.10	59.90	103.60	20041
20042	Ditto, 17 - 22 mm height.....	3,710.40	36.10	59.90	103.60	20042
20043	Ditto, 22- 27 mm height.....	3,858.20	36.10	59.90	103.60	20043
	Add to either of Items 20041 to 20043 inclusive for entrance matting of European or American origin.....	30%	-	-	-	
	SUPPLY ONLY OF MATERIALS					
	<i>Per square metre</i>				A \$	
20044	Fully adhered or loosely laid carpet, pile weight n.e. 1.50 kg/m ² delivered to Site.....				133.60	20044
20045	Fully adhered or loosely laid carpet, pile weight exceeding 1.50 kg/m ² delivered to Site.....				159.20	20045
20046	Fully adhered or loosely laid "Environmental Friendly "carpet, pile weight n.e. 1.00 kg/m ² delivered to Site.....				228.60	20046
20047	Fully adhered or loosely laid "Environmental Friendly" carpet, pile weight exc. 1.00 kg/m ² delivered to Site.....				249.00	20047
20048	Carpet tile module size n.e. 0.40 m ² , pile weight n.e. 1.00 kg/m ² delivered to Site.....				151.10	20048
20049	Carpet tile module size n.e. 0.40 m ² , pile weight exc. 1.00 kg/m ² delivered to Site.....				175.40	20049
20050	"Environmental Friendly" Carpet tiles size n.e. 1.00 m ² , pile weight n.e. 1.00 kg/m ² delivered to Site.....				262.80	20050
20051	"Environmental Friendly" Carpet tiles size n.e. 1.00 m ² , pile weight exc. 1.00 kg/m ² delivered to Site.....				275.90	20051
20052	"Environmental Friendly" Carpet tiles, pile density (fibre/m ²) exceeding 75 million in any series, delivered to Site.....				341.60	20052
20053	100% pure wool, pile weight n.e. 2.05 kg/m ² "machine tufted" carpet delivered to Site.....				408.20	20053
20054	100% pure wool, pile weight exceeding 2.05 kg/m ² "machine tufted" carpet delivered to Site.....				438.10	20054
20055	100% pure wool, pile weight n.e. 2.05 kg/m ² "hand made" carpet delivered to Site.....				934.90	20055
20056	100% pure wool, pile weight exceeding 2.05 kg/m ² "hand made" carpet delivered to Site.....				1,082.70	20056
20057	Carpet underlay delivered to Site.....				20.40	20057

Section 21

SUNBLINDS, CURTAINS AND AWNINGS

SUNBLINDS, CURTAINS AND AWNINGS

SPECIAL CONDITIONS

Measurement generally

- I. Sunblinds shall generally be measured to the exact dimensions of the windows to be blinded.
- Curtains shall generally be measured the area to be curtained.
- Awnings shall be measured to the net plan areas as fixed. Portion operating individually is considered as one individual size.
- Canvas shall be measured to the net area as finished with no allowance made for seams and pleats.
- Take down existing fixtures and power supply installation will be measured separately.

Rates for venetian blinds

- II. The rates for venetian blinds shall include for : -
- (a) Supplying and fixing of single or multi-coloured slats, rise and fall control mechanism, locking cord control mechanism, tilt control mechanism, ladder tape and all necessary accessories all in accordance with the manufacturer's instructions.
 - (b) Supplying and fixing of enamel coated galvanised steel or enamel coated, powder coated or anodised aluminium head and bottom rails.
 - (c) Plugging and fixing to plastered surfaces or screwing to wooden pelmet.
 - (d) Making good area disturbed, touching up plasterwork and paintwork where required.
 - (e) Submission of technical pamphlets and samples of venetian blinds.
 - (f) Moving and replacing in position all movable furniture as necessary at the time of execution of works.

Rates for vertical blinds

- III. The rates for vertical blinds shall include for : -
- (a) Supplying and fixing of single or multi-coloured blades, base weights, drag and base connector cords, glider rail, open and close control, and stop control at any position and all necessary accessories all in accordance with the manufacturer's instructions.
 - (b) Supplying and fixing of enamel coated galvanised steel or anodised aluminium head rail.
 - (c) Plugging and fixing to plastered surfaces or screwing to wooden pelmet.
 - (d) Preparing and applying flame-proof finish to all surfaces of the fabric covering.
 - (e) Making good area disturbed, touching up plasterwork and paintwork where required.
 - (f) Submission of technical pamphlets and samples of vertical blinds.
 - (g) Moving and replacing in position all movable furniture as necessary at the time of execution of works.

SPECIAL CONDITIONS (CONT'D)

- | | | |
|-----|--|---|
| IV. | The rates for chic sunblinds shall include for : - | Rates for
chic sunblinds |
| | (a) Supplying and fixing of single or multi-coloured split bamboo laths, well laced with best quality waterproof line at 125 mm centres, fixing cord, pulley cleats, screw hanging eyes and all necessary accessories. | |
| | (b) Supplying and fixing 65 mm wide stout fabric bands at both edges. | |
| | (c) Supplying and fixing of stout whole bamboo top and bottom. | |
| | (d) Plugging and fixing to plastered surfaces or screwing to wooden pelmet. | |
| | (e) Spraying fire retardant paint on blinds. | |
| | (f) Making good area disturbed, touching up plasterwork and paintwork where required. | |
| | (g) Submission of a sample of chic sunblinds. | |
| | (h) Moving and replacing in position all movable furniture as necessary at the time of execution of works. | |
| V. | The rates for roller blinds shall include for : - | Rates for
roller blinds |
| | (a) Supplying and fixing of single or multi-coloured curtains with or without linings. | |
| | (b) Supplying and installation of switch control, motor and all necessary accessories for electrically operated roller blinds. | |
| | (c) Supply and installation of rise, fall and stop control mechanism including all necessary accessories. | |
| | (d) Provision of all requisite ladders, scaffolding, cradles, staging and working platforms when required for working at any height and locations. | |
| | (e) Provision of fixing framings or brackets to existing building or structure. | |
| | (f) Preparing and applying flame-proof finish to all surfaces of the fabric covering. | |
| | (g) Making good areas disturbed, touching up plasterwork and paintwork where required. | |
| | (h) Moving and replacing in position all movable furniture as necessary at the time of execution of works. | |
| | (i) Submission of technical pamphlets and samples of roller blinds. | |
| VI. | The rates for alteration and repairs items shall generally include for : - | Rates for
alteration and
repairs generally |
| | (a) Taking down and clearing away of old/defective articles or fittings. | |
| | (b) Preparing to receive replacement articles or fittings. | |
| | (c) Supplying and fixing new articles or fittings. | |
| | (d) All matching screws, spacers, tape, rails and the like. | |
| | (e) All labour and material in mortising, fitting, plugging, cutting and pinning. | |
| | (f) Making good areas disturbed, touching up plasterwork and paintwork where required. | |

SPECIAL CONDITIONS (CONT'D)

- | | |
|---|---|
| Rates for awnings | VII. The rates for awnings shall include for : - <ul style="list-style-type: none">(a) Supplying and fixing of single or multi-coloured awnings manually or electrically operated.(b) Supplying and installation of switch control, motor and all necessary accessories as required.(c) Provision of all requisite ladders, scaffolding, cradles, staging and working platforms when required for working at any height and locations.(d) Provision of fixing framings or brackets to existing building or structure.(e) Preparing and applying flame-proof finish to all surfaces of the fabric covering.(f) Making good areas disturbed, touching up plasterwork and paintwork where required.(g) Submission of technical pamphlets and samples of awnings. |
| Rates for blackout curtains and stage curtains | VIII. The rates for blackout curtains and stage curtains shall include for : - <ul style="list-style-type: none">(a) Supplying and fixing of single or multi-coloured curtains with or without linings.(b) Provision of all requisite ladders, scaffolding, cradles, staging and working platforms when required for working at any height and locations.(c) All pleats and foldings.(d) Hooks and hangers.(e) Moving and replacing in position all movable furniture as necessary at the time of execution of works.(f) Preparing and applying flame-proof finish to all surfaces of the fabric covering.(g) Making good areas disturbed, touching up plasterwork and paintwork where required.(h) Submission of samples of curtains and linings. |
| Ironmongery for curtains | IX. Ironmongery for curtains can be found in Section 09 - Ironmongery of this Schedule. |
| G.S. clauses | X. G.S. clauses for venetian blinds can be found in the Internal Fittings and Fixtures Section of the General Specification for Building. |

Item	VENETIAN BLINDS	Item																		
	Area of blinds (m ²)																			
	<table border="1"> <thead> <tr> <th>n.e. 1.0</th> <th>1.0 - 1.5</th> <th>1.5 - 2.0</th> <th>2.0 - 2.5</th> <th>2.5 - 3.0</th> <th>Exc. 3.0</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> <td>\$</td> </tr> </tbody> </table>	n.e. 1.0	1.0 - 1.5	1.5 - 2.0	2.0 - 2.5	2.5 - 3.0	Exc. 3.0	A	B	C	D	E	F	\$	\$	\$	\$	\$	\$	
n.e. 1.0	1.0 - 1.5	1.5 - 2.0	2.0 - 2.5	2.5 - 3.0	Exc. 3.0															
A	B	C	D	E	F															
\$	\$	\$	\$	\$	\$															
	<i>Per square metre</i>																			
21001	Blinds in individual size.....	21001																		
	<i>Per square metre</i>	A																		
		\$																		
21002	Extra over for forming graphics and the like on one side.....	61.50 21002																		
21003	Ditto but on both sides.....	107.70 21003																		
	<i>Each</i>																			
21004	Extra over for forming opening n.e. 0.50 m ²	61.50 21004																		
21005	Ditto exceeding 0.50 m ²	61.50 21005																		
	Alteration and repairs : -																			
	Take down and clear away the following old or defective articles or fittings, and supply and fix new articles or fittings : -																			
	<i>Per linear metre</i>																			
21006	Slat.....	15.80 21006																		
21007	Head rail.....	69.10 21007																		
21008	Bottom rail.....	44.10 21008																		
21009	Lift cord.....	8.40 21009																		
21010	Ladder cord.....	13.90 21010																		
21011	U rod.....	16.00 21011																		
	<i>Each</i>																			
21012	Tassel.....	7.20 21012																		
21013	Tilter.....	26.70 21013																		
21014	Cord lock.....	30.80 21014																		
21015	Fixing bracket.....	22.80 21015																		
21016	Tape roll and tape holder.....	20.60 21016																		

Item	VENETIAN BLINDS (CONT'D)		Item					
	Alteration and repairs : - (cont'd)	A						
	Take down and clear away the following old or defective articles or fittings, and supply and fix new articles or fittings : - (cont'd)	\$						
	Each							
21017	750 mm Long solid core wand with hook.....	36.30	21017					
21018	1,000 mm Long ditto.....	48.40	21018					
21019	1,300 mm Long ditto.....	62.70	21019					
21020	1,500 mm Long ditto.....	75.10	21020					
21021	2,300 mm Long ditto.....	111.20	21021					
21022	End cap to head or bottom rails.....	6.20	21022					
21023	Slat clip.....	6.00	21023					
		Area of blinds (m ²)						
		N.e. 3.0	Exc. 3.0					
	Each	A	B					
		\$	\$					
21024	Take down venetian blinds and fittings, reduce to smaller size (any area), ease, adjust and re-fix in original or other position, including replacement of parts (take down area measured).....	123.10	147.70	21024				
	Each							
21025	Take down existing venetian blinds and set aside for re-fix.....	22.50	25.80	21025				
21026	Ditto but clear away from Site.....	26.80	36.40	21026				
21027	Fix only venetian blinds.....	66.40	72.50	21027				
	VERTICAL BLINDS							
		Area of blinds (m ²)						
		N.e. 1.0	1.0 - 1.5	1.5 - 2.0	2.0 - 2.5	2.5 - 3.0	Exc. 3.0	
	Per square metre	A	B	C	D	E	F	
		\$	\$	\$	\$	\$	\$	
21028	Blinds in individual size.....	221.50	193.80	187.70	169.20	169.20	169.20	21028
	Each						A	
							\$	
21029	Extra over for forming opening n.e. 0.50 m ²						61.50	21029
21030	Ditto exceeding 0.50 m ²						61.50	21030

Item	VERTICAL BLINDS (CONT'D)		Item																								
	Alteration and repairs : -	A																									
	Take down and clear away the following old or defective articles or fittings, and supply and fix new articles or fittings : -	\$																									
	<i>Per linear metre</i>																										
21031	Fabric louvre.....	13.10	21031																								
21032	Drawing cord.....	38.40	21032																								
21033	Bead chain.....	23.20	21033																								
	<i>Each</i>																										
21034	Base weight.....	18.20	21034																								
21035	End cap.....	9.60	21035																								
21036	Hanger.....	14.20	21036																								
21037	Set of Runner.....	94.40	21037																								
21038	Spacer.....	11.90	21038																								
		<table border="1"> <thead> <tr> <th colspan="2">Area of blinds (m²)</th> </tr> <tr> <th>N.e. 3.0</th> <th>Exc. 3.0</th> </tr> <tr> <th>A \$</th> <th>B \$</th> </tr> </thead> <tbody> <tr> <td>147.70</td> <td>184.60</td> </tr> <tr> <td>13.40</td> <td>15.50</td> </tr> <tr> <td>20.40</td> <td>30.50</td> </tr> <tr> <td>73.80</td> <td>83.10</td> </tr> </tbody> </table>		Area of blinds (m ²)		N.e. 3.0	Exc. 3.0	A \$	B \$	147.70	184.60	13.40	15.50	20.40	30.50	73.80	83.10										
Area of blinds (m ²)																											
N.e. 3.0	Exc. 3.0																										
A \$	B \$																										
147.70	184.60																										
13.40	15.50																										
20.40	30.50																										
73.80	83.10																										
21039	Take down vertical blinds and fittings, reduce to smaller size (Any size), ease, adjust and re-fix in original or other position, including replacement of parts (take down area measured).....		21039																								
	<i>Each</i>																										
21040	Take down existing vertical blinds and set aside for re-fix.....		21040																								
21041	Ditto but clear away from Site.....		21041																								
21042	Fix only vertical blinds.....		21042																								
	CHIC SUNBLINDS	<table border="1"> <thead> <tr> <th colspan="6">Area of blinds (m²)</th> </tr> <tr> <th>N.e. 1.0</th> <th>1.0 - 1.5</th> <th>1.5 - 2.0</th> <th>2.0 - 2.5</th> <th>2.5 - 3.0</th> <th>Exc. 3.0</th> </tr> <tr> <th>A \$</th> <th>B \$</th> <th>C \$</th> <th>D \$</th> <th>E \$</th> <th>F \$</th> </tr> </thead> <tbody> <tr> <td>279.20</td> <td>273.90</td> <td>268.70</td> <td>170.80</td> <td>170.80</td> <td>170.80</td> </tr> </tbody> </table>		Area of blinds (m ²)						N.e. 1.0	1.0 - 1.5	1.5 - 2.0	2.0 - 2.5	2.5 - 3.0	Exc. 3.0	A \$	B \$	C \$	D \$	E \$	F \$	279.20	273.90	268.70	170.80	170.80	170.80
Area of blinds (m ²)																											
N.e. 1.0	1.0 - 1.5	1.5 - 2.0	2.0 - 2.5	2.5 - 3.0	Exc. 3.0																						
A \$	B \$	C \$	D \$	E \$	F \$																						
279.20	273.90	268.70	170.80	170.80	170.80																						
	<i>Per square metre</i>																										
21043	Chic sunblinds in individual size.....		21043																								

Item	CHIC SUNBLINDS (CONT'D)						Item							
	Each						A							
	\$													
21044	Extra over for forming opening n.e. 0.50 m².....						61.50	21044						
21045	Ditto exceeding 0.50 m².....						61.50	21045						
Alteration and repairs : -														
	Each						Area of blinds (m²)							
							N.e. 3.0	Exc. 3.0						
	\$						A	B						
	\$						\$	\$						
21046	Take down, set aside for re-use chic sunblinds and associated cord and fittings.....						27.80	32.10	21046					
21047	Ditto but clear away from Site.....						30.70	42.30	21047					
21048	Fix only chic sunblinds completed with cord and fittings.....						73.80	83.10	21048					
ROLLER BLINDS														
	Per square metre						Height (m)							
							N.e 1.0	1.0-2.0	2.0-3.0	3.0-4.0	4.0-5.0	Exc.5.0		
	\$						A	B	C	D	E	F		
	\$						\$	\$	\$	\$	\$	\$		
21049	Blinds in individual size, manually operated.....						523.00	492.20	295.30	295.30	295.30	295.30	21049	
21050	Blinds in individual size, electrically operated.....						830.60	799.80	603.00	603.00	603.00	603.00	21050	
21051	Extra over Items 21049 to 21050 inclusive for additional blackout blinds.....						123.10	123.10	123.10	123.10	123.10	123.10	21051	
	Each						\$							
21052	Extra over for forming opening n.e. 0.50 m².....												61.50	21052
21053	Ditto exceeding 0.50 m².....												61.50	21053
Alteration and repairs : -														
	Each													
21054	Take down roller blinds and fitting, reduce to smaller size (any area), ease, adjust and re-fix in original or other position, including replacement of parts (take down area measured).....												184.60	21054
21055	Take down existing roller blinds and set aside for re-fix.....												10.40	21055
21056	Ditto but clear away from Site.....												16.00	21056
21057	Fix only roller blinds.....												83.10	21057

Item	AWNINGS	Projection of awning on plan (m ²)		Item		
		N.e. 14.50	14.50 - 29.00			
		A \$	B \$			
	Supply and fix European origin awnings, complete with all necessary accessories, etc : -					
	<i>Per square metre</i>					
21058	Awnings in individual size, manually operated.....	611.00	549.90	21058		
21059	Ditto, electrically operated.....	755.30	640.60	21059		
21060	Awning fabric to existing awning frame.....	330.40	297.10	21060		
	Alteration and repairs : -					
	<i>Per square metre</i>		A \$			
21061	Take down existing manually operated awnings and set aside for re-fix.....		20.60	21061		
21062	Ditto but clear away from Site.....		25.20	21062		
21063	Take down existing electrically operated awnings and set aside for re-fix.....		30.00	21063		
21064	Ditto but clear away from Site.....		33.60	21064		
21065	Fix only manually operated awnings, including plugging, cutting and pinning etc., and making good and leaving in good order.....		196.90	21065		
21066	Ditto, but electrically operated.....		209.20	21066		
	CANVAS					
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
21067	Best stripped drill canvas made up, including all seaming, scalloped edges and similar labours, providing and fixing any tying tape or cord, and fixing complete in sunshades and similar positions (rollers and framework measured separately).....	61.30	8.40	9.30	13.70	21067
	BLACKOUT CURTAINS					
			Blackout curtains			
			with linings	without linings		
			A \$	B \$		
21068	Blackout curtains fixed to curtain rails and tracks (measured separately).....		172.50	122.10	21068	

Item	BLACKOUT CURTAINS (CONT'D)			Item
	<i>Each</i>	A \$		
21069	Extra over for forming opening n.e. 0.50 m ²	60.40		21069
21070	Ditto 0.50 - 1.0 m ²	60.40		21070
	Alteration and repairs : -			
	<i>Per square metre</i>			
21071	Take down and clear away blackout curtains and associated cord and fittings.....	9.50		21071
21072	Take down, set aside for re-use blackout curtains and associated cord and fittings.....	10.30		21072
21073	Fix only blackout curtains completed with cord and fittings.....	21.70		21073
	STAGE CURTAINS	Stage curtains		
		with linings	without linings	
	<i>Per square metre</i>	A \$	B \$	
21074	Cotton velveteen stage curtain with valance of British origin fixed on curtain rails and tracks (measured separately).....	397.50	344.50	21074
21075	Ditto of Korean origin (ditto).....	214.60	181.70	21075
	Alteration and repairs : -			
	<i>Per square metre</i>			
21076	Take down and clear away stage curtains and associated cord and fittings.....	10.60	10.60	21076
21077	Take down, set aside for re-use stage curtains and associated cord and fittings.....	10.30	10.30	21077
21078	Fix only stage curtains completed with cord and fittings.....	24.40	24.40	21078

Section 22

**DEMOUNTABLE PARTITIONS,
DRY WALL AND CUBICLE SYSTEM**

DEMOUNTABLE PARTITION, DRY WALL AND CUBICLE SYSTEM

SPECIAL CONDITIONS

Measurement of demountable partitions and dry walls

- I. Measurement of security type and fire resisting type partitions or dry walls : -
- (a) The measurement of security type and fire resisting type partitions or dry walls shall be the plane of panels measured to the overall height.
 - (b) The measurement of demountable partitions shall be the plane of panels measured to the exposed height.
 - (c) The measurement of dry walls shall be the plane of panels measured to the exposed height.

All works shall be measured the net area as specified. No deduction shall be made for voids or openings not exceeding 0.50 m². Doors shall be measured separately.

Rates for demountable partitions and dry walls generally

- II. The rates for demountable partitions and dry walls shall generally include for : -
- (a) All framing units and components, full or part length panels to complete length ordered and standard covering materials.
 - (b) Treating all exposed wood or veneer surfaces with fire retardant paint.
 - (c) Treating all fabric surfaces with flame proof treatment.
 - (d) Anodised aluminium skirting or black mild steel skirting.
 - (e) Factory finished painting, laminated plastic or vinyl cloth finish.
 - (f) Providing manufacturer's guarantee.
 - (g) All base, ceiling and abutment fixing.
 - (h) Forming wants including trimming edges.

Rates for full height partitions

- III. The rates for full height partitions shall further include for : -
- (a) All framings and edging trims to intermediate, end or adjoining partitions and around door frames, openings and the like.
 - (b) In the case of panel stopped at door height include additional capping to exposed upper edge of partition.

Rates for lower level partitions

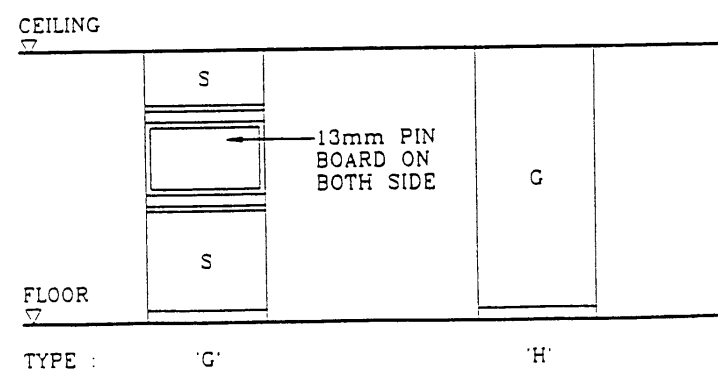
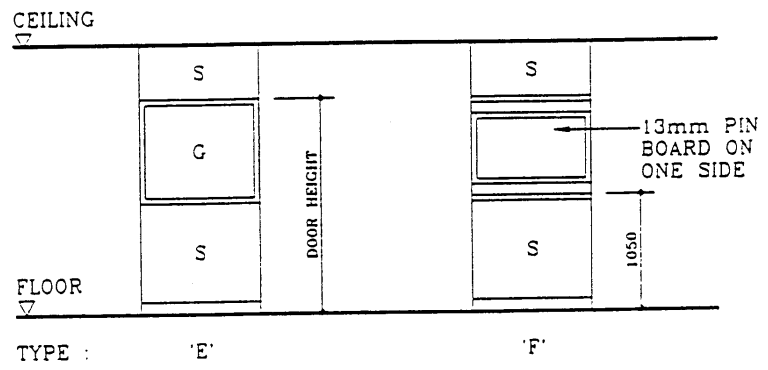
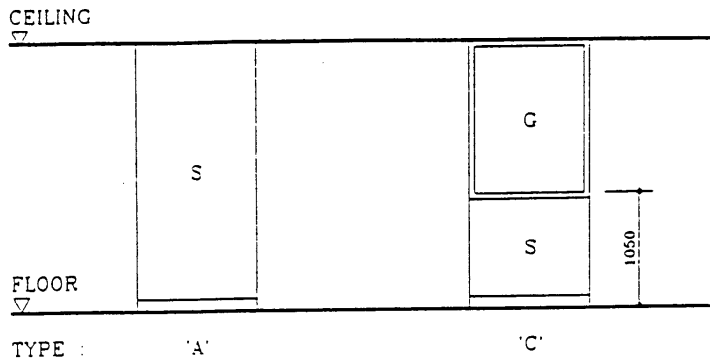
- IV. The rates for lower level partitions shall further include for : -
- (a) All upper cappings and intermediate stabilizers as required.
 - (b) Fixing to existing fixture with brackets.

SPECIAL CONDITIONS (CONT'D)

- V. The rates for dry walls shall further include for : - **Rates for dry walls**
- (a) All mouldings at edges, skirtings and fixings complete.
 - (b) Providing and fixing to concrete structures or fixtures with anchor bolts, brackets and the like.
- VI. The rates for alterations shall further include for : - **Rates for alterations**
- (a) Taking down and re-fix existing covering materials, if required.
 - (b) Replacement and additional accessories as necessary.
 - (c) Modifying existing materials or covering to suit actual site conditions.
 - (d) Making good surfaces disturbed.
 - (e) Delivery to the designated locations as directed.
 - (f) Protecting all materials required for re-use.
 - (g) Additional framing, if required.
- VII. The rates for reception counter and drawer units shall include for : - **Rates for reception counter and drawer units**
- (a) All additional bracings and components to ensure the rigidity and stability of the finished work.
 - (b) All surface finishes are factory applied before delivery to Site.
 - (c) Treating all fabric surfaces with flame proof treatment.
- VIII. The rates for security partitions shall further include for : - **Rates for security partitions**
- (a) All galvanised mild steel framings, bracings, supports and the like rigidly and stably constructed for security purposes.
 - (b) Sandwiched mild steel plate security panel.
 - (c) Providing and fixing all steel or stainless steel anchors or bolts.
 - (d) Guard bar panel at top, if required.
 - (e) Providing and fixing wood battens or steel brackets for the face coverings.

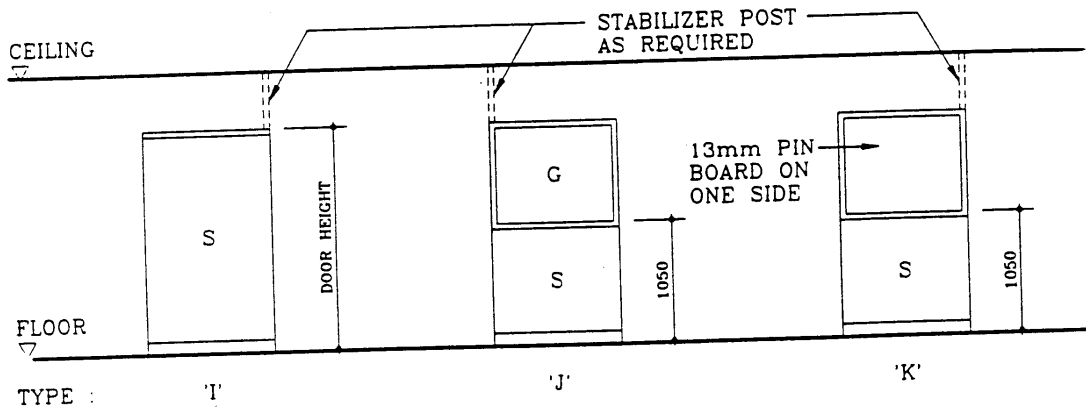
SPECIAL CONDITIONS (CONT'D)

- | | |
|---|--|
| Rates for fire resisting partitions | IX. The rates for fire resisting partitions shall further include for : - <ul style="list-style-type: none">(a) Supply and installation in accordance with the manufacturer's instructions.(b) All galvanised mild steel or stainless steel framings, bracings, supports and the like rigidly and stably constructed for fire resisting purposes.(c) Providing and fixing all steel or stainless steel anchors or bolts.(d) All additional fire resisting panel, components and materials.(e) Providing and fixing wood battens or steel brackets for the face coverings.(f) Submission of technical literature, shop drawings, test certificate and guarantees as required. |
| Rates for proprietary cubicle system | X. The rates for proprietary cubicle system, unless otherwise stated, shall include for : - <ul style="list-style-type: none">(a) Supply and installation in accordance with the manufacturer's instructions.(b) Complete systems with 13 mm thick \pm 1 mm solid phenolic panel (in conformity to EN 438 standard), doors, partition, pilaster, divisions, etc. and the like.(c) All frames in aluminium (in conformity to EN 6060 standard) coated with corrosion resistant nylon.(d) All necessary corrosion resistant nylon-aluminium accessories like hook, toilet roll holder, and the like, and ironmongeries including adjustable feet, automatic hinges, snib indicators; coat hooks with door stops and angle brackets.(e) All types of surface finishes and colours.(f) All computerized fabrication to ensure excellent edge finish, with no sharp and corners for safety.(g) Submission of catalogues, technical literature, shop drawings and manufacturer's guarantee. |
| G.S. clauses | XI. G.S. clauses for demountable partitions can be found in the Internal Fittings and Fixtures Section of the General Specification for Building. |



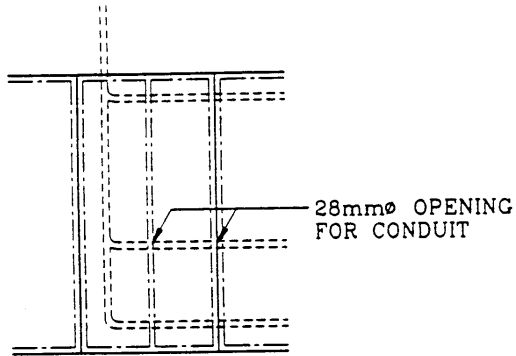
LEGEND. S = SOLID PANEL
 G = GLASS PANEL

PARTITION CODE SHEET 1 - FULL HEIGHT PARTITION TYPES A - H

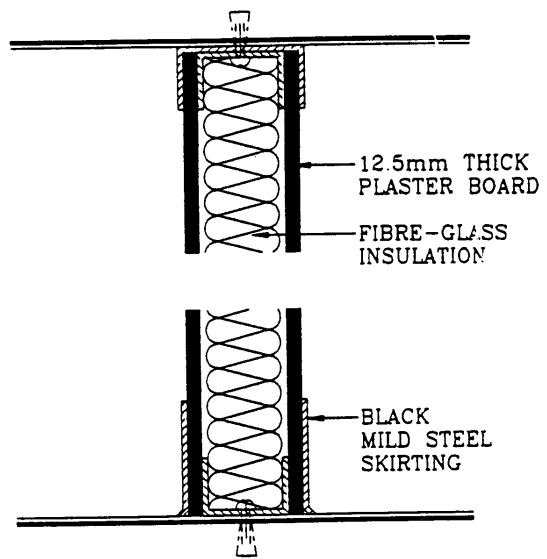


LEGEND: S = SOLID PANEL
G = GLASS PANEL

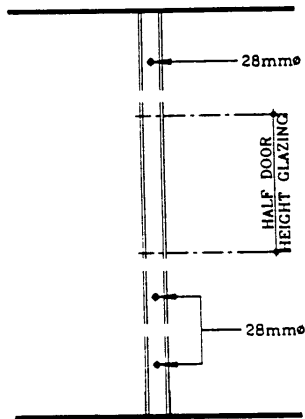
PARTITION CODE SHEET 2 - FULL HEIGHT PARTITION TYPES I - K



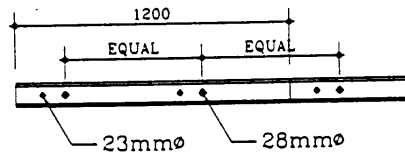
ELEVATION



DETAIL



VERTICAL

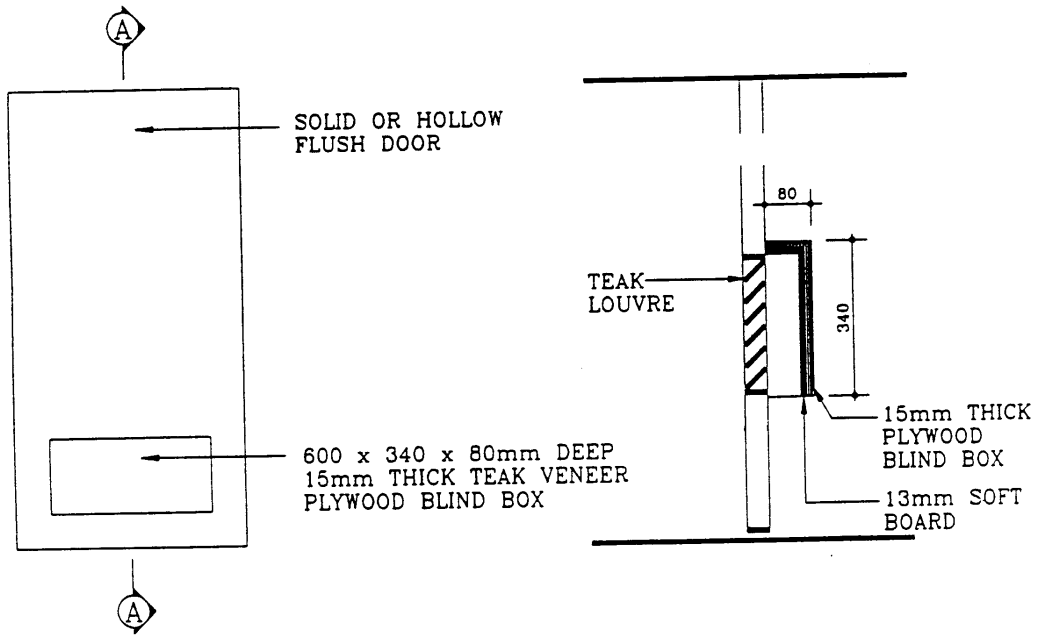


HORIZONTAL

NOTE: ALL ALUMINIUM FURRING CHANNELS AND STUBS, VERTICAL AND HORIZONTAL TO HAVE PERFERATED HOLES

DRY WALL CONSTRUCTION

PARTITION CODE SHEET 3 - DRY WALL CONSTRUCTION

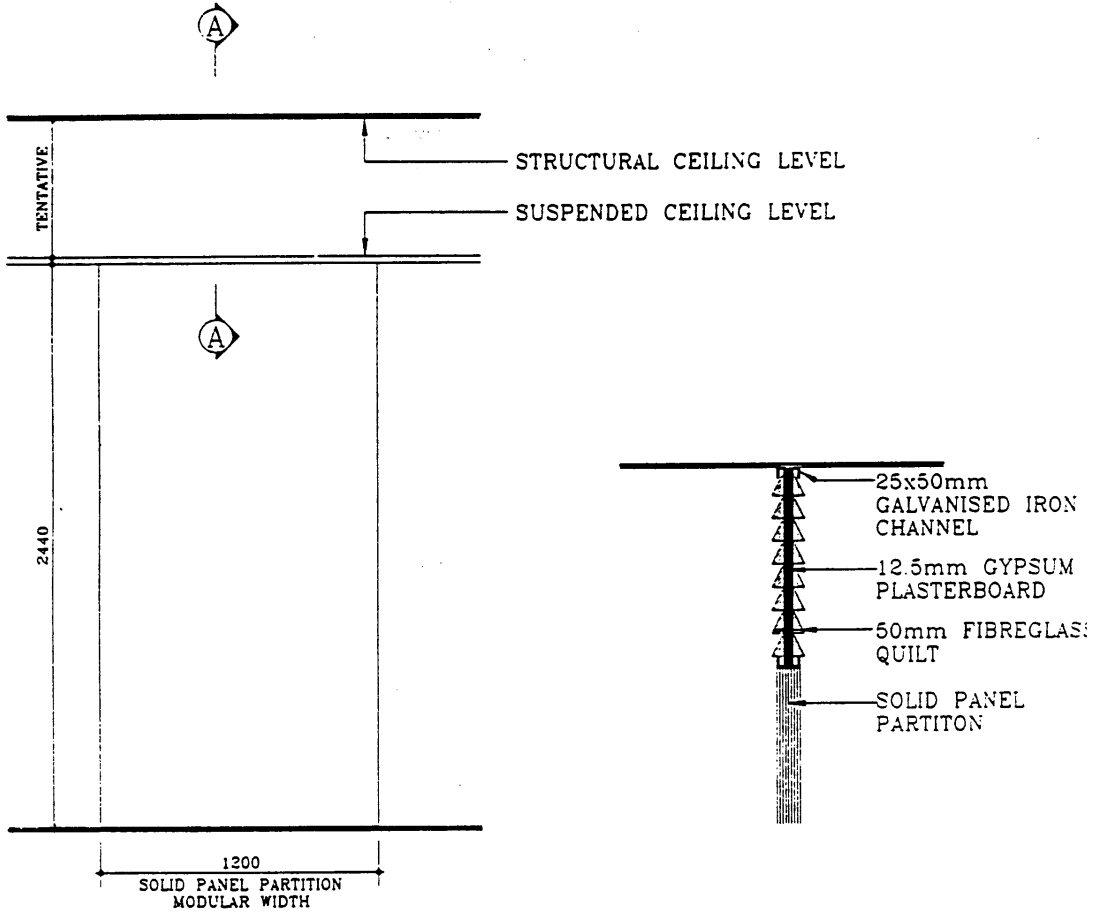


ELEVATION

SECTION A-A

DETAIL OF BLIND BOX

PARTITION CODE SHEET 4 - BLIND BOX

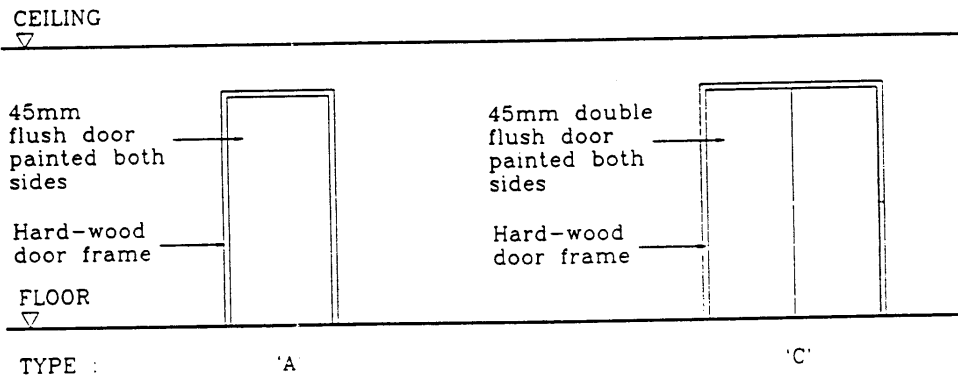


ELEVATION

SECTION A-A

DETAIL OF CEILING BAFFLE

PARTITION CODE SHEET 5 - CEILING BAFFLE



PARTITION CODE SHEET 6 - FLUSH DOOR TYPE 'A' & 'C'

Item	DEMOUNTABLE PARTITIONS						Item	
		Plaster boards panel with covering on both sides		Plywood or chipboard panel with covering on both sides				
		fabric vinyl cloth	Hessian fabric	fabric vinyl cloth	laminated plastic sheet	3.2 mm veneer of any type	Hessian fabric	
		A \$	B \$	C \$	D \$	E \$	F \$	
	Proprietary partition system, full height partition type : -							
	<i>Per square metre</i>							
22001	Type A, full solid panel.....	266.20	361.50	326.70	363.20	383.70	422.30	22001
22002	Type C, solid panel up to 1.05 m high, top panel glazed in clear glass.....	406.80	451.80	468.30	503.00	462.30	480.90	22002
22003	Ditto but glazed in obscure glass.....	394.10	437.20	455.60	491.10	447.20	465.20	22003
22004	Ditto but glazed in wired glass.....	454.70	495.60	480.90	496.50	505.20	522.30	22004
22005	Type E, solid panel up to 1.05 m high and portion above door height, mid panel glazed in clear glass.....	359.50	421.40	399.20	422.40	435.90	461.60	22005
22006	Ditto but glazed in obscure glass.....	357.50	418.50	396.60	419.50	432.60	457.80	22006
22007	Ditto but glazed in wired glass.....	400.80	459.80	438.80	460.90	473.60	498.20	22007
22008	Type F, solid panel up to 1.05 m high and portion above door height, mid panel complete with pin board facing one side.....	312.40	412.10	376.00	412.80	434.00	474.90	22008
22009	Type G, solid panel up to 1.05 m high and portion above door height, mid panel complete with pin board facing both sides.....	334.60	429.40	395.60	431.00	451.50	490.80	22009
22010	Type H, fully glazed panel in clear glass.....	494.60	494.60	494.60	494.60	494.60	494.60	22010
22011	Ditto but glazed in obscure glass.....	490.00	490.00	490.00	490.00	490.00	490.00	22011
22012	Ditto but glazed in wired glass.....	596.10	596.10	596.10	596.10	596.10	596.10	22012
22013	Type I, fully solid panel, stopped at door height.....	324.90	436.00	396.50	437.80	461.70	507.50	22013
22014	Type J, solid panel up to 1.05 m high, top panel glazed in clear glass, stopped at door height.....	412.70	461.40	444.10	462.40	472.80	492.80	22014
22015	Ditto but glazed in obscure glass.....	410.80	459.50	442.20	460.50	470.90	491.00	22015
22016	Ditto but glazed in wired glass.....	454.20	502.90	485.60	503.80	514.30	534.30	22016
22017	Type K, solid panel up to 1.05 m high, mid panel complete with pin board facing one side, stopped at door height.....	399.80	510.90	471.40	512.70	536.60	582.40	22017
22018	Type K, solid panel up to 1.05 m high mid panel complete with pin board facing both sides, stopped at door height.....	474.60	585.70	546.20	587.60	611.40	657.20	22018

Item	DEMOUNTABLE PARTITIONS (CONT'D)		Item
	Proprietary partition system, full height partition type : - (cont'd)	A	
		\$	
	<i>Per square metre</i>		
22019	Add to either of Items 22001 to 22009 and 22013 to 22018 inclusive for additional sound insulation, 50 mm thick fibreglass insulation (density 16kg/m ³) as G.S. Item 22.20.....	11.90	22019
22020	Add to either of Items 22001 to 22009 and 22013 to 22018 inclusive for additional sound insulation, 50 mm thick fibreglass insulation (density 48 kg/m ³) as G.S. Item 22.20	35.80	22020
22021	Add to either of Items 22001, 22008 and 22009 for security partitions including all additional and enhanced framing, fixing, panelling and accessories, in compliance with sound seal requirement.....	319.40	22021
22022	Add to either of Items 22001, 22008 and 22009 for fire resisting partitions including all additional and enhanced framing, fixing, panelling and accessories, in compliance with 1 hour fire resisting requirements.....	166.90	22022
22023	Add to either of Items 22001, 22008 and 22009 for fire resisting security partitions including all additional framing, fixing, panelling and accessories, in compliance with 1 hour fire resisting requirements, sound seal requirements.....	453.60	22023
22024	Add to either of Items 22001 to 22009 and 22013 to 22018 inclusive for teak louvre consisting of 45 x 20 mm thick teak framing all round, 10 mm thick teak blades and 25 x 5 mm thick teak architrave (louvre area measured).....	1,565.10	22024
22025	Construct ceiling baffle from suspended ceiling level to structural soffit, consisting of 50 mm thick fibreglass quilt on both sides of 12.50 mm thick gypsum plaster board framed with metal channel including forming opening of any size for pipes or ducts and providing all necessary bolts, screws and the like as detailed.....	305.00	22025
	<i>Each</i>		
22026	Add to either of Items 22001 to 22009 and 22013 to 22018 inclusive for glazed sliding hatch, size 1200 x 450 mm high, consisting of 125 x 25 mm thick teak framing all round, 6 mm thick clear sheet glass with polished edges and finger holes, P.V.C. tracks housed into framing at head and cill including forming opening in new partition, providing and fixing of all necessary additional framing components.....	795.90	22026
22027	L-shaped reception counter unit, girth (3000 mm + 1800 mm) x 700 mm wide overall, comprising of screen partition 1070 mm high with quadrant panel at corner and return panel at bottom ends, all covered with fabric on both sides, together with cantilevered work top and counter top along the girth, both tops having pressure laminated surfaces trimmed with T moulding and complete with support brackets.....	6,352.60	22027
22028	Drawer unit attached underneath cantilevered work top, approximate size 450 mm wide x 150 mm high x 500 mm deep, complete with drawer lock and stainless steel pull handle.....	234.80	22028
	Proprietary partition system, lower level (open plan) type, screen panel covered with Hessian fabric on both sides : -		
	<i>Per linear metre</i>		
22029	0.9 - 1.2 m screen panel height.....	480.00	22029
22030	1.2 - 1.5 m ditto.....	506.60	22030
22031	1.5 - 1.8 m ditto.....	533.30	22031

Item	DRY WALL						Item
	Plaster boards lining panel covering with		Plywood or chipboard lining panel covering with				
	fabric vinyl cloth	Hessian fabric	fabric vinyl cloth	laminated plastic sheet	3.2 mm veneer of any type	Hessian fabric	
	A	B	C	D	E	F	
	\$	\$	\$	\$	\$	\$	
	Dry wall system : -						
	<i>Per square metre</i>						
22032	Full solid panel.....						22032
22033	Extra over Item 22032 for glazing in clear glass.....						22033
22034	Extra over Item 22032 for glazing in obscure glass.....						22034
22035	Extra over Item 22032 for glazing in wired glass.....						22035
22036	Extra over Item 22032 for pin board facing one side.....						22036
22037	Extra over Item 22032 for pin board facing both sides.....						22037
	<i>Per square metre</i>						
22038	Add to Item 22032 for security partitions including all additional and enhanced framing, fixing panelling and accessories, in compliance with sound seal requirement					A \$	22038
22039	Add to Item 22032 for fire resisting partitions including all additional and enhanced framing, fixing, panelling and accessories, in compliance with 1 hour fire resisting requirements						22039
22040	Add to Item 22032 for fire resisting security partitions including all additional and enhanced framing, fixing, panelling and accessories, in compliance with 1 hour fire resisting requirements						22040
22041	Add to Item 22032 for teak louvre consisting of 45 x 20 mm thick teak framing all round, 10 mm thick teak blades and 25 x 5 mm thick teak architrave (louvre area measured).....						22041
	<i>Each</i>						
22042	Add to Item 22032 for glazed sliding hatch, size 1200 x 450 mm high, consisting of 125 x 25 mm thick teak framing all round, 6 mm thick clear sheet glass with polished edges and finger holes, P.V.C. tracks housed into framing at head and cill including forming opening in new partition, providing and fixing of all necessary additional framing components.....						22042

Item	HOLLOW CORE FLUSH DOORS FOR DEMOUNTABLE PARTITION AND DRY WALL				Item	
	Door type with or without frame					
	Teak door and frame	Hardwood door and frame	Hardwood door and aluminium frame	Teak door and aluminium frame		
	A	B	C	D		
	\$	\$	\$	\$		
	Partition door, leaf size 750 - 900 x 2100 mm high : - (ironmongery measured separately)					
	<i>Each</i>					
22043	Type A partition door, single leaf, without door frames.....	1,143.50	988.60	988.60	1,143.50	22043
22044	Type A partition door, single leaf, with door frames.....	1,836.30	1,359.40	1,657.50	1,812.40	22044
22045	Type A partition sliding door, single leaf, without door frames.....	1,143.50	988.60	988.60	1,143.50	22045
22046	Type A partition sliding door, single leaf, with door frames.....	1,961.00	1,426.10	1,777.90	1,932.80	22046
22047	Type C partition door, double leaf, without door frames.....	2,046.30	1,686.40	1,686.40	2,046.30	22047
22048	Type C partition door, double leaf, with door frames.....	2,852.90	2,118.00	2,465.10	2,825.00	22048
22049	Type C partition sliding door, double leaf, without door frames.....	2,046.30	1,686.40	1,686.40	2,046.30	22049
22050	Type C partition sliding door, double leaf, with door frames.....	3,062.60	2,230.30	2,667.60	3,027.50	22050
	SOLID CORE FLUSH DOORS FOR DEMOUNTABLE PARTITION AND DRY WALL					
	Door type with or without frame					
	Teak door and frame	Hardwood door and frame	Hardwood door and aluminium frame	Teak door and aluminium frame		
	A	B	C	D		
	\$	\$	\$	\$		
	Partition door, leaf size 750 - 900 x 2100 mm high : - (ironmongery measured separately)					
	<i>Each</i>					
22051	Type A partition door, single leaf, without door frames.....	1,489.90	1,288.10	1,288.10	1,489.90	22051
22052	Type A partition door, single leaf, with door frames.....	2,182.80	1,658.90	1,957.00	2,158.80	22052
22053	Type A partition sliding door, single leaf, without door frames.....	1,489.90	1,288.10	1,288.10	1,489.90	22053
22054	Type A partition sliding door, single leaf, with door frames.....	2,307.50	1,725.70	2,077.40	2,279.10	22054
22055	Type C partition door, double leaf, without door frames.....	2,666.20	2,197.40	2,197.40	2,666.20	22055
22056	Type C partition door, double leaf, with door frames.....	3,472.80	2,629.00	2,976.10	3,444.90	22056
22057	Type C partition sliding door, double leaf, without door frames.....	2,666.20	2,197.40	2,197.40	2,666.20	22057
22058	Type C partition sliding door, double leaf, with door frames.....	3,682.50	2,741.20	3,178.50	3,647.40	22058
	<i>Each</i>					
22059	Add to either of Items 22043 to 22058 inclusive for upper portion of door fitted with 6 mm thick clear glass of any size including forming opening through door, providing all necessary teak framing, teak fillers, glazing compound and the like (single leaf measured).....				233.10	22059
22060	Ditto but fitted with 6 mm thick obscure glass panel (ditto).....				224.30	22060
22061	Ditto but fitted with 6 mm thick wired glass panel (ditto).....				336.00	22061
22062	Add to either of Items (B) to (C) of 22043 to 22058 inclusive for door faced both sides with laminated plastic sheeting in lieu of veneer (single leaf measured).....				77.00	22062
22063	Add to ditto for door with 15 mm thick teak veneer plywood blind box, overall size 600 x 340 x 80 mm deep, and lined with 13 mm thick soft board				408.40	22063
22064	Add to ditto for door with teak louvre size 600 x 340 x 80 mm consisting of 45 x 20 mm thick teak framing all round, 10 mm thick teak blades and 25 x 5 mm thick teak architrave				316.00	22064

Item	ALTERATION WORKS TO EXISTING PARTITIONS						Item	
	Plaster boards panel with covering on one side of existing partition		Plywood or chipboard panel with covering on one side of existing partition					
	fabric vinyl cloth	Hessian fabric	fabric vinyl cloth	laminated plastic sheet	3.2 mm veneer of any type	Hessian fabric		
	A	B	C	D	E	F		
	\$	\$	\$	\$	\$	\$		
22065	<i>Per square metre</i> Replace the surface covering on one side of existing proprietary demountable partitions and dry walls.....						22065	
	79.90	108.40	98.00	109.00	115.10	126.70		
22066	Alter existing glazed partitions to double glazed partition with 6 mm thick clear glass.....						22066	
							445.70	
22067	Ditto but with 6 mm thick obscure glass.....						22067	
							431.20	
22068	Ditto but with 6 mm thick wired glass.....						22068	
							591.60	
22069	Alter existing demountable partitions to sound insulation partition with 50 mm thick fibreglass insulation layer (density 16 kg/m ³)						22069	
							14.30	
22070	Ditto but with 50 mm thick fibreglass insulation (density 48 kg/m ³).....						22070	
							42.90	
22071	Construct teak louvre consisting of 45 x 20 mm thick teak framing all round, 10 mm thick teak blades and 25 x 5 mm thick teak architrave including forming opening through existing hollow or solid core flush door and providing all necessary framing						22071	
							1,722.50	
22072	Forming opening of any size through solid panel partition including all necessary partition components.....						22072	
							157.50	
	<i>Each</i>							
22073	Construct glazed sliding hatch, size 1200 x 450 mm high, consisting of 125 x 25 mm thick teak framing all round, 6 mm thick clear sheet glass with polished edges and finger hole, P.V.C. tracks housed into framing at head and cill including forming opening in existing partition, providing and fixing of all necessary framing components.....						22073	
							875.50	
22074	Construct 15 mm thick teak veneer plywood blind box overall size 600 x 340 x 80 mm deep and lined with 13 mm thick soft board.....						22074	
							523.80	
22075	Cutting and trimming partition around beams, air-conditioning ducts, etc., including all necessary framing components and fixings, girth of cut n.e. 1.20 m						22075	
							72.60	
22076	Scribe infill up to 300 mm wide in 12 mm thick luan plywood to existing window opening for abutting partition of any description and height, and finished to match abutting partition						22076	
							548.50	

Item	ALTERATION WORKS TO EXISTING PARTITIONS (CONT'D)	Take down and clear away	Take down and set aside for re-use	Fix only	Item	
	<i>Per square metre</i>	A \$	B \$	C \$		
22077	Proprietary solid, full height partition.....	21.80	47.70	108.40	22077	
22078	Proprietary full glazed or partly glazed, full height partition.....	24.70	57.40	151.50	22078	
22079	Proprietary security partition.....	25.40	59.60	135.50	22079	
22080	Proprietary fire resisting partition.....	27.60	66.90	151.80	22080	
22081	Proprietary lower level (open plan) partition.....	22.40	49.80	113.20	22081	
22082	Proprietary lower level (open plan), fully glazed or partly glazed partition.....	25.50	59.80	158.40	22082	
	<i>Each</i>					
22083	Hollow or solid core flush door (single leaf measured).....	18.30	22.30	26.30	22083	
	<i>Per linear metre</i>			A \$		
22084	Pack top of partition to ceiling to make up height to 75 mm with painted scantlings plugged and screwed to concrete soffit or tapped and screwed to grid of suspended ceiling			46.80	22084	
22085	Construct over partition 100 mm wide and up to 300 mm high painted false beam to make up height built up of 12 mm thick luan plywood and 50 x 50 mm hardwood framing plugged and screwed to concrete soffits or tapped and screwed to grid of suspended ceiling			200.60	22085	
22086	Ditto but 300 - 600 mm high.....			372.60	22086	
	IRONMONGERY					
	Supply and fix :-			Single leaf door	Double leaf door	
	<i>Per set</i>			A \$	B \$	
22087	Set of ironmongery comprising cylinder lock , 75 x 100 mm stainless steel hinges, bolts and rubber door stop			383.50	454.20	22087
22088	Set of ironmongery for sliding door comprising mortice locks, flush bolts, sliding door track, channel guide, hanger, handles, door stop, etc.....			1,394.40	2,033.90	22088

Item	BRONZE ANODISED ALUMINIUM EXTRUDED SECTIONS				Item	
	<i>Per linear metre</i>					
				A \$		
22089	Extra over demountable partition and dry wall for bronze anodised aluminium T section.....			3.10	22089	
22090	Ditto ceiling mould.....			5.90	22090	
22091	Ditto half angle.....			1.90	22091	
22092	Ditto glazing bead.....			4.20	22092	
22093	Ditto reveal batten.....			9.70	22093	
22094	Ditto glazing mould.....			7.60	22094	
22095	Ditto door frame.....			12.80	22095	
	CUBICLE SYSTEM					
	Proprietary cubicle system comprising :- Panel conforming to EN 438 : 13 mm thick ± 1 mm solid phenolic panel doors, pilaster and division. Solid colour on both sides of the panel and in any colour. Hardware : Aluminium EN 6060 components fully coated with corrosion resistant nylon. Aluminium adjustable legs and brackets fully coated with corrosion resistant nylon. Ironmongery and accessories : Aluminium fully coated with corrosion resistant nylon automatic hinges, snib indicator, coat hook with door stop, toilet roll holder and the like.	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A \$	B \$	C \$	D \$	
22096	Set of cubicle size 750 - 1000 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	2,402.90	74.50	148.60	345.40	22096
22097	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	3,884.10	99.60	211.80	432.30	22097
22098	Set of cubicle size 1000 - 1500 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	3,079.40	89.20	192.60	377.70	22098
22099	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	4,759.60	105.50	226.20	461.00	22099
	<i>Each</i>					
22100	Extra over Items 22096 to 22099 inclusive for division panel n.e. 1.80 m deep.....	1,653.90	56.40	122.00	125.50	22100

Item	CUBICLE SYSTEM (CONT'D)					Item
	Proprietary cubicle system comprising : -	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
	Spare parts for proprietary cubicle system : -					
	<i>Pair</i>	A	B	C	D	
		\$	\$	\$	\$	
22101	Hinge (L/H or R/H)	124.90	1.90	4.30	10.80	22101
	<i>Each</i>					
22102	Adjustable leg	167.70	1.90	4.30	10.80	22102
22103	Rail fixing rose.....	27.20	1.90	4.30	10.80	22103
22104	Angle bracket	46.50	1.90	4.30	10.80	22104
22105	Headrail 3000mm (L)	224.90	1.90	4.30	10.80	22105
22106	Rail bracket	64.30	1.90	4.30	10.80	22106
22107	Rail elbow	28.60	1.90	4.30	10.80	22107
22108	Coat hook	25.00	1.90	4.30	10.80	22108
22109	Indicator snib (L/H or RH)	146.30	1.90	4.30	10.80	22109
22110	Rail T connector	56.70	1.90	4.30	10.80	22110

Item	CUBICLE SYSTEM (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	"Cemac System-3" toilet cubicle system : -					
	<i>Per set</i>					
22111	Set of cubicle size 750 - 1000 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	3,472.10	72.40	144.30	335.50	22111
22112	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	5,665.60	96.80	205.70	419.90	22112
22113	Set of cubicle size 1000 - 1500 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	4,340.10	89.20	192.60	377.70	22113
22114	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	6,381.10	105.50	226.20	461.00	22114
	<i>Each</i>					
22115	Extra over Items 22111 to 22114 inclusive for division panel n.e. 1.80 m deep.....	2,263.90	56.40	122.00	125.50	22115
	Replacement parts : -					
	<i>Pair</i>					
22116	Hinge (L/H or R/H)	180.50	1.90	4.30	10.80	22116
	<i>Each</i>					
22117	Adjustable leg	244.10	1.90	4.30	10.80	22117
22118	Rail fixing rose.....	35.20	1.90	4.30	10.80	22118
22119	Angle bracket	47.90	1.90	4.30	10.80	22119
22120	Headrail 3000mm (L)	233.50	1.90	4.30	10.80	22120
22121	Rail bracket	90.30	1.90	4.30	10.80	22121
22122	Rail elbow	37.30	1.90	4.30	10.80	22122
22123	Coat hook	32.00	1.90	4.30	10.80	22123
22124	Indicator snib (L/H or RH)	212.30	1.90	4.30	10.80	22124
22125	Rail T connector	58.50	1.90	4.30	10.80	22125

Item	CUBICLE SYSTEM (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	"Mark V" toilet cubicle system : -					
	<i>Per set</i>					
22126	Set of cubicle size 750 - 1000 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	3,338.40	72.40	144.30	335.50	22126
22127	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	5,321.90	96.80	205.70	419.90	22127
22128	Set of cubicle size 1000 - 1500 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	3,840.40	89.20	192.60	377.70	22128
22129	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	6,125.40	105.50	226.20	461.00	22129
	<i>Each</i>					
22130	Extra over Items 22126 to 22129 inclusive for division panel n.e. 1.80 m deep.....	2,133.70	56.40	122.00	125.50	22130
	Replacement parts : -					
	<i>Pair</i>					
22131	Cam hinge (L/H or R/H) model no. TN0105.....	173.90	1.90	4.30	10.80	22131
	<i>Each</i>					
22132	Adjustable leg model no. TN1032.....	235.10	1.90	4.30	10.80	22132
22133	Rail fixing rose model no. TN0106.....	34.20	1.90	4.30	10.80	22133
22134	Angle bracket model no. TN151G.....	46.50	1.90	4.30	10.80	22134
22135	Headrail 3000mm (L) model no. 01073.....	224.90	1.90	4.30	10.80	22135
22136	Rail bracket model no. TN0109.....	87.30	1.90	4.30	10.80	22136
22137	Rail elbow model no. TN0110.....	36.30	1.90	4.30	10.80	22137
22138	Coat hook model no. TN152.....	31.20	1.90	4.30	10.80	22138
22139	Indicator snib (L/H or RH) model no. TN0104.....	204.50	1.90	4.30	10.80	22139
22140	Rail T connector model no. TN0108.....	56.70	1.90	4.30	10.80	22140

Item	CUBICLE SYSTEM (CONT'D)					Item
		Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
		A	B	C	D	
		\$	\$	\$	\$	
	"Formica Lifeseal" toilet cubicle system : -					
	Set					
22141	Set of cubicle size 750 - 1000 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	2,972.40	72.40	144.30	335.50	22141
22142	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	4,687.30	96.80	205.70	419.90	22142
22143	Set of cubicle size 1000 - 1500 mm wide x 2.00 m high (overall) with 150 mm floor clearance comprising one front panel with one door included	3,431.00	89.20	192.60	377.70	22143
22144	Ditto comprising one front panel with one door included and one open-end panel n.e. 1.80 m deep	5,461.50	105.50	226.20	461.00	22144
	Each					
22145	Extra over Items 22141 to 22144 inclusive for division panel n.e. 1.80 m deep.....	1,994.10	56.40	122.00	125.50	22145
	Replacement parts : -					
	Each					
22146	Saddle bracket.....	57.70	1.90	4.30	10.80	22146
22147	Angle bracket.....	34.20	1.90	4.30	10.80	22147
22148	Leg.....	268.80	1.90	4.30	10.80	22148
22149	Coat hook.....	34.20	1.90	4.30	10.80	22149
22150	Rail at 2m(L).....	151.50	1.90	4.30	10.80	22150
	Set					
22151	Indicator set (one pair) either L/H or R/H.....	233.60	1.90	4.30	10.80	22151
22152	Hinge set (one pair) either L/H or R/H.....	198.40	1.90	4.30	10.80	22152

Section 23

DEMOLITION

DEMOLITION

SPECIAL CONDITIONS

Measurement generally

- I. All demolition works in this Section shall mean the demolition of the whole building or part of concrete structures irrespective of storey height including all partitions, fittings, finishes, services, etc. within the building.

Alteration and repairs other than demolition in this Section shall be measured and paid for at the appropriate rates under applicable Work Sections of this Schedule, for example : -

- | | | |
|-----|---|--------------------------------------|
| (a) | Taking down concrete for alteration | Section 02 - Concrete Work |
| (b) | Taking down brickwork or blockwork walling for alteration | Section 03 - Brickwork and blockwork |
| (c) | Taking down rubble walling for alteration | Section 04 - Masonry |
| (d) | Taking down structural steel for alteration | Section 10 - Steel and Metal Work |

Measurement of demolition of whole building or part of structures

- II. Demolition of whole building shall be measured net on the covered floor area of the building to be demolished.

Covered floor area is measured from the outer face of the external walls of a fully covered structure and measured over all walls, partitions, columns, stair wells, lift wells, escalator openings bay windows, covered balconies, pipe/drain/cable ducts, and the like. It excludes all projections beyond the outer face of external wall and uncovered trafficable areas such as external playground, landscaped areas and the like.

Demolition of roof shall be measured the overall flat plan area of the roof to be demolished and will be measured as either one of the following categories : -

- (i) Roof in concrete construction (including all structure above roof slab) of building or structure;
- (ii) Roof other than concrete construction (including all structure above roof slab) of building or structure.

Roof other than concrete construction refers to structure of timber, steel or others construction. Measurement of such demolition work shall not apply to structure built on top of concrete roof structure of which shall hold to be included under demolition of roof in concrete construction.

When measuring "Demolish and clear away whole building at Ground Floor", cockloft and the like where access is within the floor shall be measured separately. Break up and clear away existing ground floor paving slabs, footings, foundations and the like and backfilling voids will be measured and paid for at the appropriate rates in Section 01 - Excavation of this Schedule.

When measuring "Demolish and clear away cockloft and the like", it shall include area of staircase or any part of the access.

Removal of asbestos containing materials shall be measured separately.

Measurement of single storey shed

- III. Demolition of single storey sheds other than concrete or structural steel encased with concrete structures shall be measured separately. The covered floor area of the single storey structure to be demolished shall be measured. The rate shall be inclusive of the whole structure including roof, all internal structures, fixtures and the like but excluding slab on ground which shall be measured in accordance with Clause II of this Section.

SPECIAL CONDITIONS (CONT'D)

- | | | |
|------|---|---|
| IV. | Asbestos containing corrugated sheeting shall be measured flat (Not girth on corrugations) over the net area covered. No deduction shall be made for openings not exceeding 1.00 m ² . Ridges, hips and the like shall be measured the net length times the average height as fixed. Sheeting of curved, sloped, circular on plan or vertical shall be measured flat. Taking down and clearing away existing metal or wooden framings shall be measured separately. In case where the whole building will be demolished, no separate measurements for framing shall be made. | Measurement of asbestos containing corrugated sheeting |
| V. | Asbestos containing plaster shall be measured the net area. An allowance shall be made for walls and ceilings for additional area of moulded or carved work. No deduction shall be made for openings not exceeding 1.00 m ² . | Measurement of asbestos containing plaster |
| VI. | Asbestos containing plaster boards, ceiling tiles, particle boards, etc. and the like shall be measured over the area covered. No deduction shall be made for openings not exceeding 1.00 m ² . Taking down and clearing away existing metal or wooden framings shall be measured separately. In case where the whole building will be demolished, no separate measurements for framing shall be made. | Measurement of asbestos containing plaster boards, etc. |
| VII. | The rates for demolition of whole building or part of structures shall include for : - | Rates for demolition of whole building or part of structures |
| | (a) Carrying out survey of building or structures prior to demolition and preparation of record drawings, if required. | |
| | (b) Executing the work in such a manner as to ensure the safety of, and cause as little inconvenience as possible to, adjoining properties and occupants, the public in general, passing vehicles and workmen. | |
| | (c) All structures, finishes, fittings and the like from the structural floor level. | |
| | (d) Giving due notice of proposed demolition to relevant public utility companies or Government departments if their installations will be affected and arranging for disconnection of services. Disconnecting and sealing utilities, and marking and recording position of sealed utilities, including liaising with relevant authorities. | |
| | (e) In addition to Clause IX(n) of Section 00 - General Regulations of this Schedule, all enhanced and heavy duty precautionary protective measures including propping, shoring, strutting, special covered walkways, scaffolding, catch fans and platforms, dust-proof screens, heavy duty protective netting and all other measures proposed by the Contractor in the method statement that are required for the execution of the demolition work. | |
| | (f) Watering debris as necessary to reduce dust nuisance to a minimum. | |
| | (g) Providing all precautionary and protective measures, scaffolding, canopy, netting, covering, dust-proof screens, heavy duty protective nettings, warning signs, and all other measures proposed by the Contractor in the method statement that are required for the execution of the demolition works. | |
| | (h) Removing off site all materials, debris and other arisings which shall become the property of the Contractor, and complying with all relevant regulations and requirements relating to the sorting and removal etc. of all demolition materials. | |
| | (i) Submission of method statement, sequence of demolition, all necessary design and calculations for all temporary works including endorsement by Registered Structural Engineer when required for Maintenance Surveyor's approval before commencing demolition work. | |

SPECIAL CONDITIONS (CONT'D)

Rates for demolition of whole building or part of structures (cont'd)	VII.	(j)	Protecting areas adjacent to demolition works from damages resulting from such demolition.
		(k)	Making good to buildings, structures, pavings, etc. and the like caused by the demolition of adjacent building or structure.
		(l)	Settlement monitoring points and reports, as required.
		(m)	Provision of full time safety officer and/or registered professional engineer when required for the demolition work.
Rates for demolition of roof	VIII.		The rates for demolition of concrete structural roof shall, in addition to the requirements of Clause VII, include for : -
		(a)	All parapets and rails.
		(b)	All upper stairs, water tanks and all structures and fittings above roof slab.
Rates for demolition of roof other than concrete structural roof	IX.		The rates for demolition of roof other than concrete structural roof shall, in addition to the requirements of Clause VII, include for : -
		(a)	cladding, roof covering and all supporting framings, flashings, gutters and the like.
		(b)	All associated features to the roof.
Rates for asbestos survey	X.		The rates for asbestos survey and Asbestos Investigation Report shall include for designing, and directing bulk sampling and analysis work but the work itself by an approved Registered Asbestos Laboratory is measured separately. The rate shall also include for labelling asbestos containing materials and obtaining endorsement from Environmental Protection Department on the Report.
Rate for Asbestos Management Plan	XI.		The rate for Asbestos Management Plan shall include preparing an Asbestos Abatement Plan for materials to be removed and an Operation and Maintenance Plan for asbestos containing materials to be retained. The rate shall also include for obtaining endorsement from Environmental Protection Department on the Plan.
Rates for removal of asbestos containing materials	XII.		The rates for removal of asbestos containing materials shall include for : -
		(a)	Carrying out by an approved Registered Asbestos Contractor.
		(b)	All preparation work, air monitoring by approved Registered Asbestos Laboratory, safety precaution, giving statutory notices, disposal of waste and other works as required by the Asbestos Abatement Plan or relevant codes of practice issued under the Air Pollution Control Ordinance and Waste Disposal Ordinance.
		(c)	Provision of respirator and protective clothing for use by Maintenance Surveyor's Representative for inspection of the removal work.
		(d)	Where there is no Asbestos Abatement Plan, preparing and submission of a method statement of the removal works before commencement of the removal works.

SPECIAL CONDITIONS (CONT'D)

The rates for removal of asbestos containing materials do not include for:

- (i) The opening up of pipe duct, etc., to gain access to asbestos containing material, and the subsequent reinstatement, the making good of disturbed surface and the application of non-asbestos substitute material.
- (ii) The setting up, maintaining and taking down of containment and segregation.
- (iii) The employment of an approved Registered Asbestos Consultant to supervise the asbestos removal work.

**Rates for
removal of asbestos
containing materials
(cont'd)**

XIII. G.S. clauses for demolition can be found in Demolition, Site Clearance and Alterations Section of the General Specification for Building.

G.S. clauses

Item	DEMOLITION OF WHOLE BUILDING OR PART OF STRUCTURE		Item
	Demolish whole building or part of structures in any height including clearing away all materials arising from Site : -	A	
	(Note : - The demolition of a whole building or part of structure shall be paid for on a floor-by-floor basis at the rates of the following Items 23001 to 23011 inclusive)	\$	
	<i>Per square metre</i>		
23001	Ground floor storey of building or structure (does not include slab on ground).....	631.10	23001
23002	Suspended ground slab or cockloft of building or structure including staircase.....	242.70	23002
23003	Mezzanine floor of building or structure.....	633.50	23003
23004	First floor of building or structure.....	635.90	23004
23005	Second floor of building or structure.....	638.30	23005
23006	Third floor of building or structure.....	640.80	23006
23007	Fourth floor of building or structure.....	643.30	23007
23008	Additional floor from fifth floor onwards (except roof) of building or structure.....	645.80	23008
23009	Roof (including all structure above roof slab) of building or structure.....	648.40	23009
23010	Ditto but other than concrete (steel, timber or others construction).....	43.10	23010
23011	Single storey shed, building, structure, etc. (other than concrete).....	73.80	23011
	TAKING DOWN AND REMOVAL OF ASBESTOS CONTAINING MATERIALS		
	<i>Each</i>		
23012	Setting up total containment with 3-chamber decontamination unit, maintaining negative air pressure by using HEPA-filtered appliance throughout the course of asbestos abatement work, and taking down the containment on completion..... (The work shall be carried out in accordance with the Asbestos Abatement Plan and the Code of Practice on Asbestos Control - Asbestos Work Using Full Containment and Mini-containment.)	7,875.20	23012
23013	Setting up segregation between asbestos work area and external area using plastic sheets, and decontamination unit and debris port where specified, taking down the segregation on completion..... (The work shall be carried out in accordance with the Code of Practice on Asbestos Control- Safe Handling of Low Risk Asbestos Containing Material.)	5,906.40	23013
23014	Carry out bulk sampling of suspected asbestos containing material and conduct examination using polarized light microscopy method on the presence, content and type of asbestos by an approved Registered Asbestos Laboratory.....	350.00	23014
23015	Carry out further analysis (where the content of asbestos in a bulk sample cannot be determined by polarized light microscopy method) using point counting method by an approved Registered Asbestos Laboratory.....	1,400.00	23015
23016	Carry out environmental air sampling and analysis to measure the fibre concentration by an approved Registered Asbestos Laboratory.....	300.00	23016
23017	Dispose a collection of loose items with asbestos containing materials like fire blankets and bench mats, from one site (The work shall be carried out in accordance with the Code of Practice on Handling, Transportation and Disposal of Asbestos Waste.)	1,000.00	23017
23018	Take down and clear away asbestos containing fire-stopping material around electric cable running through wall and floor.....	1,200.00	23018
23019	Take down and clear away asbestos containing gasket and flexible joint in air duct of any size.....	1,500.00	23019
23020	Take down and clear away asbestos containing arc chute in electric switch box, including attendance by a qualified electrician.....	400.00	23020

Item	TAKING DOWN AND REMOVAL OF ASBESTOS CONTAINING MATERIALS (CONT'D)		Item
		A \$	
	<i>Per square metre</i>		
23021	Take down and clear away from Site asbestos containing roof insulation tiles.....	248.60	23021
23022	Ditto but asbestos containing corrugated or flat cement sheets fixed to a metal or timber frame.....	184.60	23022
23023	Ditto but asbestos containing plaster.....	283.00	23023
23024	Ditto but asbestos containing plaster boards, chalkboards, particle boards, etc. and the like fixed to wall or other structure.....	248.60	23024
23025	Ditto but asbestos containing vinyl tile and tile adhesive.....	250.00	23025
23026	Ditto but asbestos containing cement grille block wall and cement panel wall.....	300.00	23026
23027	Ditto but asbestos containing insulation on calorifier or other surfaces.....	600.00	23027
	<i>Per linear metre</i>		
23028	Ditto but asbestos containing refuse chutes of any sizes.....	1,000.00	23028
23029	Ditto but asbestos containing lagging or in-situ and pre-moulded insulation to pipework of any sizes.....	759.00	23029
23030	Ditto but asbestos containing pipe or drain of any size.....	400.00	23030
	<i>Per item</i>		
23031	Carry out survey in a flat or a room and prepare an Asbestos Investigation Report by an approved Registered Asbestos Consultant..... (The work shall be carried out in accordance with the Code of Practice on Asbestos Control – Preparation of Asbestos Investigation Report, Asbestos Management Plan and Asbestos Abatement Plan.)	1,500.00	23031
23032	Ditto but in any areas of total floor area not exceeding 1,200 m ² of a building or structure.....	6,000.00	23032
23033	Prepare an Asbestos Management Plan by an approved Registered Asbestos Consultant on premises where an Asbestos Investigation Report is already available (The work shall be carried out in accordance with the Code of Practice on Asbestos Control – Preparation of Asbestos Investigation Report, Asbestos Management Plan and Asbestos Abatement Plan.)	1,500.00	23033
23034	Employ an approved Registered Asbestos Consultant to manage the implementation of an Asbestos Abatement Plan. The service shall include for the supervising of the work of the Asbestos Contractor, revising the abatement method, if necessary and liaising with Environmental Protection Department (Note: This item will only be paid for, if ordered by the Maintenance Surveyor in writing.)	6,500.00	23034

Section 24

RECREATION GROUND SURFACES AND PROTECTIVE PADDING

RECREATION GROUND SURFACES AND PROTECTIVE PADDING

SPECIAL CONDITIONS

- | | |
|--|---|
| Measurement | <p>I. All items of surfacing/flooring systems shall be measured over the net area covered including additional girth of curbs, channels and the like. No deduction shall be made for voids not exceeding 0.5m².</p> <p>Rubber protective padding shall be measured the surface area of the face to be protected.</p> |
| Rates generally | <p>II. Unless otherwise stated, the rates shall generally include for supply and installation complete including all necessary fixing accessories all in accordance with manufacturer's instructions.</p> |
| Rates for surfacing/flooring systems, etc. | <p>III. The rates for athletic track/floor surfacing, impact absorbing surfaces shall further include for :-</p> <ul style="list-style-type: none"> (a) All works to flat or sloping surfaces. (b) Laying to falls and currents. (c) All works to curve, circular and any shape required by the Maintenance Surveyor. (d) All necessary cleaning and preparation of new or existing substrate as recommended by manufacturers prior to laying. (e) Working along perimeter or around obstructions. (f) Laying to pattern if required. (g) Provision of literature, test certificates, reports, maintenance manuals and manufacturer's guarantee. (h) Provision of samples. (i) Providing all shop drawings associated with builder work requirements. (j) Providing deed of warranty when required. |
| Rate for recreational surfaces coating system | <p>IV. The rates for recreational surfaces coating system shall further include for :-</p> <ul style="list-style-type: none"> (a) All preparation work to existing surfaces as recommended by the manufacturer. (b) Repairing minor cracks and voids to the substrate with approved proprietary materials. (c) Multi-coloured work and cutting to line. (d) Keeping adjacent surfaces clean as G.S. Item 21.44 and painting surfaces disturbed. (e) Removing all articles of hardware and the like before painting and re-fixing after painting has been completed. (f) Painting sample panels as required. (g) Touching up coated surfaces on completion as required. (h) Protecting and cleaning as G.S. Item 21.43. (i) Removing painted sample panels. (j) Submission of samples, test certificates and manufacturer's guarantee. |

SPECIAL CONDITIONS (CONT'D)

- | | | |
|-----|---|---|
| V. | The rates for line marking on recreational surfaces coating system shall further include for :- | Rate for line marking on recreational surfaces coating system |
| | (a) All preparation work to existing surfaces as recommended by the manufacturer. | |
| | (b) Keeping adjacent surfaces clean as G.S. Item 21.44 and painting surfaces disturbed. | |
| | (c) Removing all articles of hardware and the like before painting and re-fixing after painting has been completed. | |
| | (d) Painting samples as required. | |
| | (e) Setting out and paint all courts to the required standards. | |
| | (f) Touching up coated surfaces on completion as required. | |
| | (g) Protecting and cleaning as G.S. Item 21.43. | |
| | (h) Submission of samples, test certificates and manufacturer's guarantee. | |
| VI. | The rates for provision of "IAAF Certificate and report of measurement" shall further include for :- | Rate for "Provision of IAAF Certificate and report of measurement" |
| | (a) Carrying out examination and survey by an approved independent specialist including labour, supervisory staff and equipment required. | |
| | (b) Provision of examination certificate and IAAF Certification System - Report of Measurement. | |

Item	ATHLETIC TRACK/SPORTS FLOOR SURFACING			Item
	Proprietary athletic surfacings on level or slope and comply relevant IAAF and DIN 18035/6 standards including applying by any means on concrete or flexible surfacing (measured separately), any preparation and protection works, fixing components and accessories, making good and cleaning of affected areas on completion, all in accordance with manufacturer's instructions : -	Supply and fix	Take down and clear away	
	<i>Per square metre</i>	A \$	B \$	
24001	"Conica Conipur EDPM" athletic surfacing, 10 mm thick overall	509.40	41.60	24001
24002	Ditto but 5 mm thick including sealer to existing surfaces	278.10	48.40	24002
	Proprietary athletic surfacings on level or slope and comply relevant IAAF standards including applying by any means on flexible surfacing (measured separately), any preparation and protection works, fixing components and accessories, making good and cleaning of affected areas on completion, all in accordance with manufacturer's instructions : -	Supply and fix	Grind down and clear away	
	<i>Per square metre</i>	A \$	B \$	
24003	"Conica Conipur MX Classic" athletic surfacing, 14.5 mm thick overall	860.10	54.10	24003
24004	Ditto but 5 mm thick including sealer to existing surfaces	326.10	48.40	24004
24005	"Conica Conipur SW" athletic surfacing, 13 mm thick overall	600.50	54.10	24005
24006	Ditto but 5 mm thick including sealer to existing surfaces	238.70	48.40	24006
	Prepare and apply proprietary athletic track/sports floor surfacing line marking paint of any colour and thickness including marking out, preparing surface, cleaning and making good in accordance with the manufacturer's recommendations : -		A \$	
	<i>Per linear metre</i>			
24007	Line n.e. 100 mm wide		43.70	24007
	<i>Each</i>			
24008	Hurdle and relay position		51.70	24008
24009	Letters, characters, logos, signs, etc. and the like n.e. 300 mm high		91.10	24009
24010	Provision of IAAF Certificate (except Class 1 Certificate) including examination certificate and report of measurement		36,915.00	24010
24011	Provision of IAAF Class 1 Certificate including examination certificate and report of measurement		23,379.50	24011
	(The actual rate should be : \$233,795.00 for Item 24015A)			
	(Note : - The above Items 24001 to 24011 inclusive will only be paid for if ordered in writing by the Maintenance Surveyor.)			

Item	MULTI-SPORT SURFACING						Item																								
	"Rollick" multi-sport surfacing in sportroll fantastic colour with EPDM layer on top and cushion course of black rubber sheet underneath : - <i>Per square metre</i>																														
	<table border="1"> <thead> <tr> <th colspan="6">Overall thickness of system (mm)</th> </tr> <tr> <th>4</th> <th>6</th> <th>8</th> <th>10</th> <th>12</th> <th>15</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>						Overall thickness of system (mm)						4	6	8	10	12	15	A	B	C	D	E	F	\$	\$	\$	\$	\$	\$	
Overall thickness of system (mm)																															
4	6	8	10	12	15																										
A	B	C	D	E	F																										
\$	\$	\$	\$	\$	\$																										
24012	Supply and fix multi-sport surfacing to floor or wall	480.80	569.80	614.30	641.10	667.70	712.20	24012																							
24013	Take down and clear away sport surfacing	15.00	22.40	30.00	37.30	44.80	52.30	24013																							
							Supply and fix																								
							A																								
							\$																								
	<i>Per linear metre</i>																														
24014	"Rollick" sport surfacing in-laid line marking n.e. 100 mm wide						124.00	24014																							
	<i>Each</i>																														
24015	"Rollick" sport surfacing in-laid number size : 800 x 800 mm						798.10	24015																							
24016	Ditto logo size : 1200 x 1200 mm						6,462.60	24016																							
	IMPACT ABSORBING SURFACES (SAFETY MATTING)																														
	Proprietary impact absorbing surfaces on level or slope and comply relevant British Standards including any preparation and protection works, fixing components and accessories, making good and cleaning of affected areas on completion, all in accordance with manufacturer's instructions, fixing by any means on tarmacadam or concrete sub-base and the like : - (Note : - All impact absorbing surfaces have weight in dry not less than 10 kg/m ² and should submit the relevant Laboratory report to the Maintenance Surveyor in respect of the impact absorbing surfaces.)																														
	<i>Per square metre</i>																														
							A																								
							\$																								
24017	Impact absorbing surfaces of any colour and size with surface impact attenuation of critical fall height 1.00 m max. and including any approved adhesive						386.20	24017																							
24018	Ditto but with critical fall height 1.30 m maximum						410.70	24018																							
24019	Ditto but with critical fall height 1.50 m maximum						529.70	24019																							
24020	Ditto but with critical fall height 2.00 m maximum						641.10	24020																							
24021	Ditto but with critical fall height 3.00 m maximum						863.60	24021																							
24022	Take down and clear away impact absorbing surface for either of Items 24017 to 24021 inclusive						16.00	24022																							
24023	Take down and set aside for reuse impact absorbing surface ditto						48.90	24023																							
24024	Fix only impact absorbing surface ditto						66.80	24024																							
	<i>Per linear metre</i>																														
24025	Triangular kerb margin for critical fall height 1.00 m maximum						159.20	24025																							
24026	Ditto but with critical fall height 1.30 m maximum						170.90	24026																							
24027	Ditto but with critical fall height 1.50 m maximum						230.40	24027																							
24028	Ditto but with critical fall height 2.00 m maximum						299.40	24028																							
24029	Ditto but with critical fall height 3.00 m maximum						435.90	24029																							
24030	Take down and clear away triangular kerb margin surface for either of Items 24025 to 24029 inclusive						7.00	24030																							

Item	IMPACT ABSORBING SURFACES (SAFETY MATTING) (CONT'D)	Item																				
	<p>Proprietary impact absorbing surfaces on level or slope and comply relevant British Standards including any preparation and protection works, fixing components and accessories, making good and cleaning of affected areas on completion, all in accordance with manufacturer's instructions, fixing by any means on tarmacadam or concrete sub-base and the like :- (cont'd)</p> <p>(Note :- All impact absorbing surfaces have weight in dry not less than 10 kg/m² and should submit the relevant Laboratory report to the Maintenance Surveyor in respect of the impact absorbing surfaces.)</p> <p>Per linear metre</p>	A \$																				
24031	Take down and set aside for reuse triangular kerb margin ditto	16.60 24031																				
24032	Fix only triangular kerb margin ditto	24.70 24032																				
	Per set																					
24033	Extra over impact absorbing surfaces for stepping block 300 x 300 x 600 mm high	949.60 24033																				
	RUBBER PROTECTIVE PADDING																					
	<p>Proprietary rubber protective padding and comply relevant British Standards or DIN Standards all in accordance with manufacturer's instructions, bonding by any means to posts or the like :-</p> <p>Rubber protective padding as "LINAPLUS OZ", 95% pure natural rubber sheet with anti-ozonant additive :-</p>																					
	Each																					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">Net Protection Height</th> </tr> <tr> <th>1.50 m</th> <th>1.80 m</th> <th>2.10 m</th> <th>2.40 m</th> <th>2.70 m</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> <tr> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> <th>\$</th> </tr> </thead> </table>	Net Protection Height					1.50 m	1.80 m	2.10 m	2.40 m	2.70 m	A	B	C	D	E	\$	\$	\$	\$	\$
Net Protection Height																						
1.50 m	1.80 m	2.10 m	2.40 m	2.70 m																		
A	B	C	D	E																		
\$	\$	\$	\$	\$																		
24034	Padding to post, 6 mm thick, circumference of post, n.e. 360 mm girth	2,196.40 24034																				
24035	Padding to post, double layers, 6 mm thick each, ditto	4,269.80 24035																				
24036	Padding to post, 6 mm thick, circumference of post, 360 - 570 mm girth	3,027.00 24036																				
24037	Padding to post, double layers, 6 mm thick each, ditto	5,537.30 24037																				
24038	Padding to post, 6 mm thick, circumference of post, 570 - 780 mm girth	4,060.70 24038																				
24039	Padding to post, double layers, 6 mm thick each, ditto	7,801.40 24039																				
24040	Padding to post, 6 mm thick, circumference of post, 780 - 1150 mm girth	5,771.10 24040																				
24041	Padding to post, double layers, 6 mm thick each, ditto	10,582.30 24041																				
	Each																					
24042	Take down and clear away rubber protective padding for either of Items 24034 to 24041 inclusive	15.60 24042																				
24043	Take down and set aside for reuse protective padding ditto	25.90 24043																				
24044	Fix only protective padding ditto	88.00 24044																				

Item	RUBBER PROTECTIVE PADDING (CONT'D)				Item	
	Proprietary rubber protective padding and comply relevant British Standards or DIN Standards all in accordance with manufacturer's instructions, bonding by any means to posts or the like : "LINAPLUS OZ", 95 % pure natural rubber sheet with anti-ozonant additive in accordance with the manufacturer's recommendations : - <i>Per square metre</i>	Supply and fix	Take down and clear away	Take down and set aside for re-use	Fix only	
24045	Rubber protective padding to wall or column, 6 mm thick	A \$ 2,214.90	B \$ 24.60	C \$ 25.90	D \$ 86.40	24045
24046	Ditto but 12 mm thick	3,568.50	24.60	25.90	86.40	24046
	"Wolik" safety protective padding (for outdoor purposes) and comply relevant British Standards or DIN Standards all in accordance with manufacturer's instructions, bonding by any means to walls, posts and the like : - Safety protective padding comprises PVC coated fabric vinyl cover and 30 mm thick closed cell polyethylene in any coloured finish : - <i>Per square metre</i>					
24047	Wall and column padding not exceeding 10m ² with 12 mm thick 100% recycled plastic backing board.....	4,085.30	24.60	25.90	86.40	24047
24048	Ditto but exceeding 10m ²	3,488.50	24.60	25.90	86.40	24048

Item	RECREATIONAL SURFACES COATING SYSTEM		Item
	Prepare and apply proprietary recreational surfacing coating system : -		
	<i>Per square metre</i>	A \$	
24049	Apply two coats of "Courtmaster-Levelmaster" as filler coat, four coats of "Courtmaster- Cushionmaster" as texturizing resilient coat and two coats of "Courtmaster-Colour- Concentrate" as finishing coat on tarmacadam, concrete or other surfaces	178.70	24049
24050	Apply two coats of "Courtmaster-Levelmaster" as filler coat, four coats of "Courtmaster- Acrylic Resurfacer" as texturizing coat and two coats of "Courtmaster-Colour- Concentrate" as finishing coat on tarmacadam, concrete or other surfaces	148.40	24050
24051	Apply two layers of "Courtmaster-Acrylic Patch Binder" as underlayer, two coats of "Courtmaster-Concretor Adhesion Promotor" as primer, two coats of "Courtmaster-Acrylic Resurfacer" as texturizing coat and two coats of "Courtmaster-Colour-Concentrate" as finishing coat on tarmacadam, concrete or other surfaces	168.60	24051
24052	Add to Items 24052 to 24054 inclusive for laying one layer of fibreglass membrane	34.00	24052
24053	"Levelmaster" filler coat	15.10	24053
24054	"Concrete Adhesion Promoter" primer coat	13.50	24054
24055	"Acrylic Resurfacer" texturizing coat	22.60	24055
24056	"Acrylic Patch Binder" underlayer coat	27.20	24056
24057	"Cushionmaster" texturizing resilient coat	30.20	24057
24058	"Colour-Concentrate" finishing coat	28.20	24058
24059	Apply "Tennislife" acrylic ball court surfacing, consisting of one coat of primer coat, two layers of undercoat and one coat of top coat	161.50	24059
24060	Apply "Minera Color" Medium-Duty-Type mineral-based finish, consisting of one coat primer (0.2 kg per m ²), two coats undercoat (0.3 kg Minera Color plus 0.11kg silica sand per m ²) and one top coat of Minera Color (0.3 kg per m ²)	246.10	24060
24061	Apply "Perfect Color L" with major component of "Landex" inorganic surfacing, consisting of one coat of primer coat, two layers of under coat and one coat of top coat (overall thickness 1.3mm)	179.70	24061
	<i>Per linear metre</i>		
24062	"Courtmaster" line marking n.e. 50 mm wide	32.60	24062
24063	Ditto, but 50 mm wide circular-on-plan n.e. 10.0 m radius	36.90	24063
24064	"Minera Color" line marking n.e. 50 mm wide	49.20	24064
24065	Ditto but circular-on-plan n.e. 10.0 m radius	49.20	24065
24066	"Perfect Color L" line marking n.e. 50 mm wide	49.20	24066
24067	Ditto but circular-on-plan n.e. 10.0 m radius	49.20	24067
24068	"Tennislife" acrylic line marking n.e. 50 mm wide	53.30	24068

Section 25

GEOTECHNICAL WORKS

GEOTECHNICAL WORKS

SPECIAL CONDITIONS

- | | |
|--|--|
| Measurement generally | <p>I. Inspection scaffolding shall be measured the area of the face to be covered by the scaffolding and no allowance shall be made for surface irregularities or other local peculiarities.</p> <p>The rates for inspection scaffolding will only be paid for, if :-</p> <p>(i) No other works will be executed by the Contractor and it is ordered in writing by the Maintenance Surveyor; and</p> <p>(ii) The scaffolding will be taken down and clear away after the use for inspection or uses by other Government departments or other contractor employed by Government.</p> <p>Preliminary stripping to existing slopes shall be measured the surface area of the area or face cleared and no allowance shall be made for surface irregularities or other local peculiarities.</p> <p>Rock scaling shall be measured the surface area of the face to be scaled and no allowance shall be made for surface irregularities or other local peculiarities.</p> <p>Mesh protection to rock slopes shall be measured the surface area of the face to be protected and no allowance shall be made for surface irregularities or other local peculiarities. No deduction shall be made for openings each not exceeding 1.00 m².</p> <p>All geotechnical works items other than those items specifically included in this Section shall be measured and paid for at the appropriate rates under applicable Work Sections in this Schedule.</p> <p>For avoidance of doubt, all rates in this Section and other appropriate rates under applicable Works Sections measured in relation to all geotechnical works shall deem to apply to works executed by the Approved Suppliers of Material and Specialist Contractors for Public Works : Landslip Preventive/Remedial Works to Slopes/Retaining Walls.</p> |
| Measurement of mats for erosion control and geotextiles | <p>II. Mats for erosion control and geotextiles shall be measured net to the area fixed or laid. No deduction shall be made for an area not exceeding 1.00 m².</p> |
| Measurement of surface protection | <p>III. Different types of surface protection shall be measured as the surface area of the face to be covered and no allowance shall be made for surface irregularities or other local peculiarities. No deduction shall be made for an area not exceeding 1.00 m².</p> |
| Measurement of topographic survey | <p>IV. Measurement of topographic survey shall be the net area covered by the survey. Measurement shall either be taken at the date of commencement or at the completion or both.</p> <p>The rate for topographic survey will only be paid for if order in writing by the Maintenance Surveyor.</p> |
| Rates generally | <p>V. The rates for all items shall generally include for :-</p> <p>(a) Conveying, lowering, hoisting, placing in any position at any height on slopes.</p> <p>(b) All multi-handling between excavation and final position.</p> <p>(c) All multi-handling between temporary deposition in spoil heaps and removal from site.</p> <p>(d) All scaffolding and temporary works.</p> <p>(e) Submission of survey records before and upon the completion of the geotechnical works.</p> |

SPECIAL CONDITIONS (CONT'D)**PART I - EARTHWORK ON EXISTING SLOPES**

- | | | |
|-------|--|---|
| VI. | The rates for excavation on existing slopes shall further include for : - | Rates for excavation on existing slopes |
| | (a) Mobilization, maintenance and demobilization of excavator, roller, compaction plant, moving plant and the like. | |
| | (b) Allowance for increase in bulk of all materials arising from excavation. | |
| | (c) Excavating in any type of ground including earth, clay, sand, gravel, loose boulders each not exceeding 0.20 m ³ , any hard surface and the like. | |
| | (d) Setting out the work and all profiles, rods, etc. and work straight or circular on plan. | |
| | (e) Excavating to form buttress. | |
| | (f) Cutting down shrubs, under-growths, etc. including trees not exceeding 150mm girth, grubbing up roots and clearing away. | |
| | (g) Removing old drains, channels, stepped channels, catch pits, etc. and sealing off connections. | |
| | (h) Provision of temporary drainage to the area affected and clearing away after completion. | |
| | (i) Getting out excavated materials by any means necessary and deposit excavated material in heaps. | |
| | (j) Cutting and trimming banks and slopes. | |
| | (k) Protecting the exposed surfaces of excavation by any necessary means. | |
| | (l) Preparation and submission of survey record when ordered by the Maintenance Surveyor. | |
| | (m) Depositing in temporary spoil heaps. | |
| VII. | The rates for earth filling to existing slopes shall further include for : - | Rates for earth filling to existing slopes |
| | (a) Additional bulk of filling required to allow for compaction. | |
| | (b) Forming and trimming banks and slopes and compaction. | |
| | (c) Temporary retaining boards to edges and slopes. | |
| | (d) Removing, replacing or making good placed or compacted filling material as required where filling material subsequently becomes damaged or unsuitable. | |
| | (e) Protecting the exposed surfaces of filling by any necessary means. | |
| | (f) Apart from probe tests measured separately, all soil tests including in-situ density tests, maximum dry density tests and etc. as required. | |
| VIII. | The rates for soil-cement filling shall further include for : - | Rates for soil-cement filling |
| | (a) Preliminary mix trials. | |
| | (b) Preliminary trial panels. | |
| | (c) Preparation of surface to be filled. | |
| | (d) Compacting and finishing surfaces. | |
| | (e) Recording and submitting records. | |

SPECIAL CONDITIONS (CONT'D)

PART II - SLOPE TREATMENTSPreliminary Stripping

Rates for
preliminary
stripping of
top soil

- IX. The rates for preliminary stripping of top soil shall further include for : -
- (a) Excavation and disposal of topsoil including loose soil, clearance of vegetations and undergrowths.
 - (b) Taking up and clearing away disused drains, stepped channels and the like.
 - (c) Temporary protection of stripped area.
 - (d) Clearing of the slope surface and the area so affected after stripping work by means of compressed air or other approved means.
 - (e) Clearing, trimming, scarifying and regulating the surface for slope treatment works.
 - (f) Taking readings, measurements and observations, recording and submitting survey records.
 - (g) Reinstatement of over-stripped area with approved materials.
 - (h) Removing surplus soil and debris.

Rates for
preliminary
stripping of
impermeable
surfaces

- X. The rates for preliminary stripping of impermeable surfaces shall further include for : -
- (a) Excavation and disposal of existing chunam, sprayed concrete and other impermeable surfaces in any thickness including vegetations and under-growths.
 - (b) Cutting of reinforcement.
 - (c) Taking up and clearing away disused drains, stepped channels and the like.
 - (d) Temporary protection of stripped areas.
 - (e) Clearing of the slope surface and the area so affected after stripping work by means of compressed air.
 - (f) Clearing, trimming, scarifying and regulating the surface for slope treatment works.
 - (g) Taking readings, measurements and observations, recording and submitting survey records.
 - (h) Reinstatement of over-stripped area.
 - (i) Removing surplus soil and debris.

Inspection Scaffolding

Rates for
inspection
scaffolding

- XI. The rates for inspection scaffolding shall further include for : -
- (a) Provision, maintenance, inspection, replacement (if required) and subsequent removal.
 - (b) Safety ropes, harnesses hand and foot holds.
 - (c) Platforms, ramps, access, protection fences and barriers.
 - (d) Provision of drawings, calculations in relation to the design of Temporary Works.
 - (e) Allowance in the works programme for inspection carried out by the Maintenance Surveyor.
 - (f) Obtaining permission from the Maintenance Surveyor for any dismantle works.
 - (g) Compliance with the requirements of the current Code of Practice for Scaffolding Safety.

SPECIAL CONDITIONS (CONT'D)Probe Test

- | | | |
|------|--|-------------------------------------|
| XII. | The rates for GEO probe test shall include for : - | Rates for GEO
probe test |
| | <ul style="list-style-type: none"> (a) Carrying out all test and soil samples by the personnel of a Hong Kong Laboratories Accreditation Scheme (HOKLAS) accredited laboratory using their own equipment and providing such labour and assistance as may be required. (b) Collect samples selected by the Maintenance Surveyor. (c) Report work. (d) Payment of all charges incurred. (e) All apparatus and calibration, and associated equipment. (f) Filling up holes. (g) In the case of testing the works carried out by the Contractor, re-testing up to the satisfaction of the Maintenance Surveyor. | |

Surface Protection

- | | | |
|-------|--|---|
| XIII. | The rates for chunam shall further include for : - | Rates for
chunam |
| | <ul style="list-style-type: none"> (a) Cleaning, trimming and regulating the surface to be covered. (b) Preliminary trial panels. (c) Dowels (if required). (d) Weepholes and filter materials. (e) Finishing and curing. (f) Fixing anchorage. (g) Protection of trees, structures, street furniture and the like. (h) Recording and submitting records. | |
| XIV. | The rates for sprayed concrete shall further include for : - | Rates for
sprayed
concrete |
| | <ul style="list-style-type: none"> (a) Providing, setting up, maintenance and removal of concrete spraying plant, equipment and all necessary ancillary equipment. (b) Preliminary mix trials. (c) Preliminary trial panels. (d) Test specimens and test panels. (e) Preparation of surface to be covered. (f) Formwork. (g) Weepholes and filter materials. (h) Finishing and curing. (i) Sounding, and removal and replacement of sub-standard or hollow areas. | |

SPECIAL CONDITIONS (CONT'D)

Surface Protection (cont'd)

- Rates for sprayed concrete (cont'd)**
- XIV. (j) Coring samples, testing and making good core holes to match existing.
- (k) Protection of trees, structures, street furniture and the like.
- (l) Recording and submitting records.
- Rate for slope registration sign plate**
- XV. The rate for supply and installation of sign plate shall include for excavation in any material and disposal of surplus material; backfilling and compaction; waterproof membrane or blinding layer; formwork; reinforcement and concrete, supply and protective treatment of all metal/alloy or other components of the sign plate ; painting; welding; qualification tests for welders and welding tests.

Rock Scaling, Removal of Boulders, Mesh Protections, and Sealing and Infilling Rock Joints

- Rates for scaling and trimming of rock slopes**
- XVI. The rates for scaling and trimming of rock slopes shall further include for : -
- (a) Soil cushions and subsequent removal.
- (b) Washing down.
- (c) Scaling and trimming.
- (d) Disposal of scale, debris and boulders.
- (e) Temporary protective measures and subsequent removal.
- Rates for mesh protection to rock slopes**
- XVII. The rates for mesh protection to rock slopes shall further include for : -
- (a) Preparation of surface.
- (b) Bolts and anchorages.
- (c) Lapping, binding and jointing.
- (d) Removing.
- Rates for rock or boulder splitting and removal**
- XVIII. The rates for rock or boulder splitting and removal shall further include for : -
- (a) Mobilization, maintenance and demobilization of plant, tools and ancillary equipment necessary for the works.
- (b) Moving the plant, tools and ancillary equipment at various locations.
- (c) Temporary supports for plant, tools and ancillary.
- (d) Temporary protective measures and subsequent removal.
- (e) Disposal of boulders and debris.
- Rates for sealing and infilling rock joints**
- XIX. The rates for sealing and infilling rock joints shall further include for : -
- (a) Clearing unsuitable infill.
- (b) Excavating in rock joints to the depth required.
- (c) Concrete, cement mortar and/or epoxy mortar.
- (d) Formwork.

SPECIAL CONDITIONS (CONT'D)Rock Scaling, Removal of Boulders, Mesh Protections, and Sealing and Infilling Rock Joints (cont'd)

- | | | |
|------|---|---|
| XIX. | (e) Reinforcement.
(f) Masonry infilling. | Rates for sealing and infilling rock joints (cont'd) |
| XX. | The rates for concrete buttress shall further include for : -
(a) Preliminary mix trials.
(b) Slump and other tests as required.
(c) Preparation of surface to be buttressed.
(d) Compacting and finishing surfaces.
(e) Formwork, fair face, if required.
(f) Reinforcement, if required.
(g) PVC outlets connected to relief drainage system.
(h) Recording and submitting records. | Rates for concrete buttress |

Rock Dowels

- | | | |
|------|--|------------------------------|
| XXI. | The rates for rock dowels shall further include for : -
(a) Providing, setting up, maintenance and removal of sufficient number of drill rigs and ancillary equipment.
(b) Moving the drill rigs, plant and ancillary equipment between rock dowel positions.
(c) Drilling in any material.
(d) Water, compressed air and drilling fluids.
(e) Washing out holes.
(f) Grouting.
(g) Protective treatment to stud components.
(h) Recording and submitting records. | Rates for rock dowels |
|------|--|------------------------------|

Rock Bolts

- | | | |
|-------|--|-----------------------------|
| XXII. | The rates for rock bolts shall further include for : -
(a) Providing, setting up, maintenance and removal of sufficient number of drill rigs, plant and ancillary equipment.
(b) Moving the drill rigs, plant and ancillary equipment between rock bolt positions.
(c) Drilling in any material.
(d) Water, compressed air and drilling fluids.
(e) Washing out holes.
(f) Grouting. | Rates for rock bolts |
|-------|--|-----------------------------|

SPECIAL CONDITIONS (CONT'D)

Rates for
rock bolts
(cont'd)

- XXII. (g) Protective treatment to steel components.
(h) Recording and submitting records.

Soil Nails

Rates for
soil nails

- XXIII. The rates for soil nails shall further include for : -
- (a) Providing, setting up, maintenance and removal of sufficient number of drill rigs, plant and ancillary equipment.
 - (b) Moving the drill rigs, plant and ancillary equipment between soil nail positions.
 - (c) Drilling in any material.
 - (d) Temporary support to drill holes.
 - (e) Water, compressed air and drilling fluids.
 - (f) Washing out holes.
 - (g) Pre-grouting and reaming.
 - (h) Provision and installation of steel bars.
 - (i) Grouting.
 - (j) Protective treatment to steel components.
 - (k) Couplers and centralisers.
 - (l) Head assembly, concrete, reinforcement and formwork.
 - (m) Excavation for soil nail head and disposal of surplus materials.
 - (n) Supporting device including wire, ties and the like.
 - (o) Recording and submitting records.
 - (p) Reinstatement to affected areas.
 - (q) Protective treatment to steel components, including provision of heat-shrinkable sleeve, if ordered by the Maintenance Surveyor.

Rates for pull
out tests and
performance
tests on soil
nails

- XXIV. The rates for pull out tests and performance tests on soil nails shall further include for : -
- (a) Setting up, operating, calibrating and maintaining load jacks.
 - (b) Provisions of temporary supports to spread the applied loads.
 - (c) Applying and re-applying the test loads and releasing.
 - (d) Pulling out of soil nail for inspection and grouting the drillhole.
 - (e) Cutting off any protrusion from the drillhole and grout the remaining part of drillhole.
 - (f) Taking readings, measurements and observations of the test and recording and submitting results of test.
 - (g) Submission of remedial proposal and replacement of all soil nails failing the test.
 - (h) Reinstatement of affected areas.

SPECIAL CONDITIONS (CONT'D)Drainage and Erosion Control

- XXV. The rates for relief drains shall further include for : - **Rates for relief drains**
- (a) Nails, bolts and nuts for fixing and jointing.
 - (b) Excavation and disposal of material from joints, faults and discontinuities.
 - (c) Connecting to outlets including junction boxes.
 - (d) Weep holes.
 - (e) Trial length.
 - (f) Sealing up impermeable layers.
 - (g) Submission of method statement.
 - (h) P.V.C. flange and end cap.
- XXVI. The rates for raking drains shall further include for : - **Rates for raking drains**
- (a) Providing, setting up, maintenance and removal of sufficient number of drill rigs and plant together with all ancillary equipment.
 - (b) Moving the drill rigs, plant and ancillary equipment between drain hole positions.
 - (c) Drilling in any material.
 - (d) Temporary support to drill holes.
 - (e) Water, compressed air and drilling fluids.
 - (f) Taking soil samples and rock cores.
 - (g) Recording and submitting records.
 - (h) Disposal of material.
 - (i) Temporary sealing for holes.
 - (j) Pipes, tubes, drain liners, drain screens and the like, including slots and perforations.
 - (k) Filter sheaths and fabric.
 - (l) Jointing and socketing.
 - (m) Bentonite plugs and mortar seals.
 - (n) Marking.
 - (o) Reinstatement of affected areas.
- XXVII. The rates for maintenance of raking drains shall include for : - **Rates for maintenance of raking drains**
- (a) All the equipments and labors, including supply and pumping of water, required for carrying out the maintenance of raking drains as per paragraphs 16 & 17 of WBTC No. 10/91 and agreed by the Maintenance surveyor.

SPECIAL CONDITIONS (CONT'D)

Rates for maintenance of raking drains (cont'd)	XXVII.	(b)	Provision of new removable inner liner as per CEDD Standard Drawing No C2403D if required by the Maintenance surveyor.
		(c)	Disposal of the old inner liner in an environmentally acceptable way as agreed by the Maintenance Surveyor.
Rates for mats for erosion control and geotextiles	XXVIII.		The rates for mats for erosion control and geotextiles shall further include for : -
		(a)	Preparation of surfaces to receive mats including filling irregularities with suitable materials.
		(b)	Pins, anchorages and the like for fixing mats.
		(c)	Allowance for laps between joints.
			<u>Geotechnical Instrumentation and Sundries</u>
Rates for tree rings and planter holes	XXIX.		The rates for tree rings and planter holes in sprayed concrete shall, in addition to the requirements of Clause XIV, include for : -
		(a)	Thickened concrete, reinforcement and anchor bars, if required.
		(b)	Removal of any excessive sprayed concrete inside tree ring and planter hole.
		(c)	Filling hole with topsoil mix.
Rates for supply and installation of survey monitoring point	XXX.		The rates for supply and installation of survey monitoring point shall further include for : -
		(a)	Installation of stainless steel bolts of minimum 12mm diameter or other similar and approved with tapered lower end firmly embedded in stone or concrete and protected hemispherical upper end with 1mm diameter drilled hole at apex.
		(b)	Provision of concrete bedding as directed by the Maintenance Surveyor.
Rates for monitoring operation at each survey monitoring point	XXXI.		The rates for monitoring operation at each survey monitoring point shall include for : -
		(a)	Labour, supervisory staff and equipment necessary for the recording of measurements to the frequency as required by the Maintenance Surveyor.
		(b)	Preparation and submission of daily records.
Rates for topographic survey	XXXII.		The rates for topographic survey shall include for : -
		(a)	Carrying out the topographic survey by the qualified personnel of an approved independent firm using their own equipment and providing such labour and assistance as may be required.
		(b)	Report work and preparation of survey plans.
		(c)	Submission of approved survey plan duly signed by an authorised surveyor.
		(d)	Payment of all charges incurred.
Rates for monitoring of piezometer	XXXIII.		The rate shall include for provision of labour / supervisory staff and dipmeter for measuring of groundwater level.

SPECIAL CONDITIONS (CONT'D)Specification for Geotechnical Works

- | | | |
|--------|--|------------------------------|
| XXXIV. | The specification clauses for geotechnical works can be found in : - | Specification clauses |
| | (a) The Particular Specification for Geotechnical Works on Soil and Rock Slopes in the Contract. | |
| | (b) The General Specification for Building. | |
| | (c) The General Specification for Civil Engineering Works (Hong Kong Government). | |

The Particular Specification shall prevail over other specifications and the General Specification for Building shall prevail over the General Specification for Civil Engineering Works.

Geotechnical Works found in other section of this Schedule

The following works items were for information only and should not be constitute as an exhaustive list. Items included under other Works Sections shall be measured and paid for if applicable.

- | | | |
|----------|---|--|
| XXXV. | Turfing and grassing to slopes can be found in Section 01 - Excavation of this Schedule. | Turfing and grassing to slopes |
| XXXVI. | Drainage system to slopes can be found in Section 16 - Drainage and Cable Duct of this Schedule. | Drainage system to slopes |
| XXXVII. | Concrete staircase to slopes and reinforcement to buttress can be found in Section 02 - Concrete Work of this Schedule. | Concrete works to slopes |
| XXXVIII. | Steel railing and staircase to slopes can be found in Section 10 - Steel and Metal Work of this Schedule. | Steel railing and staircase to slopes |
| XXXIX. | Paintwork to slopes can be found in Section 15 - Painting of this Schedule. | Paintwork to slopes |

Item	PART I - EARTHWORK ON EXISTING SLOPES		Item
	EARTHWORK ON EXISTING SLOPES	A	
	<i>Per cubic metre</i>	\$	
25001	Excavate on slopes to reduce levels.....	59.20	25001
25002	Load surplus excavated materials and remove from Site.....	118.50	25002
25003	Spread and level or patching up excavated material on slopes in layers n.e. 250 mm including compacting and handling from spoil heaps.....	42.30	25003
25004	Approved soil brought to Site from Contractor's own source and wheeled, spread, levelled, patching up, watered if necessary and compacted in layers as filling..... (Note : - This item will only be paid for, if ordered by the Maintenance Surveyor in writing)	72.60	25004
	SOIL - CEMENT FILLING		
	<i>Per cubic metre</i>		
25005	Soil-cement filling including compacting and finishing surfaces as required.....	105.30	25005
	REMEDIAL WORK TO BANKS, LANDSLIPS, ETC.		
	<i>Per cubic metre</i>		
25006	Excavate as necessary to trim and cut back eroded, fissured or overhanging banks, slopes and sides of slips at any height to revised profile, throw or lower earth, boulders, shrubs and other debris arising to bottom of slope and break or cut up these arisings together with any former material and debris which had been washed down, into a suitable size for handling, and load and remove from Site and erection, use and clearing away of any ladders, gang planks, shoring, etc., required (Total volume of material actually loaded and removed measured)	126.00	25006

Item	PART II - SLOPE TREATMENTS		A		Item			
	PRELIMINARY STRIPPING		\$					
	<i>Per square metre</i>							
25007	Preliminary stripping of top soil in any depth.....		22.10		25007			
25008	Preliminary stripping of impermeable surfaces in any thickness.....		34.50		25008			
	INSPECTION SCAFFOLDING							
	<i>Per square metre</i>							
25009	Inspection scaffolding.....		51.40		25009			
	PROBE TEST							
	<i>Each</i>							
25010	GEO probe test n.e. 3.00 m deep.....		1,723.00		25010			
25011	Ditto 3.00 - 6.00 m deep.....		2,873.90		25011			
	SURFACE PROTECTION							
	<i>Per square metre</i>							
25012	Chunam, 50 mm thick.....		70.20		25012			
25013	Ditto, 75 mm thick.....		93.60		25013			
	Grade 20 or 20MPa sprayed concrete with A252 galvanised welded mesh to BS4483, and with 50 mm diameter weepholes at 1.50 m staggered centres in each direction							
	<i>Per square metre</i>							
			Sprayed concrete with mesh					
			Single layer mesh		Double layer mesh			
		Thickness (mm)	75	100	125	150	200	
		A	B	C	D	E		
		\$	\$	\$	\$	\$		
25014	Sprayed concrete to slopes.....		157.90	183.70	209.50	235.70	339.40	25014
	Grade 20 or 20MPa sprayed concrete, with single layer of 50 x 50 x 2.7 mm wire diameter galvanised welded mesh, and with 50 mm diameter weepholes at 1.50 m staggered centres in each direction							
	<i>Per square metre</i>							
			Sprayed concrete with mesh					
		Thickness (mm)	50	75	100			
		A	B	C				
		\$	\$	\$				
25015	Sprayed concrete to slopes.....		94.90	120.50	146.60			25015

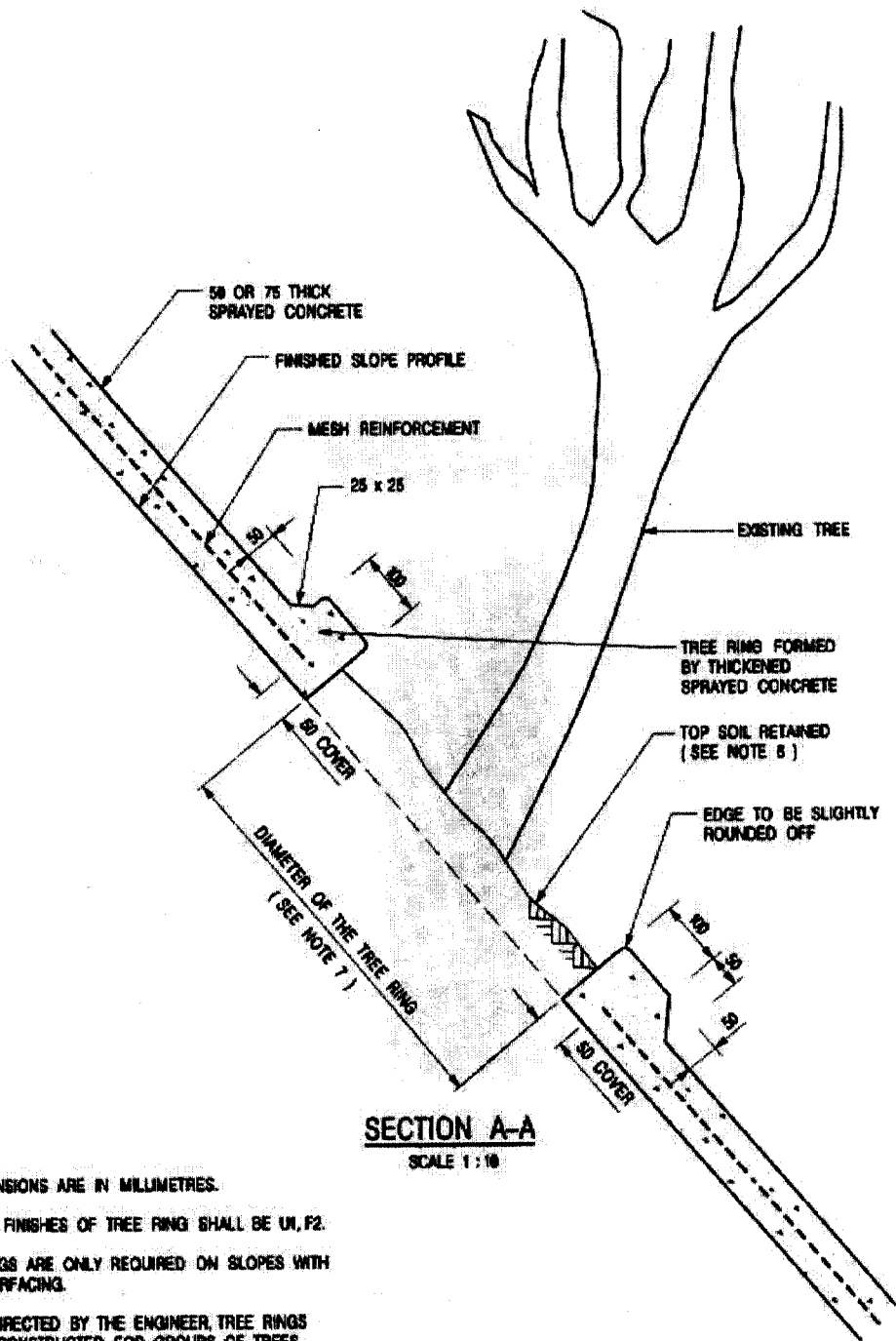
Item	PART II - SLOPE TREATMENTS (CONT'D)	Sprayed concrete without mesh		Item
	SURFACE PROTECTION (CONT'D)			
	Grade 20 or 20MPa sprayed concrete, without mesh, and with 50 mm diameter weepholes at 1.50 m staggered centres in each direction	Thickness (mm)	50 75	
	<i>Per square metre</i>		A B \$ \$	
25016	Sprayed concrete to slopes.....		73.50 99.40	25016
	<i>Per square metre</i>		A \$	
25017	Extra over Items 25014 to 25016 inclusive for colour pigment in sprayed concrete.....		17.90	25017
	<i>Per number</i>			
25018	Supply and installation of slope registration sign plate as ArchSD Architectural Branch Standard Drawing Nos. 7116_01 to 7116_05.....		100.00	25018
	ROCK SCALING, REMOVAL OF BOULDERS, MESH PROTECTION AND SEALING AND INFILLING ROCK JOINTS			
	<i>Per square metre</i>			
25019	Scaling and trimming of rock slopes including boulders n.e. 0.2 m ³		102.10	25019
25020	Mesh protection as Civil Engineering and Development Department Standard Drawing No. C2205C.....		115.70	25020
	<i>Per cubic metre</i>			
25021	Sealing rock joints with 1:3 cement mortar.....		576.10	25021
25022	Infilling rock joints with no fine concrete.....		378.50	25022
25023	Ditto but with Grade 20 or 20MPa concrete.....		526.70	25023
25024	Ditto but with soil-cement fill.....		375.80	25024
25025	Ditto but with masonry bedded in cement mortar.....		460.90	25025
25026	Ditto but with epoxy mortar.....		1,206.80	25026
25027	Concrete Grade 20 or 20MPa buttress.....		950.60	25027
25028	Concrete Grade 30 or 30MPa buttress.....		1,045.50	25028
25029	Split rocks or boulders exceeding 0.20 m ³ and remove from Site.....		401.80	25029

Item	PART II - SLOPE TREATMENTS (CONT'D)	Rock dowels diameter (mm)				Item
		25	32	40	50	
		A	B	C	D	
		\$	\$	\$	\$	
	ROCK DOWELS					
	Supply and install rock dowels as detailed in Civil Engineering and Development Department Standard Drawing No. C2202B					
	<i>Each</i>					
25030	Rock dowels n.e. 2.00 m long.....	659.30	712.60	765.90	819.30	25030
25031	Ditto 2.00 - 3.00 m long.....	923.00	983.60	1,044.40	1,102.40	25031
25032	Ditto 3.00 - 4.00 m long.....	1,186.70	1,254.80	1,322.60	1,390.50	25032
25033	Ditto 4.00 - 5.00 m long.....	1,450.50	1,525.80	1,601.10	1,676.10	25033
25034	Ditto 5.00 - 6.00 m long.....	1,714.20	1,796.90	1,879.50	1,961.80	25034
25035	Ditto 6.00 - 7.00 m long.....	1,977.90	2,067.90	2,157.80	2,247.40	25035
25036	Add to Item 25035 for additional length in stages of 1.00 m.....	263.70	271.10	278.40	285.60	25036
	ROCK BOLTS					
	Supply and install rock bolts as detailed in Civil Engineering and Development Department Standard Drawing C2201C, working load 100 kN, free length :-					
	<i>Each</i>					
					A	
					\$	
25037	Rock bolt n.e. 1.00 m long.....				1,626.80	25037
25038	Ditto 1.00 - 2.00 m long.....				1,985.70	25038
25039	Ditto 2.00 - 3.00 m long.....				2,353.70	25039
25040	Ditto 3.00 - 4.00 m long.....				2,711.30	25040
25041	Ditto 4.00 - 5.00 m long.....				3,069.60	25041
25042	Add to Item 25041 for additional length in stages of 1.00 m.....				379.70	25042

Item	PART II - SLOPE TREATMENTS (CONT'D)	Soil nails diameter in mm				Item
	SOIL NAILS	25	32	40	50	
	Supply and install soil nails as detailed in Civil Engineering and Development Department Standard Drawing No. C2106/1H, C2106/2E and C2106/3E : -	A	B	C	D	
	<i>Each</i>	\$	\$	\$	\$	
25043	Soil nail n.e. 3.00 m long.....	1,264.90	1,321.90	1,405.00	1,535.50	25043
25044	Ditto 3.00 - 4.00 m long.....	1,770.90	1,850.70	1,966.90	2,149.70	25044
25045	Ditto 4.00 - 5.00 m long.....	2,276.90	2,379.40	2,528.90	2,763.90	25045
25046	Ditto 5.00 - 6.00 m long.....	2,297.30	2,422.60	2,605.30	2,892.50	25046
25047	Ditto 6.00 - 7.00 m long.....	2,715.00	2,863.10	3,079.00	3,418.40	25047
25048	Ditto 7.00 - 8.00 m long.....	3,132.70	3,303.60	3,552.70	3,944.30	25048
25049	Ditto 8.00 - 9.00 m long.....	3,550.40	3,744.00	4,026.40	4,470.20	25049
25050	Ditto 9.00 - 10.00 m long.....	3,968.10	4,184.50	4,500.10	4,996.10	25050
25051	Ditto 10.00 - 11.00 m long.....	4,026.90	4,266.10	4,615.00	5,163.20	25051
25052	Ditto 11.00 - 12.00 m long.....	4,410.40	4,672.40	5,054.50	5,655.00	25052
25053	Ditto 12.00 - 13.00 m long.....	4,794.00	5,078.70	5,494.00	6,146.70	25053
25054	Ditto 13.00 - 14.00 m long.....	5,177.50	5,485.00	5,933.60	6,638.40	25054
25055	Ditto 14.00 - 15.00 m long.....	5,561.00	5,891.30	6,373.10	7,130.20	25055
25056	Add to Item 25055 for additional length in stages of 1.00 m.....	369.30	392.10	425.30	477.50	25056
	<i>Each</i>				A \$	
25057	Pull-out test of any diameter.....				7,464.30	25057
25058	Performance test of any diameter.....				2,393.40	25058

Item	PART II - SLOPE TREATMENTS (CONT'D)		Item
DRAINAGE AND EROSION CONTROL			
<i>Each</i>			
25059	Relief drains 200 mm wide, length n.e. 1.50 m, as detailed in Civil Engineering and Development Department Standard Drawing No. C2404C.....	A \$ 210.20	25059
25060	Ditto for length 1.50 - 3.00 m.....	630.50	25060
25061	Ditto for length 3.00 - 4.50 m.....	1,050.90	25061
Overall length of each drain			
n.e. 25.00 m exceeding 25.00 m			
A B \$ \$			
25062	Raking drains Type 1 upwards at 0° - 45° to the horizontal as detailed in Civil Engineering and Development Department Standard Drawing No. C2403D.....	135.90 163.20	25062
25063	Ditto but Type 2.....	178.20 213.90	25063
25064	Ditto but Type 3.....	220.40 264.60	25064
<i>Per linear metre</i>			
25065	Mobilization for maintenance of raking drains, including flushing with a clean air/water jet with a suitable pressure as agreed by the Maintenance Surveyor, in accordance with the requirements as paragraphs 16 & 17 of ETWB TC(W) No. 10/91.....	A \$ 6,000.00	25065
<i>Per number</i>			
25066	Extra over item for completion, to the satisfaction of the Maintenance Surveyor, maintenance of raking drains, including flushing with a clean air/water jet with a suitable pressure in accordance with the requirements at paragraphs 16 & 17 of ETWB TC(W) No. 10/91.....	300.00	25066
<i>Per square metre</i>			
25067	"Enkamat" mats for erosion control	45.10	25067
25068	"Miramat TM8" mats for erosion control	55.40	25068
25069	"Grow Mat" mats for erosion control	30.80	25069
25070	"Mirafi" NS-series non-woven geotextiles for soil separation, filtration and protection.....	18.60	25070
25071	"Enkadrain" geocomposite drainage filter system or equivalent.....	54.70	25071
25072	"Nylex - Cordrain CD1200" geocomposite drainage filter system or equivalent.....	80.50	25072
25073	"Miradrain 6000" geocomposite drainage filter system or equivalent.....	96.00	25073
25074	"Miradrain 9000" geocomposite drainage filter system or equivalent.....	110.20	25074

Item	PART II - SLOPE TREATMENTS (CONT'D)		Item
	DRAINAGE AND EROSION CONTROL (CONT'D)	A	
		\$	
	<i>Per cubic metre</i>		
25075	Coarse granular filter (Filter B).....	200.90	25075
25076	Fine granular filter (Filter A).....	194.10	25076
	<i>Each</i>		
25077	Filter drainage pipe as Civil Engineering and Development Department Standard Drawing No. C2302F, 50 mm diameter, length n.e. 3.00 m.....	68.30	25077
25078	Ditto, for length 3.00 - 6.00 m.....	110.50	25078
	GEOTECHNICAL INSTRUMENTATION AND SUNDRIES		
	<i>Per month</i>		
25079	Monitoring operation at each survey monitoring point.....	130.00	25079
	<i>Each</i>		
25080	Supply and installation of survey monitoring point.....	275.70	25080
25081	Dismantle and remove survey monitoring point, reinstatement of disturbed surfaces and making good.....	7.80	25081
25082	Monitoring operation at each standpipe piezometer.....	10.00	25082
25083	Construct tree rings in sprayed concrete as detailed in Civil Engineering and Development Department Standard Drawing C2104E, inner ring diameter n.e. 800 mm.....	189.20	25083
25084	Ditto 800 - 1,200 mm.....	251.60	25084
25085	Ditto 1,200 - 1,800 mm.....	377.80	25085
25086	Ditto 1,800 - 2,400 mm.....	475.30	25086
25087	Ditto 2,400 - 3,000 mm.....	630.00	25087
25088	150 mm Diameter perforated pipe planter holes with top soil mix in sprayed concrete as Civil Engineering and Development Department Standard Drawing No. C2507A.....	32.90	25088
	<i>Per square metre</i>		
25089	Carry out topographic survey..... (Note : - This item will only be paid for, if ordered by the Maintenance Surveyor in writing.)	2.60	25089



SECTION A-A
SCALE 1:10

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SURFACE FINISHES OF TREE RING SHALL BE M1, F2.
3. TREE RINGS ARE ONLY REQUIRED ON SLOPES WITH HARD SURFACING.
4. WHERE DIRECTED BY THE ENGINEER, TREE RINGS MAY BE CONSTRUCTED FOR GROUPS OF TREES LOCATED CLOSE TOGETHER, THE DIAMETER OF SUCH TREE RING SHALL BE DETERMINED BY THE ENGINEER ON SITE.
5. SPRAYED CONCRETE TO BE COLOURED AS SPECIFIED.
6. WHERE DIRECTED BY THE ENGINEER, SURFACE LEVEL WITHIN TREE RING MAY BE MADE UP WITH SOIL MIX.
7. THE DIAMETER OF TREE RING SHALL BE THE DIAMETER OF THE TREE TRUNK AT THE GROUND LEVEL PLUS 600mm MINIMUM WHERE THERE ARE EXPOSED TREE ROOTS AT THE TRUNK BASE, THE DIAMETER OF TREE RING SHALL BE DETERMINED BY THE ENGINEER ON SITE.

E	GENERAL REVISION.	Original Signed	12.2005
D	DETAILS OF TREE RING AMENDED.	Original Signed	01.2005
C	GENERAL REVISION.	Original Signed	12.2002
B	MINOR AMENDMENT.	Original Signed	08.2001
A	GENERAL REVISION.	Original Signed	3.94
REF.	REVISION	SIGNATURE	DATE

TREE RING



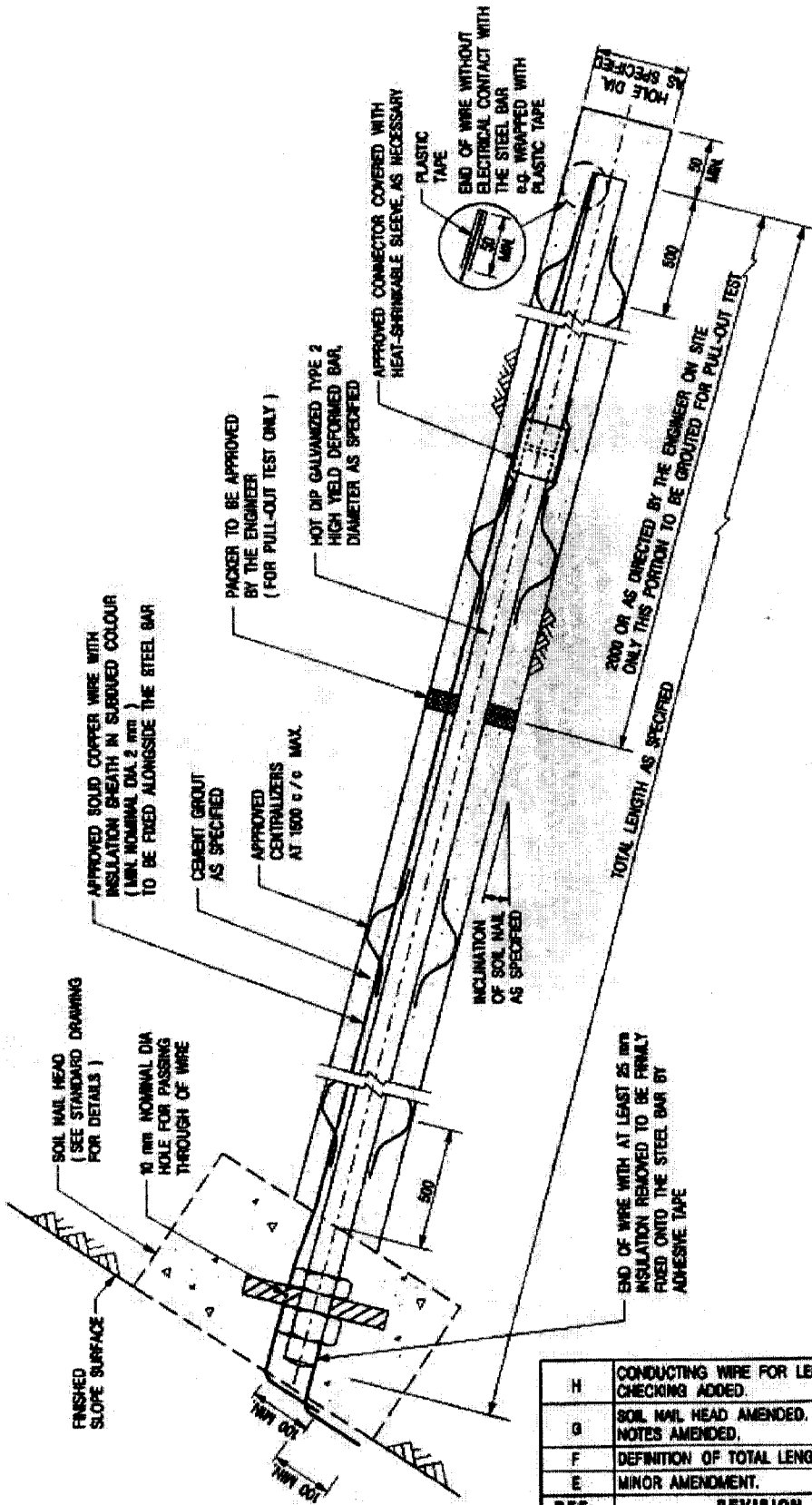
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE AS SHOWN

DRAWING NO.

DATE JAN 1991

C2104E



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DRILLHOLE SHALL BE COMPLETELY FILLED WITH GROUT TO THE FINISHED SLOPE SURFACE.
3. MINIMUM GROUT COVER OF 20 mm SHALL BE PROVIDED TO THE BAR.
4. PROTRUSION OF WIRE SHALL BE PROVIDED IF NAIL LENGTH CHECKING AFTER CASTING OF SOIL NAIL HEAD IS REQUIRED.
5. THE CONDUCTING WIRE AND HEAT-SHRINKABLE SLEEVE SHALL BE OMITTED FOR SOIL NAILS UNDER PULL OUT TEST.

H	CONDUCTING WIRE FOR LENGTH CHECKING ADDED.	Original Signed	11.2004
G	SOIL NAIL HEAD AMENDED. NOTES AMENDED.	Original Signed	01.2004
F	DEFINITION OF TOTAL LENGTH CLARIFIED.	Original Signed	03.2002
E	MINOR AMENDMENT.	Original Signed	5.99
REF.	REVISION	SIGNATURE	DATE

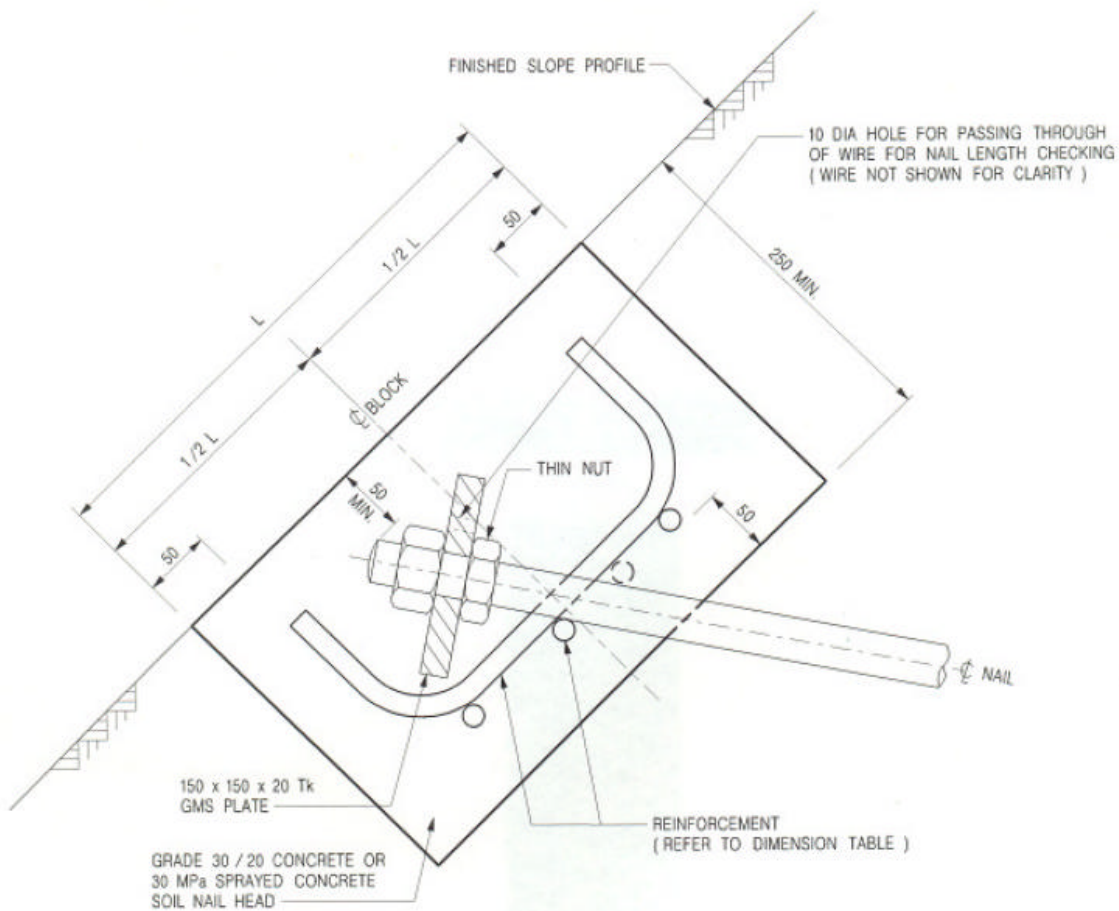
**TYPICAL DETAILS OF
SOIL NAIL**



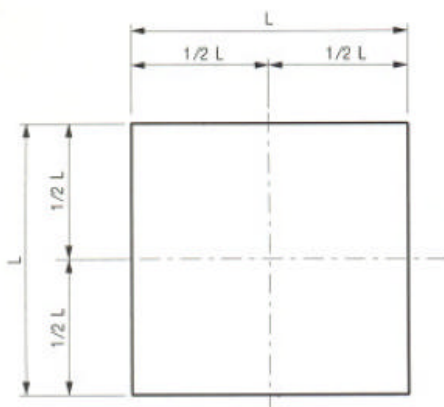
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE DIAGRAMMATIC
DATE MARCH 1990

DRAWING NO.
C2106 / 1H



TYPICAL SECTION



VIEW NORMAL TO SOIL NAIL HEAD

DIMENSION TABLE

NAIL HEAD SIZE (L X L) (mm)	REINFORCEMENT
400 x 400	3T16 U-BARS BOTH WAYS
600 x 600	3T16 U-BARS BOTH WAYS
800 x 800	4T16 U-BARS BOTH WAYS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE CLEARANCE BETWEEN THE EDGE OF CENTRAL HOLE AND NAIL STEEL BAR SHALL BE LESS THAN 2 mm.
3. THE SIZE OF SOIL NAIL HEAD SHALL BE SPECIFIED BY THE ENGINEER.
4. CONSTRUCTION OF SOIL NAIL HEAD SHALL BE REFERRED TO PARTICULAR SPECIFICATIONS.

E	DIMENSION TABLE ADDED. 10 DIA. HOLE ON GMS PLATE ADDED.	Original Signed	01.2005
-	NEW ISSUE.	Original Signed	10.2003
REF.	REVISION	SIGNATURE	DATE

SOIL NAIL HEAD DETAILS



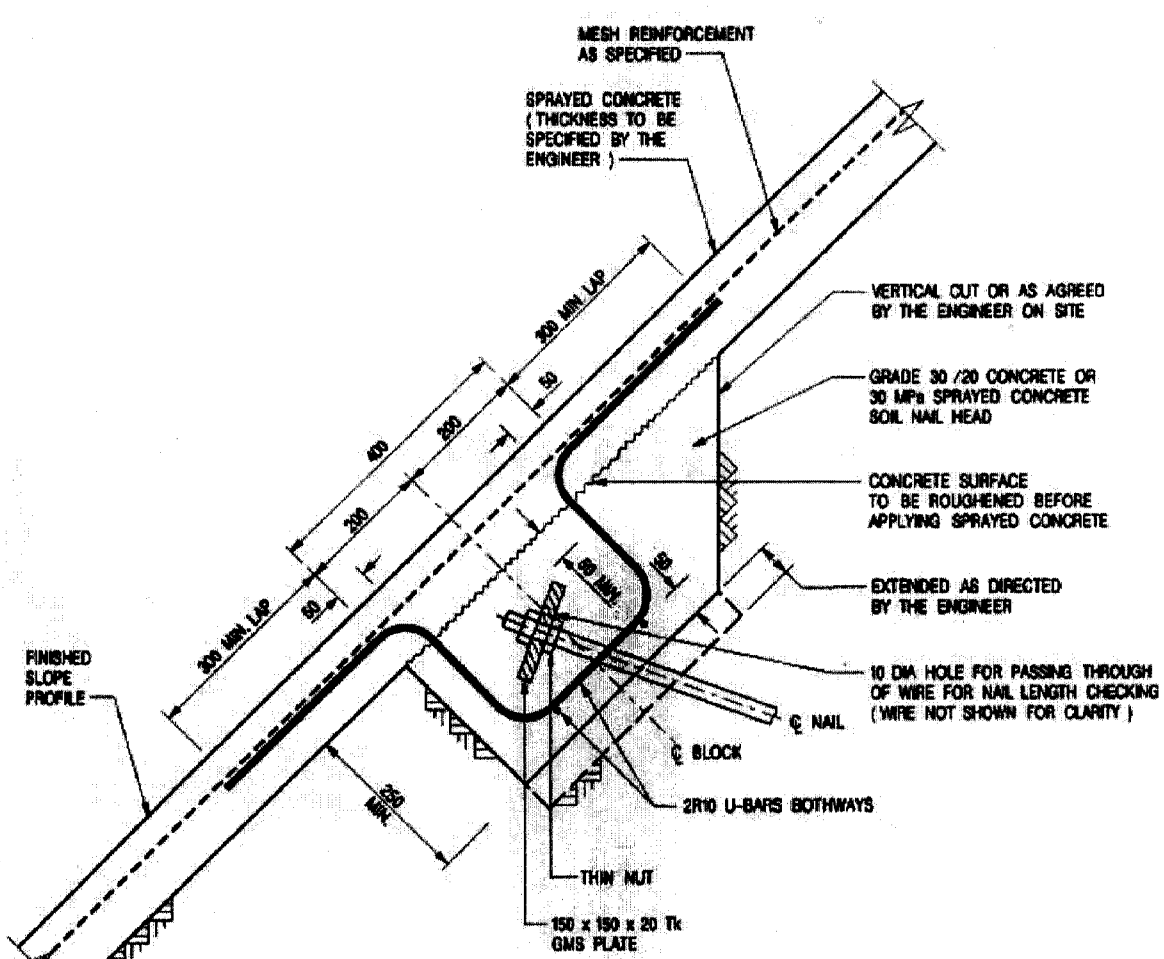
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC

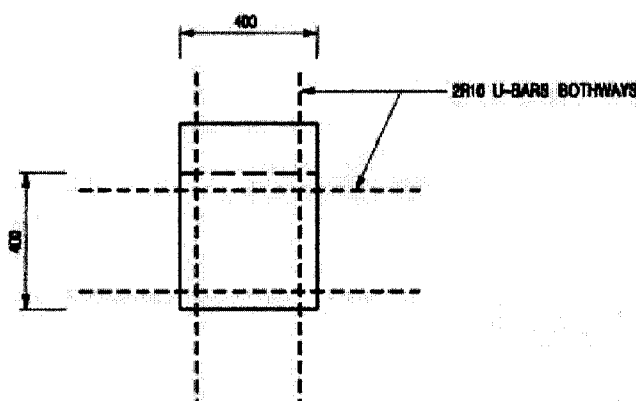
DRAWING NO.

DATE OCT 2003

C2106 / 2E



TYPICAL SECTION
SCALE 1 : 10



VIEW NORMAL TO SOIL NAIL HEAD
SCALE 1 : 20

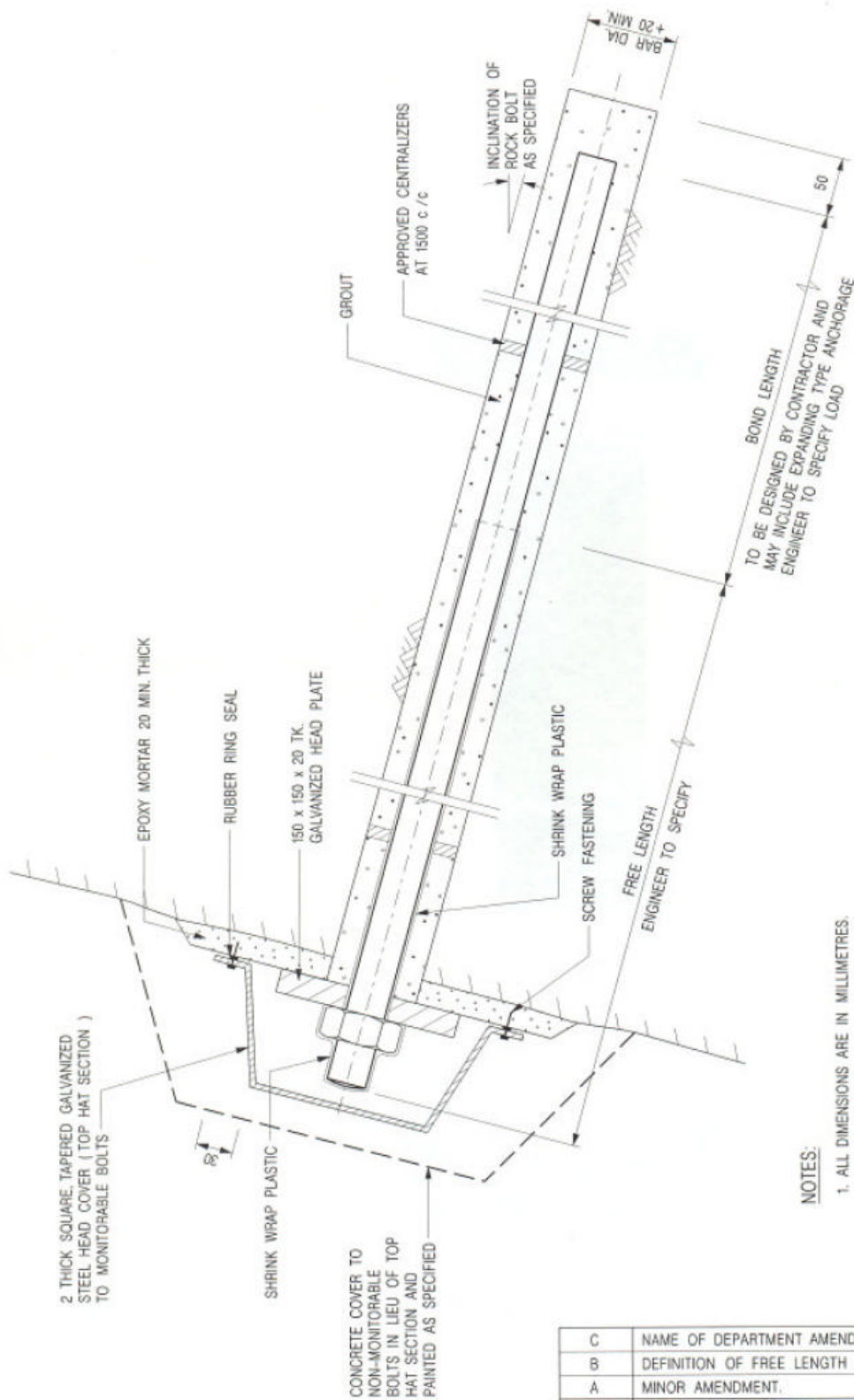
- NOTES :**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. THE CLEARANCE BETWEEN THE EDGE OF CENTRAL HOLE AND NAIL STEEL BAR SHALL BE LESS THAN 2 mm.
 3. MINIMUM COVER 25 mm.
 4. CONSTRUCTION OF SOIL NAIL HEAD SHALL BE REFERRED TO PARTICULAR SPECIFICATIONS.

E	10 DIA. HOLE ON GMS PLATE ADDED.	Original Signed	01.2005
D	MINOR AMENDMENT.	Original Signed	08.2001
C	U-BARS AMENDED.	Original Signed	05.97
B	REDRAWN.	Original Signed	01.96
A	GENERAL REVISION.	Original Signed	10.92
REF.	REVISION	SIGNATURE	DATE

SOIL NAIL HEAD DETAILS FOR SPRAYED CONCRETE SLOPE SURFACE

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE AS SHOWN DRAWING NO. C2106 / 3E
DATE JAN 1991



NOTES:

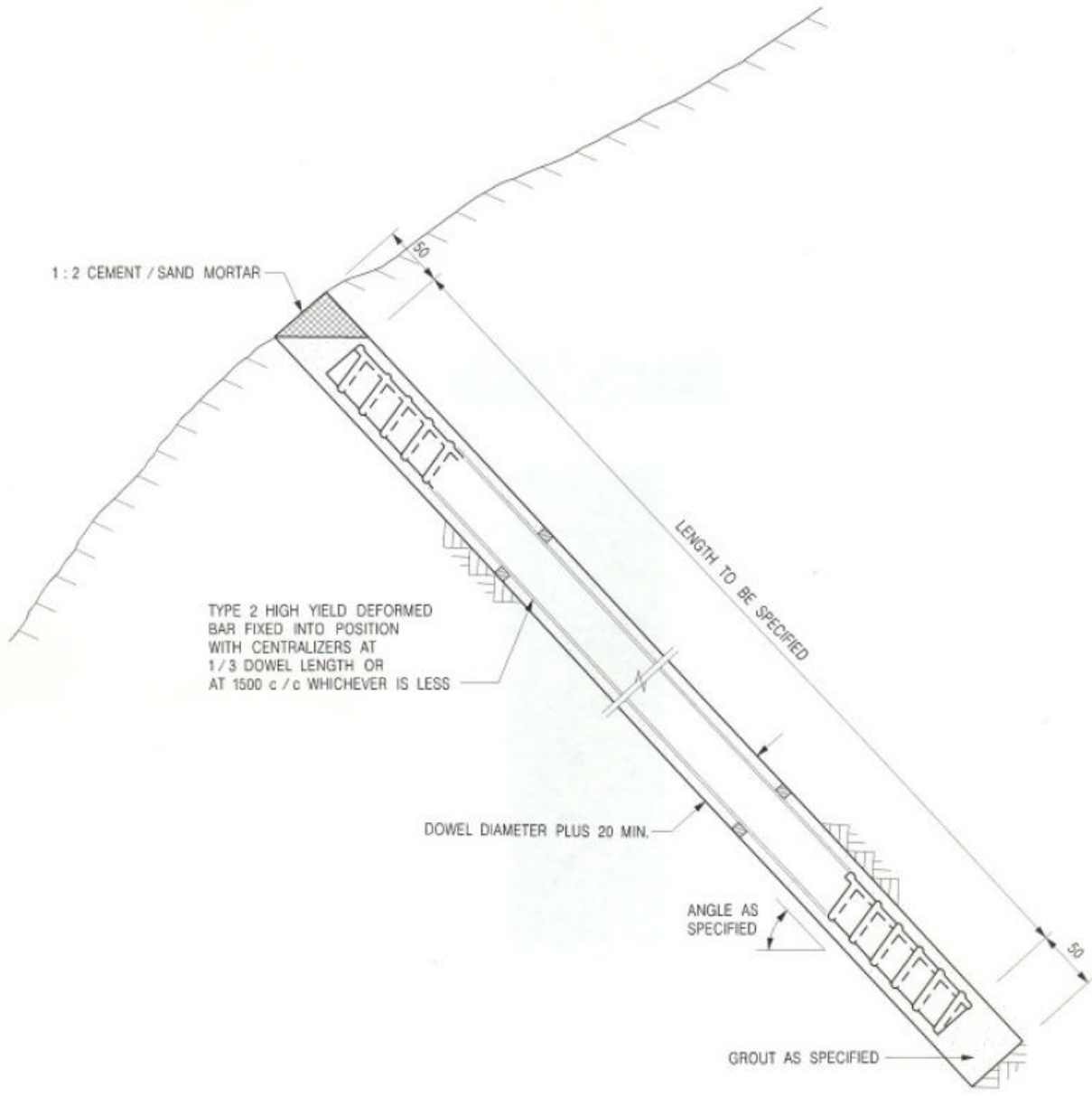
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ENGINEER SHALL SPECIFY:
 - i) MONITORABLE OR NON-MONITORABLE BOLT
 - ii) WORKING LOAD
 - iii) FREE LENGTH
 - iv) TESTING REQUIREMENTS.
3. GROUT TUBE IS NOT SHOWN FOR CLARITY.
4. GROUT SHALL COMPLETELY FILL THE HOLE TO THE FINISHED SLOPE SURFACE.

C	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
B	DEFINITION OF FREE LENGTH CLARIFIED.	Original Signed	03.2002
A	MINOR AMENDMENT.	Original Signed	08.2001
REF.	REVISION	SIGNATURE	DATE

TYPICAL ARRANGEMENT OF ROCK BOLT

CEDD
CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC	DRAWING NO. C2201C
DATE JAN 1991	



NOTES:

ALL DIMENSIONS ARE IN MILLIMETRES.

B	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
A	MINOR AMENDMENT.	Original Signed	08.2001
REF.	REVISION	SIGNATURE	DATE

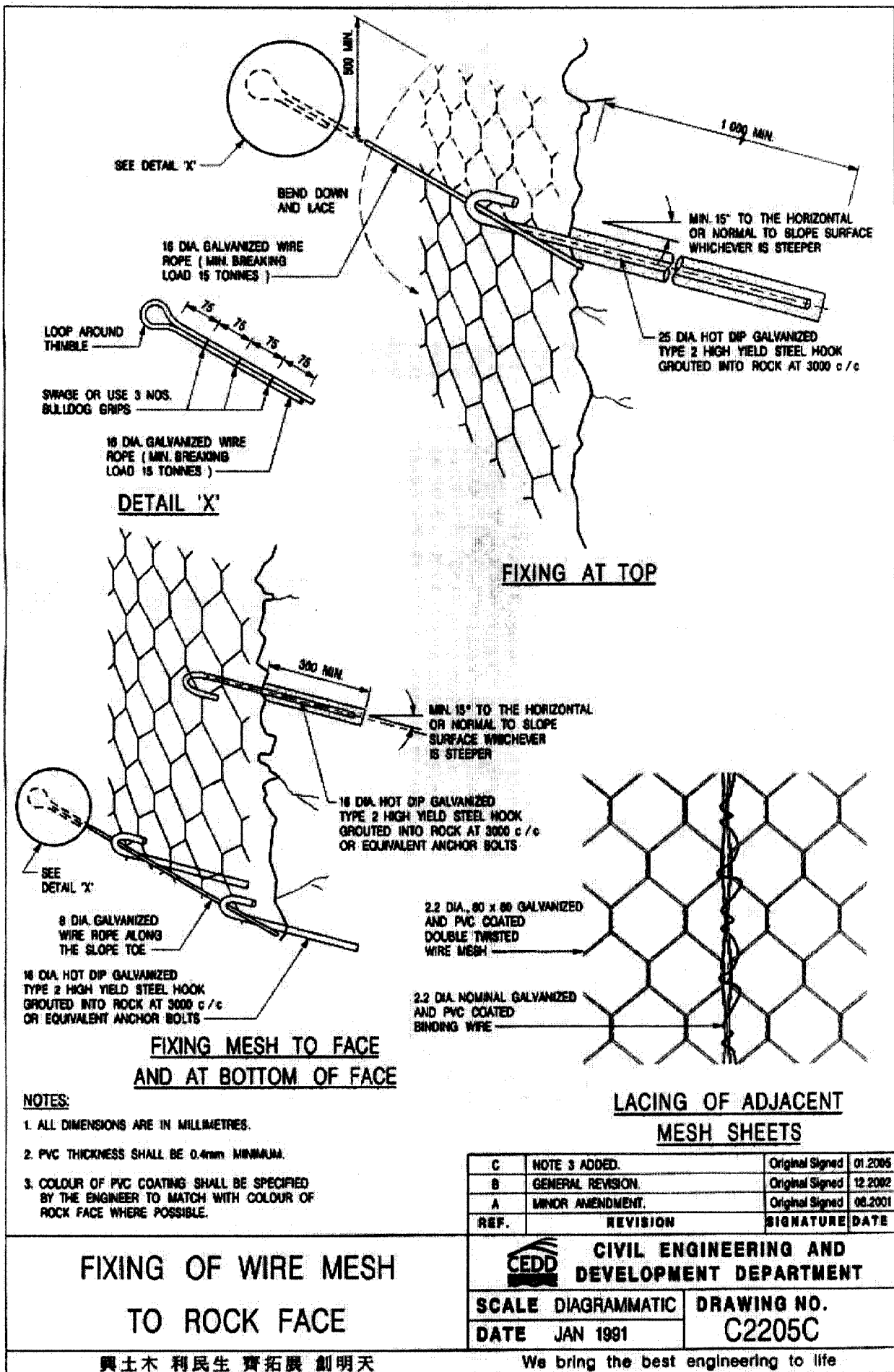
**TYPICAL ARRANGEMENT OF
ROCK DOWEL**

**CEDD CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 5

**DRAWING NO.
C2202B**

DATE JAN 1991



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. PVC THICKNESS SHALL BE 0.4mm MINIMUM.
3. COLOUR OF PVC COATING SHALL BE SPECIFIED BY THE ENGINEER TO MATCH WITH COLOUR OF ROCK FACE WHERE POSSIBLE.

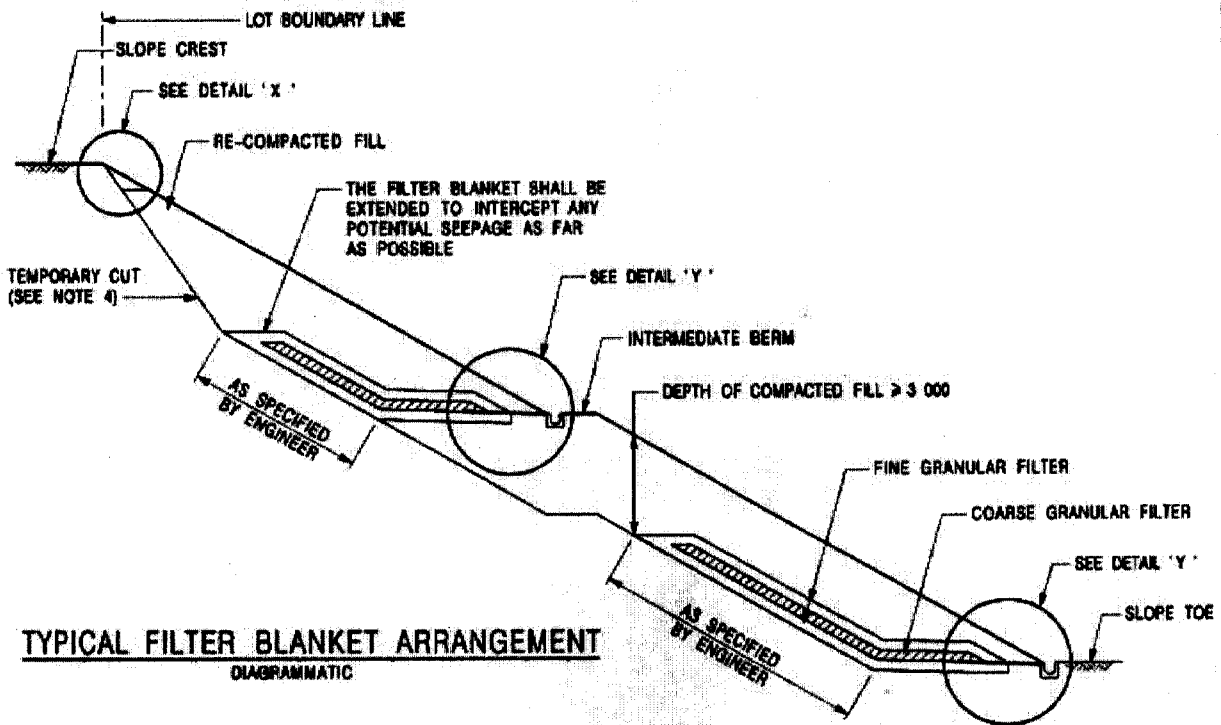
C	NOTE 3 ADDED.	Original Signed	01.2005
B	GENERAL REVISION.	Original Signed	12.2002
A	MINOR AMENDMENT.	Original Signed	06.2001
REF.	REVISION	SIGNATURE	DATE

**FIXING OF WIRE MESH
TO ROCK FACE**

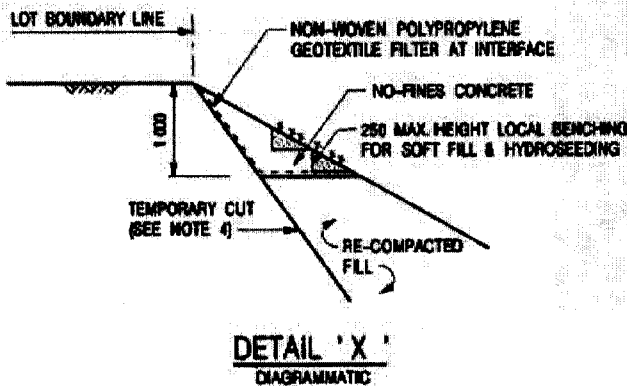
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC DRAWING NO. C2205C

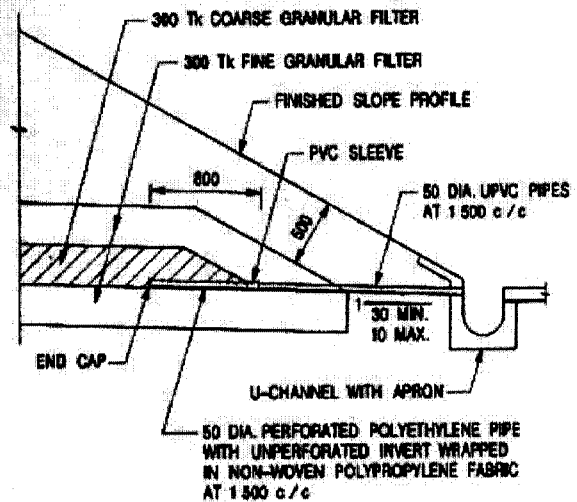
DATE JAN 1991



TYPICAL FILTER BLANKET ARRANGEMENT
DIAGRAMMATIC



DETAIL 'X'
DIAGRAMMATIC



DETAIL 'Y'
SCALE 1:50

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DETAILS OF BENCHING FOR PLACEMENT OF FILL ARE SHOWN ON STD. DRG. NO. C2301.
3. FINE GRANULAR FILTER SERVES AS FILTER FOR SOIL. COARSE GRANULAR FILTER SERVES AS FILTER FOR FINE GRANULAR FILTER. THE GRANULAR FILTERS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH GEO PUBLICATION NO. 1/83.
4. DIMENSIONS OF TEMPORARY CUT TO BE SPECIFIED BY THE ENGINEER. SUPPORT TO THE TEMPORARY CUT SHALL BE DESIGNED BY THE CONTRACTOR.
5. SINGLE LAYER OF 500 mm THICK GRANULAR FILTER LAYER SHALL BE USED FOR ROCKFILL.

REF.	REVISION	SIGNATURE	DATE
F	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
E	DETAIL 'Y' AMENDED.	Original Signed	01.2004
D	GENERAL REVISION.	Original Signed	12.2002
C	LAYOUT REVISED AND DETAIL 'X' ADDED.	Original Signed	8.99
B	MINOR AMENDMENT.	Original Signed	1.96
A	MINOR AMENDMENT.	Original Signed	3.94

**FILTER BLANKET FOR FILL SLOPE
AND FILLING DETAILS
AT SLOPE CREST**



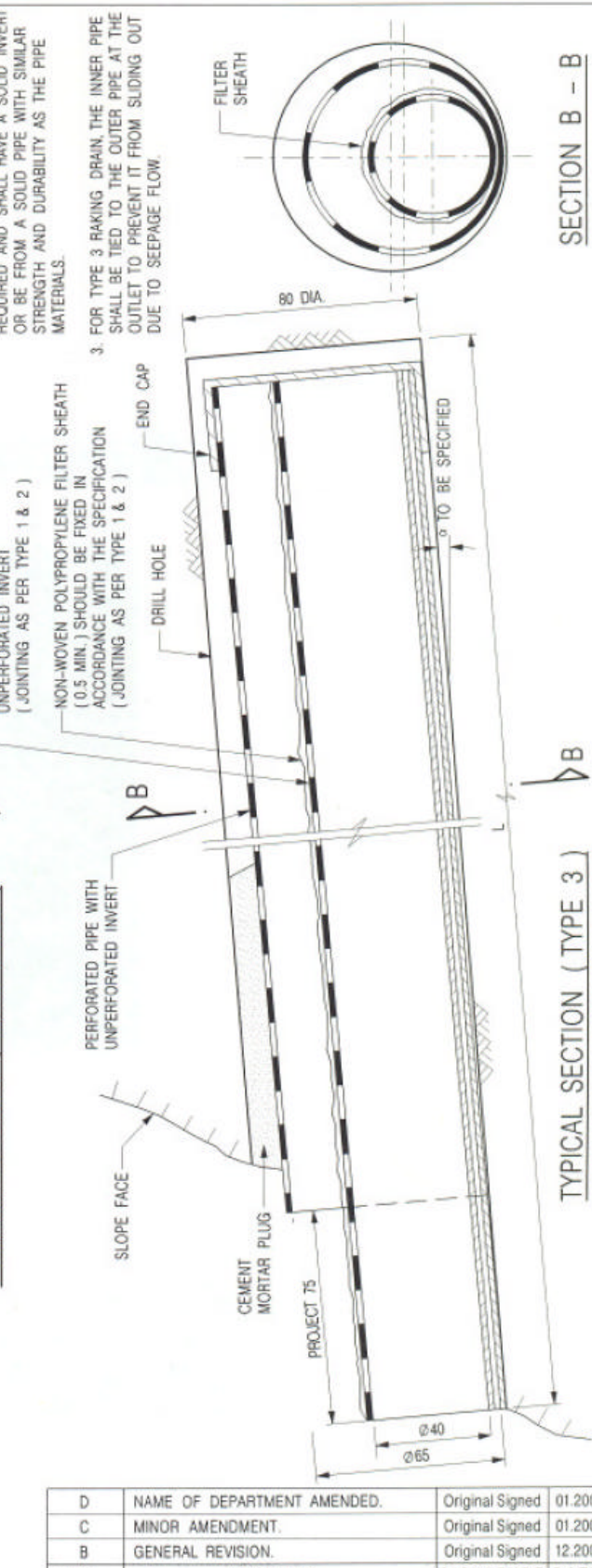
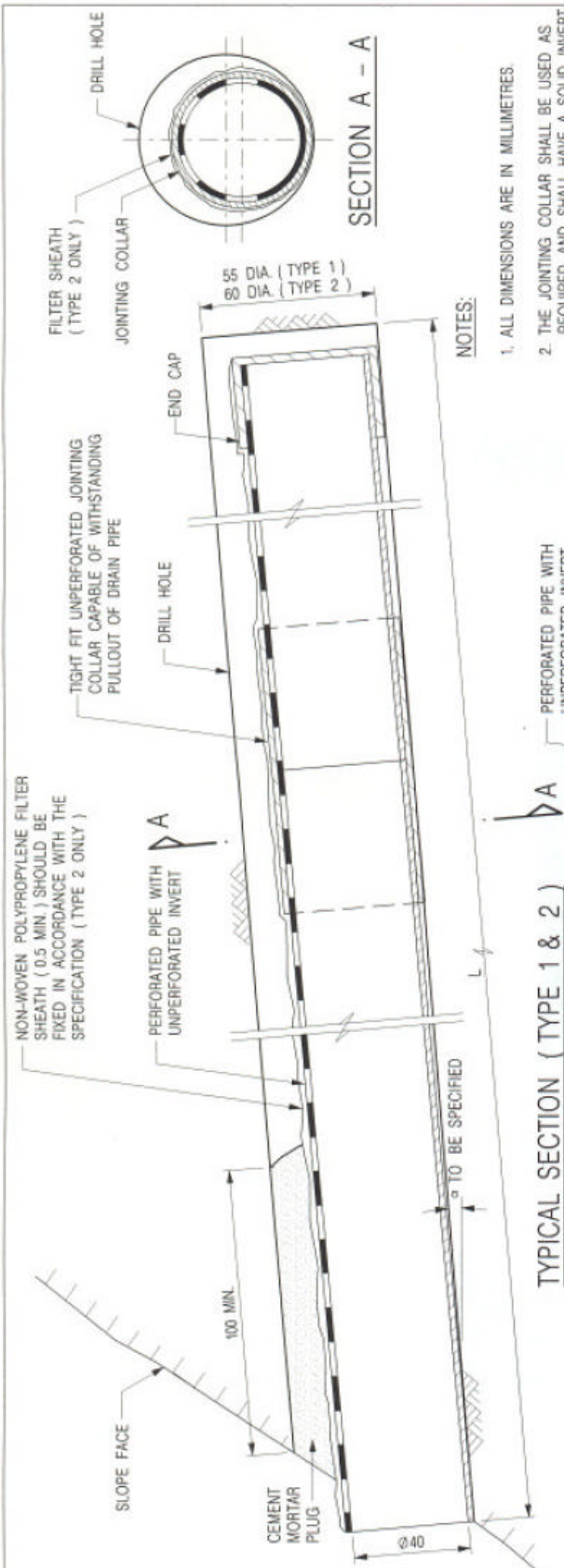
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE AS SHOWN

DRAWING NO.

DATE JAN 1991

C2302F



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE JOINTING COLLAR SHALL BE USED AS REQUIRED AND SHALL HAVE A SOLID INVERT OR BE FROM A SOLID PIPE WITH SIMILAR STRENGTH AND DURABILITY AS THE PIPE MATERIALS.
3. FOR TYPE 3 RAKING DRAIN, THE INNER PIPE SHALL BE TIED TO THE OUTER PIPE AT THE OUTLET TO PREVENT IT FROM SLIDING OUT DUE TO SEEPAGE FLOW.

TYPICAL SECTION (TYPE 1 & 2)

TYPICAL SECTION (TYPE 3)

TYPICAL ARRANGEMENT OF RAKING DRAINS

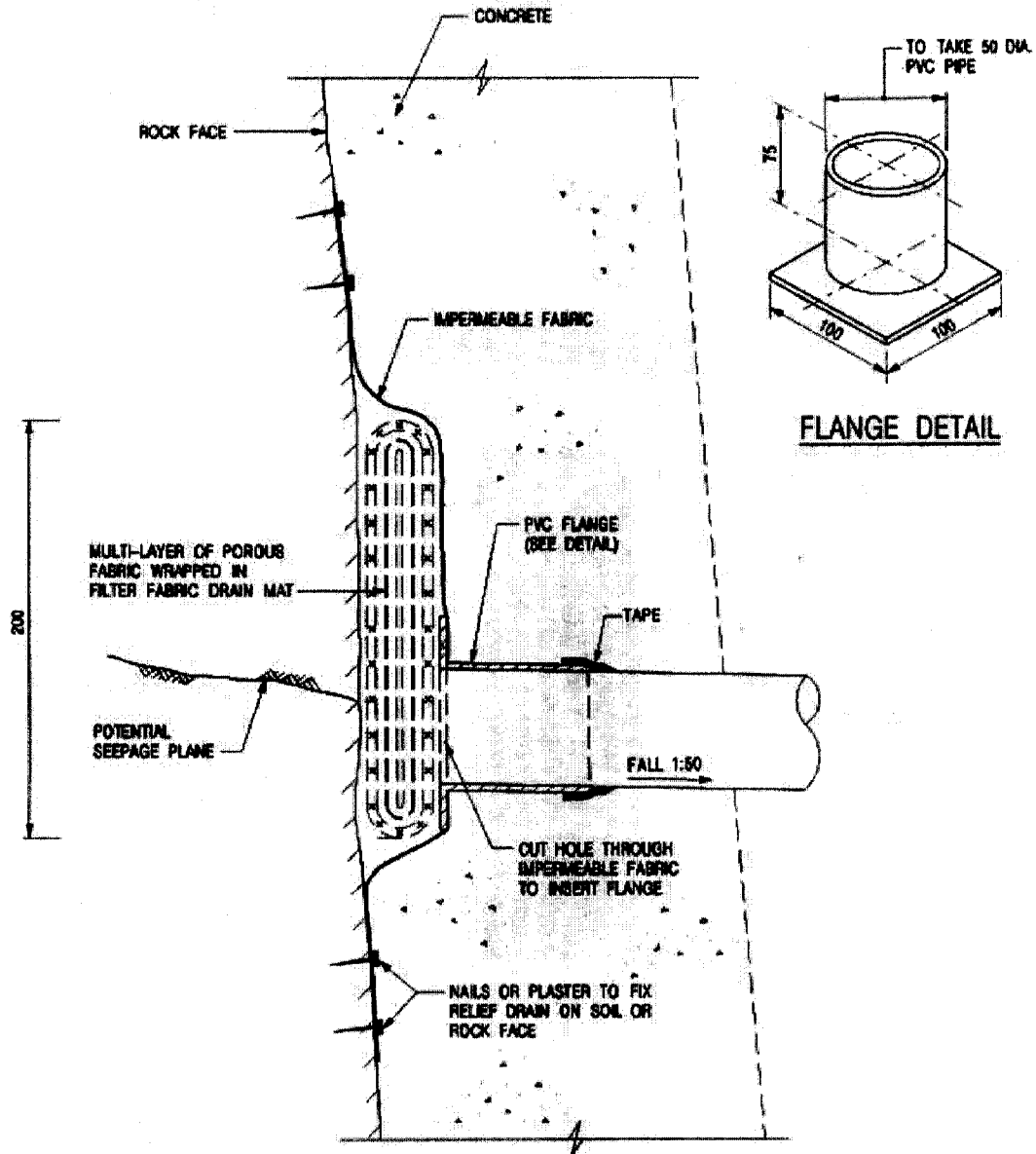
興土木 利民生 齊拓展 創明天

D	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
C	MINOR AMENDMENT.	Original Signed	01.2004
B	GENERAL REVISION.	Original Signed	12.2002
REF.	REVISION	SIGNATURE	DATE

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC DRAWING NO. C2403D
 DATE JAN 1991

We bring the best engineering to life



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SPECIFICATIONS OF FILTER FABRIC:
 - a) MATERIAL = POLYETHYLENE
 - b) WIDTH = 200 mm
 - c) THICKNESS = 30 mm
 - d) MIN. COEFFICIENT OF PERMEABILITY AT 200 kPa = 5×10^{-3} m/s

C	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
B	SPECIFICATIONS ADDED.	Original Signed	12.2001
A	MINOR AMENDMENT.	Original Signed	3.94
REF.	REVISION	SIGNATURE	DATE

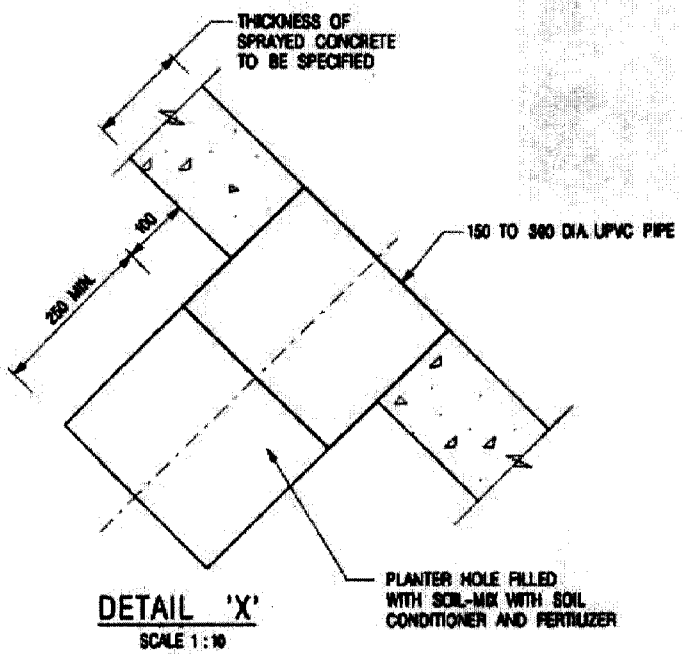
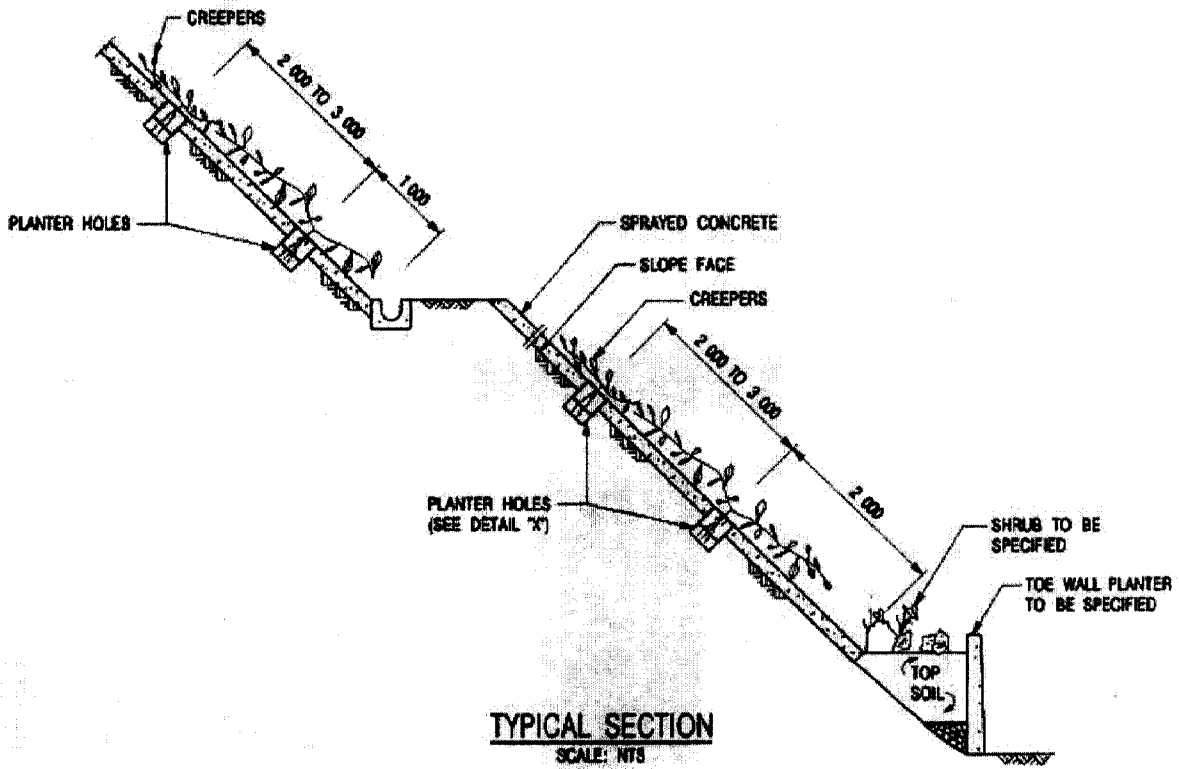
RELIEF DRAIN DETAILS



CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC
DATE JAN 1991

DRAWING NO.
C2404C



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE ENGINEER SHALL SPECIFY THE SPECIES OF CREEPERS.
3. SPECIFICATIONS FOR THE SOIL-MIX, SOIL CONDITIONER AND FERTILIZER ARE GIVEN IN SECTION 3 OF THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS.
4. THE ENGINEER SHALL SPECIFY THE SPACING AND DIAMETER OF THE PLANTER HOLES. TYPICAL SPACING OF THE PLANTER HOLE IS 2 000 TO 3 000 STAGGERED, AND TYPICAL DIAMETER OF THE UPVC PIPE IS 150 TO 300.

A	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
-	NEW ISSUE.	Original Signed	12.2002
REF.	REVISION	SIGNATURE	DATE

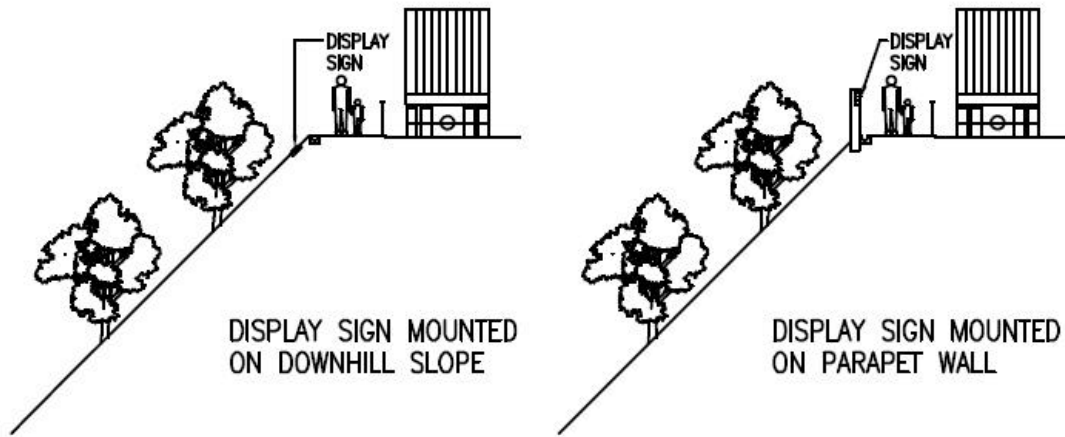
**PLANTER HOLE FOR
SPRAYED CONCRETE SLOPE**



**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

**SCALE AS SHOWN
DATE DEC 2002**

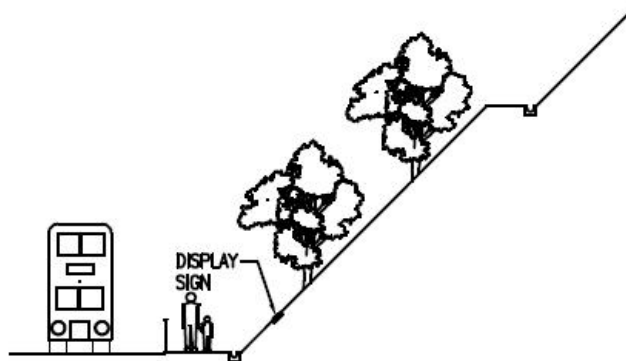
**DRAWING NO.
C2507A**



DISPLAY SIGN MOUNTED ON DOWNHILL SLOPE

DISPLAY SIGN MOUNTED ON PARAPET WALL

MOUNTING FOR SLOPE ON DOWNHILL SIDE

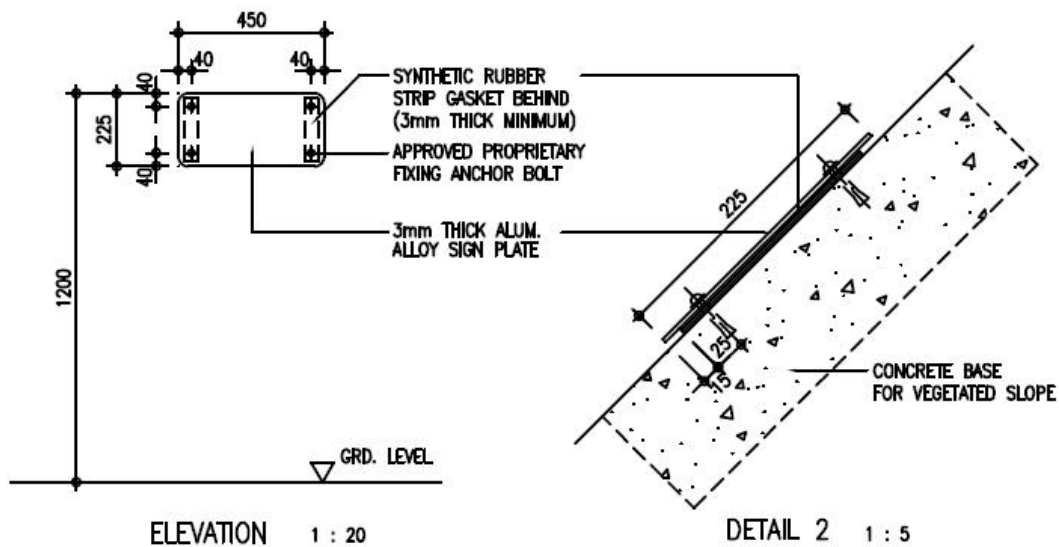
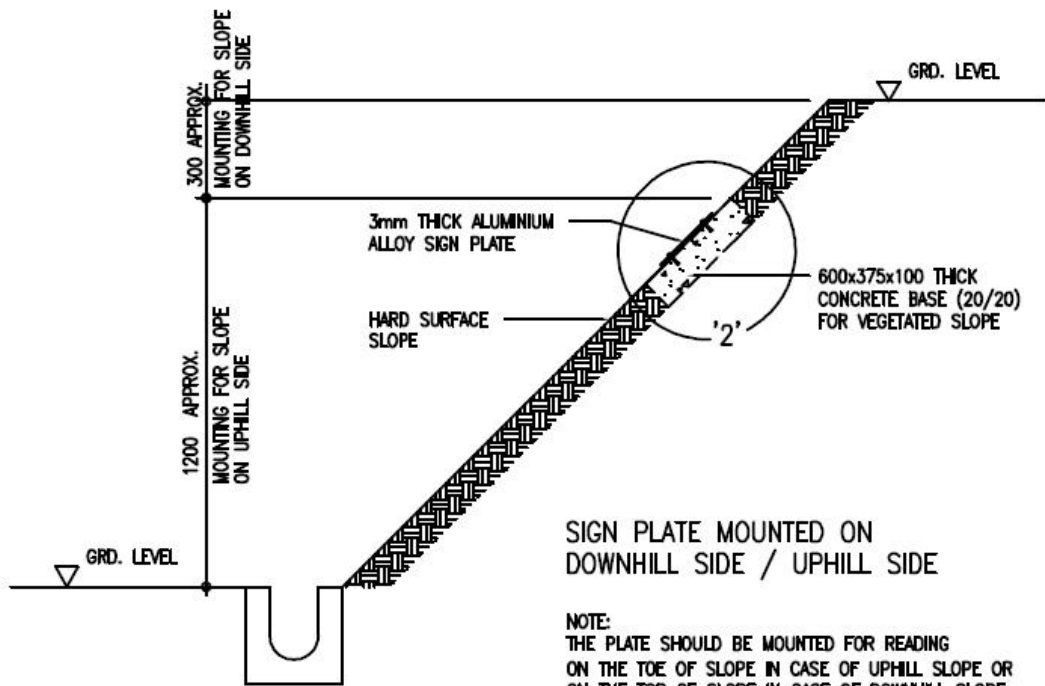


MOUNTING FOR SLOPE ON UPHILL SIDE

NOTES:

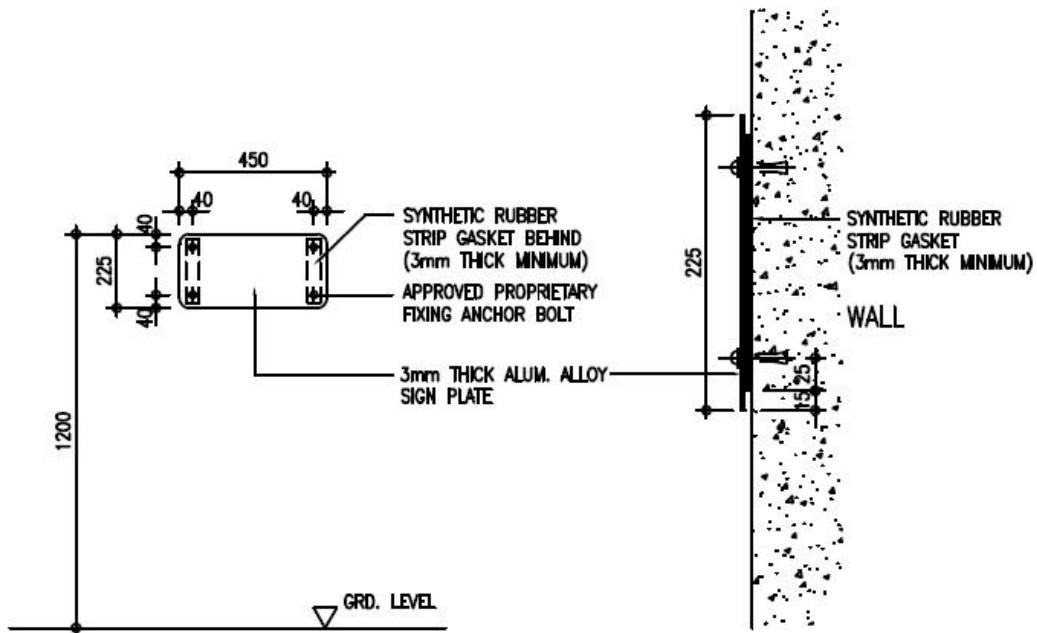
- WORKS BUREAU TECHNICAL CIRCULAR NO. 10/2000 SHOULD BE FOLLOWED FOR DISPLAY OF SLOPE REGISTRATION NUMBER.
- FOR EACH REGISTRATION FEATURE, ONE SIGN PLATE IS TO BE PROVIDED. FOR FEATURES ADJOINING EACH OTHER, GROUPING OF THEIR REGISTRATION NUMBERS INTO ONE SIGN PLATE SHOULD BE CONSIDERED. SIGN PLATE SHOULD NOT BE ERECTED ON POSTS WHERE THIS CAN BE AVOIDED.

CHECKED CA/3	<i>D. Green</i>	DATE 20/11/2000	APPROVED AD(PS)	<i>[Signature]</i>	DATE 20/11/2000
ARCHITECTURAL BRANCH ARCL. SERVICES DEPT.		title DISPLAY SIGN FOR MAN-MADE SLOPES/ RETAINING WALLS (1 OF 5)		scale 1:200	drawing no. 7116_01 (09/00)



SIGN PLATE MOUNTED ON SLOPE

CHECKED CA/3	<i>E. Ghera</i>	DATE 20/11/2000	APPROVED AD(PS)	<i>[Signature]</i>	DATE 20 11 2000
ARCHITECTURAL BRANCH ARCE. SERVICES DEPT.	title DISPLAY SIGN FOR MAN-MADE SLOPES/ RETAINING WALLS (2 OF 5)	scale AS SHOWN	drawing no. 7116_02 (09/00)		

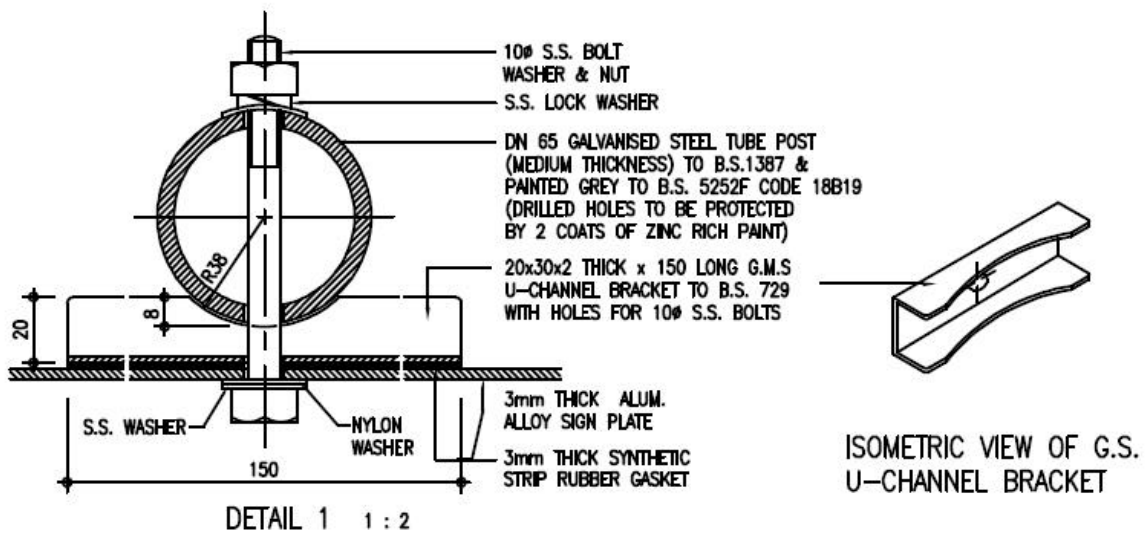
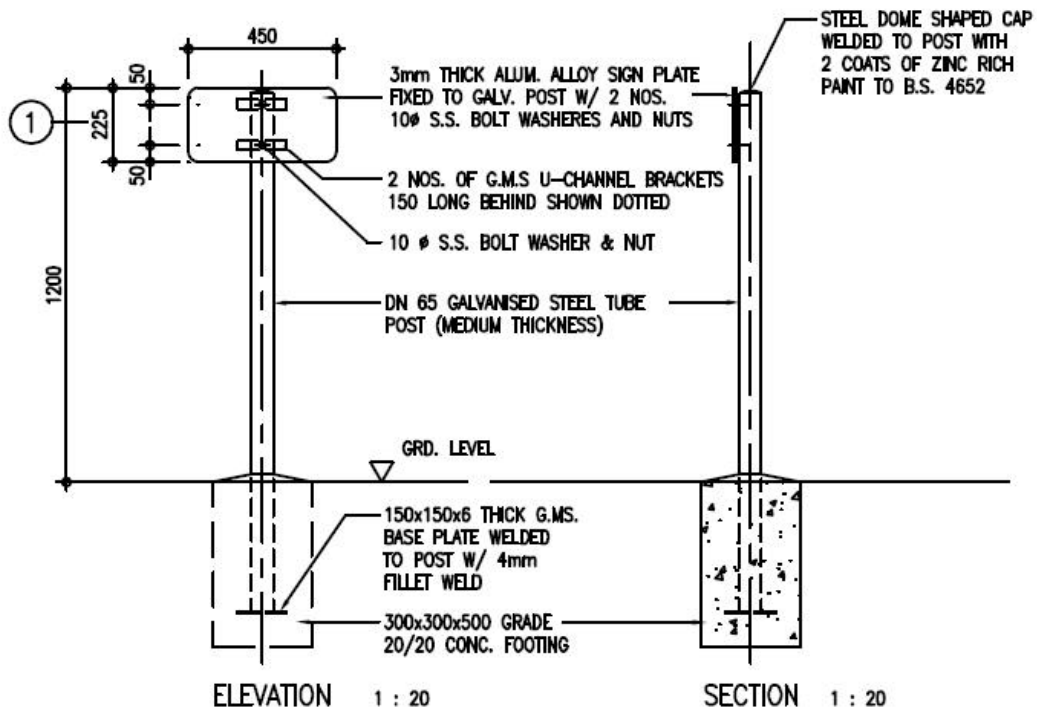


ELEVATION 1 : 20

SECTION 1 : 5

SIGN PLATE MOUNTED ON WALL

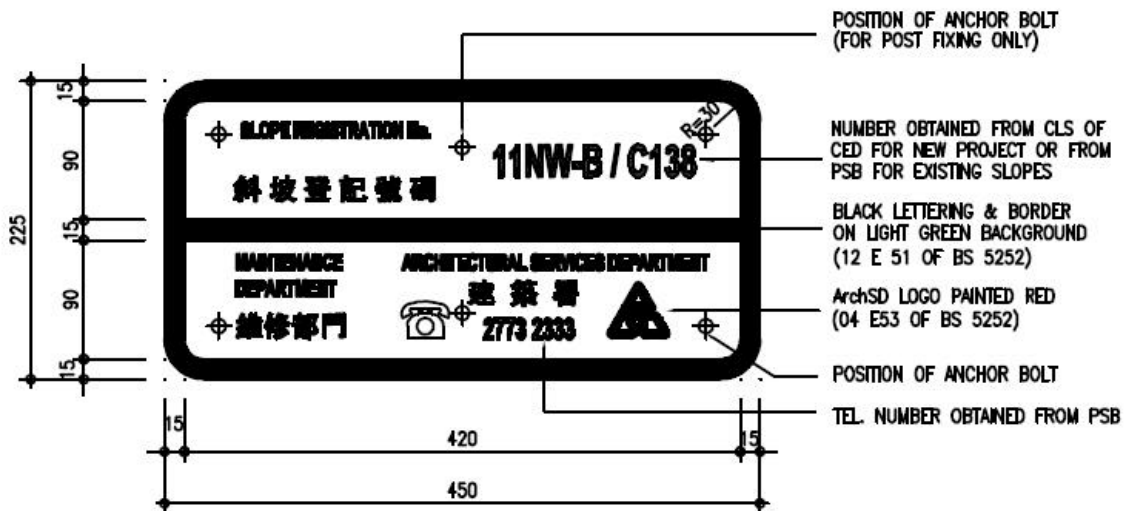
CHECKED CA/3 <i>D. Gnan.</i>	DATE 20/11/2000	APPROVED AD(PS) <i>[Signature]</i>	DATE 20 11 2000
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title DISPLAY SIGN FOR MAN-MADE SLOPES/ RETAINING WALLS (3 OF 5)		scale AS SHOWN drawing no. 7116_03 (09/00)



SIGN PLATE MOUNTED ON POST

* SIGN PLATE SHOULD BE MOUNTED ON POST ONLY IF UNAVOIDABLE.

CHECKED CA/3 <i>D. Gnan.</i>	DATE 20/11/2000	APPROVED AD(PS) <i>[Signature]</i>	DATE 20 11 2000
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title DISPLAY SIGN FOR MAN-MADE SLOPES/ RETAINING WALLS (4 OF 5)	scale AS SHOWN	drawing no. 7116_04 (09/00)



SIGN PLATE FOR SLOPES / RETAINING WALLS

NOTES:

- WORKS BUREAU TECHNICAL CIRCULAR No. 10/2000 SHOULD BE FOLLOWED FOR DISPLAY OF MAN-MADE SLOPES/RETAINING WALLS REGISTRATION NUMBERS.
- SIGN PLATE SHALL BE CUT FROM 3mm THICK ALUMINIUM ALLOY PLATE.
- PAINTING TO FACES FOR SIGN PLATES SHALL COMPLY WITH THE REQUIREMENTS GIVEN IN CLAUSE 12.15 OF THE GENERAL SPECIFICATION FOR CML ENGINEERING WORKS (1992 EDITION) AS FOLLOWS:
 1. FACES OF SIGNS TO WHICH A PAINTED OR STOVED FINISH IS TO BE APPLIED SHALL BE THOROUGHLY CLEANED AND PRE-TREATED BEFORE PAINTING AND STOVING.
 2. PRE-TREATMENT SHALL BE BY ANODISING OR BY USING AN ETCHING PRIMER OR BY A PROCESS APPROVED BY THE ARCHITECT.
 3. AT LEAST ONE UNDERCOAT AND AT LEAST ONE FINISHING COAT OF PAINT SHALL BE APPLIED AND STOVED TO A THICKNESS OF BETWEEN 0.0315 mm AND 0.0375 mm OF ENAMEL OVER A MINIMUM THICKNESS OF 0.025 mm OF PRIMER. IF LIGHT COLOURS ARE TO BE APPLIED OVER DARK COLOURS, AT LEAST TWO COATS OF THE LIGHT COLOUR SHALL BE APPLIED. THE FINAL SURFACE SHALL HAVE A UNIFORM THICKNESS AND AN EGG-SHELL FLAT FINISH AND SHALL BE SMOOTH AND FREE FROM DEFECTS.
 4. THE COLOURS OF THE FINISHED COATING SHALL BE UNIFORM.
 5. PARTS OF FACES COLOURED BLACK SHALL BE NON-RETROREFLECTIVE AND SHALL HAVE A LUMINANCE FACTOR NOT EXCEEDING 0.05 AS MEASURED IN ACCORDANCE WITH BS 873:PART 6.

CHECKED CA/3	<i>E. Givan</i>	DATE 20/11/2000	APPROVED AD(PS)	<i>[Signature]</i>	DATE 20 11 2000
ARCHITECTURAL BRANCH ARCH. SERVICES DEPT.	title DISPLAY SIGN FOR MAN-MADE SLOPES/ RETAINING WALLS (5 OF 5)			scale 1 : 5	drawing no. 7116_05 (09/00)

Section 26

SITE SAFETY

SPECIAL CONDITIONS

- Particular Preamble**
- I. Pre-priced contract rates appearing in this Section shall be deemed to allow for the value of work in connection with meeting all statutory and contractual obligations in the upkeep of safety and health in the execution of the Works and any other related obligations, liabilities, risks and profit. In the event that the rates have been insufficient or where there are any aspects where the methods of measurement provided hereunder do not measure any item or exclude the measurement of any item or part thereof, the difference in value shall be deemed to have been included in other contract rates.

SAFETY PLAN

Complete Draft Safety Plan

- Measurement of “complete draft Safety Plan”**
- II. The item for “complete draft Safety Plan” shall be measured when the draft Safety Plan has been submitted and the content is in order.
- Rates for “complete draft Safety Plan”**
- III. The rates for “complete draft Safety Plan” shall include for : -
- (a) Prepare and complete the draft Safety Plan incorporating the details required by the Contract.
 - (b) Submit the draft Safety Plan to the Maintenance Surveyor.
 - (c) Attend ad hoc meetings with the Maintenance Surveyor to discuss the draft Safety Plan.

Complete Safety Plan

- Measurement of “complete Safety Plan”**
- IV. The item for “complete Safety Plan” shall be measured when the Maintenance Surveyor is satisfied that the Safety Plan has been completed and it meets all requirements of the Contract at the time of its completion and copies distributed.
- Rates for “complete Safety Plan”**
- V. The rates for “complete Safety Plan” shall include for : -
- (a) Develop and complete the Safety Plan based on the draft Safety Plan and taking into account comments given by the Maintenance Surveyor or any other parties.
 - (b) Distribute the Safety Plan to all relevant parties.

Updating of Safety Plan

- Measurement of “updating of Safety Plan”**
- VI. The item for “updating of Safety Plan” shall be measured for the period of time commencing from the completion of the Safety Plan until the date of substantial completion of the last Works Order or an earlier or later date notified by the Maintenance Surveyor.
- No measurement shall be made for the “updating of Safety Plan” for any period of time in which the Contractor fails to discharge any of its contractual obligations in respect of reviewing, revising updating the Safety Plan.
- Rates for “updating of Safety Plan”**
- VII. The rates for “updating of Safety Plan” shall include for : -
- (a) Review, update and revise the Safety Plan taking also into account of comments made on the Safety Plan by the Maintenance Surveyor and any other parties.
 - (b) Update risk assessment for the work scheduled at least for the next two months.
 - (c) Review and establish safety and health provisions, safe working procedures and method statements.
 - (d) Update emergency and rescue procedures.
 - (e) Distribute the revisions of the Safety Plan to all relevant parties.

SPECIAL CONDITIONS (CONT'D)**PROVIDE SAFETY OFFICER**Provide Safety Officer

- VIII. The item for “provide Safety Officer” shall commence from the date of appointment of the Safety Officer as approved by the Maintenance Surveyor or the date on which the Safety Officer commences his duty on the Site whichever is the later. **Measurement of “provide Safety Officer”**

No measurement shall be made for any Safety Officer employed by the Contractor over and above the minimum number of Safety Officers required under the Particular Specification for Site Safety.

No measurement shall be made after the date of substantial completion of the last Works Order or an earlier or later date notified by the Maintenance Surveyor.

No measurement shall be made for any period of time in which the Safety Officer fails to discharge any of his duties.

- IX. The rates for “provide Safety Officer” shall include for : - **Rates for “provide Safety Officer”**
- (a) Submission to the Maintenance Surveyor for approval of the qualifications and experience of the proposed Safety Officer.
 - (b) Provision of sufficient number of Safety Officers in accordance with the Particular Specification for Site Safety and supporting staff to the Safety Officer.
 - (c) Performance of all duties of the Safety Officer.
 - (d) Maintenance of the safety diary.

SITE SAFETY AND ENVIRONMENTAL COMMITTEE AND SITE SAFETY AND ENVIRONMENTAL MANAGEMENT COMMITTEEAttend Site Safety and Environmental Committee

- X. The measurement shall commence from the date of the first meeting of the Site Safety and Environmental Committee until the substantial completion of the last Works Order or an earlier or later date notified by the Maintenance Surveyor. **Measurement of “attend Site Safety and Environmental Committee”**

No measurement shall be made for any month in which the Contractor fails to hold or attend any such Committee meeting in accordance with the Contract or fails to deal with any of the matters associated with such Committee in a satisfactory manner.

- XI. The rates for “attend Site Safety and Environmental Committee” shall include for : - **Rates for “attend Site Safety and Environmental Committee”**
- (a) Establish the Site Safety and Environmental Committee.
 - (b) Arrange and give adequate notice to relevant parties of the Site Safety and Environmental Committee meeting to be held for that month.
 - (c) Attend at Site Safety and Environmental Committee meetings.
 - (d) Completion and distribution of minutes of meetings.

SPECIAL CONDITIONS (CONT'D)Attend Site Safety and Environmental Management Committee

Measurement of “attend Site Safety and Environmental Management Committee”

- XII. The measurement shall commence from the date of the first meeting of the Site Safety and Environmental Management Committee until the substantial completion of the last Works Order or an earlier or later date notified by the Maintenance Surveyor.
- No measurement shall be made for any month in which the Contractor fails to hold or attend any such Committee meeting in accordance with the Contract or fails to deal with any of the matters associated with such Committee in a satisfactory manner.

Rates for “attend Site Safety and Environmental Management Committee”

- XIII. The rates for “attend Site Safety and Environmental Management Committee” shall include for : -
- (a) Attend Site Safety and Environmental Management Committee meetings and complete the agenda of the meetings.
 - (b) Arrange inspection of the Site by members of the Site Safety and Environmental Management Committee before meetings.
 - (c) Provide necessary assistance for the proper functioning of the Site Safety and Environmental Management Committee.
 - (d) Submission of a monthly safety report for consideration at the meeting.

ARRANGE AND ATTEND WEEKLY SAFETY WALKArrange and Attend Weekly Safety Walk

Measurement of “arrange and attend weekly safety walk”

- XIV. Only those safety walks conducted in accordance with Particular Specification for Site Safety during the period between the date for the commencement of the Works and the date of substantial completion of the last Works Order or an earlier or later date notified by the Maintenance Surveyor shall be measured.
- No measurement shall be made for the weekly safety walk when any one of the following events occurs during that week : -
- (i) Any Suspension Notice has been issued by the Labour Department pursuant to the Occupational Safety and Health Ordinance in respect of any activities on the Site until the notice has been revoked or the operation of that notice is suspended.
 - (ii) The Maintenance Surveyor has suspended the progress of the Works or any part thereof due to any reason caused by any default on the part of the Contractor in failing to ensure safety and health.
 - (iii) The Maintenance Surveyor has given written notification to the Contractor requiring the Contractor to rectify any failure in the proper and full implementation of the Safety Plan and the Contractor has failed to rectify within a reasonable time.

SPECIAL CONDITIONS (CONT'D)Arrange and Attend Weekly Safety Walk (Cont'd)

- XV. The rates for “arrange and attend weekly safety walk” shall include for : -
- (a) Arranging and giving adequate notice to relevant parties of the safety walk.
 - (b) Using a comprehensive checklist during the walk to identify and record, and subsequently rectifying any deficiencies noted in the safety provisions.
 - (c) Preparing reports on safety walks and safety inspections conducted.
 - (d) Implementing and upkeeping all measures stipulated in the Safety Plan and maintaining the effectiveness of all such provisions for the duration of the Contract.
 - (e) Safety inspections including, but not be limited to : -
 - (i) scaffolding;
 - (ii) temporary electrical supply; and
 - (iii) site cleanliness;
 - (f) Implementing the decisions and recommendations made by the Site Safety and Environmental Management Committee on matters of safety and health.

**Rates for
“arrange and
attend weekly
safety walk”**

PROVIDE SAFETY TRAININGProvide Trade Specific Advanced Safety Training to Skilled Workers

- XVI. The item for “provide trade specific advanced safety training to skilled workers” shall be paid on a per worker basis subject to the production of a “Silver Card” issued by the Construction Industry Training Authority as evidence in accordance with Particular Specification for Site Safety. Payment shall only be made for attending the second day of the two-day trade specific advanced safety training course. No payment will be made if the second day of the course is attended : -
- (a) before the skilled worker starts works on Site; or
 - (b) after the skilled worker has left the Site.

**Measurement
of “provide
trade specific
advanced safety
training to
skilled workers”**

- XVII. The rates for “provide trade specific advanced safety training to skilled workers” shall include for : -
- (a) Arranging skilled workers to attend the “Silver Card” training course organised by the Construction Industry Training Authority or any other recognised courses notified by the Maintenance Surveyor.
 - (b) Payment of the token allowance to skilled workers.
 - (c) Preparation of training programme and records, and submission of certified monthly statements to the Maintenance Surveyor.
 - (d) Administration in connection with (a), (b) and (c) above.

**Rates for
“provide trade
specific advanced
safety training to
skilled workers”**

Provide Site Specific Safety Induction Training

- XVIII. The item for “provide Site specific safety induction training” shall be measured on a per person per talk basis. Refresher talks required by the Contract shall also be measured.

Adjustment to payment or no payment will be made to the item for “provide site specific safety induction training” if the Maintenance Surveyor is dissatisfied with the frequency, arrangements, numbers certified, relevance or quality of such training and the Contractor cannot provide any justification acceptable to the Maintenance Surveyor.

**Measurement
of “provide
Site specific
safety induction
training”**

SPECIAL CONDITIONS (CONT'D)

Provide Site Specific Safety Induction Training (Cont'd)

**Rates for
“provide Site
specific safety
induction training”**

- XIX. The rates for “provide Site specific safety induction training” shall include for : -
- (a) Site specific safety induction talks conducted in accordance with Particular Specification for Site Safety.
 - (b) The necessary facilities, trainers and demonstration equipment for compliance with (a) above.
 - (c) Preparation of the training programme and records, submission of certified monthly statements to the Maintenance Surveyor.
 - (d) Administration in connection with (a), (b) and (c) above.

Provide Tool Box Talks

**Measurement of
“provide tool
box talks”**

- XX. The item for “provide tool box talks” shall be measured on a per worker per talk basis on a frequency of one talk per worker every two weeks in accordance with Particular Specification for Site Safety. Adjustment to payment or no payment to be made to the item for “provide tool box talks” if the Maintenance Surveyor is dissatisfied with the frequency, arrangements, numbers certified, relevance or quality of such talks and the Contractor cannot provide any justification acceptable to the Maintenance Surveyor.

**Rates for
“provide tool
box talks”**

- XXI. The rates for “provide tool box talks” shall include for : -
- (a) Tool box talks conducted in accordance with Particular Specification for Site Safety.
 - (b) The necessary training of Safety Supervisors, foremen or gangers to conduct tool box talks.
 - (c) Basing such talks on training kits published by the Hong Kong Construction Association Ltd. or other training kits of comparable standard approved by the Maintenance Surveyor.
 - (d) Preparation of training programme and records, and submission of certified monthly statements to the Maintenance Surveyor.
 - (e) Administration in connection with (a), (b), (c) and (d) above.

SPECIAL CONDITIONS (CONT'D)

INDEPENDENT SAFETY AUDIT

- | | | |
|--------|--|--|
| XXII. | Payment on the items for “attendance on Safety Auditor” and “Safety Audit” will only be paid when the requirement for “Independent Safety Audit” is specifically stated in the Contract. | Payment |
| | <u>Attendance on Safety Auditor</u> | |
| XXIII. | The unit of measurement of “attendance on Safety Auditor” shall be in number of Safety Audits completed based on criteria in Clause XXIV below. | Measurement of
“attendance on
Safety Auditor” |
| XXIV. | The rates for “attendance on Safety Auditor” shall include for : - | Rates for
“attendance on
Safety Auditor” |
| | (a) Providing all necessary facilities and assistance to the Safety Auditor including meeting rooms and transportation between different areas of all Sites for the carrying out of the Safety Audit. | |
| | (b) Providing copies of relevant documents and records. | |
| | (c) Arranging his Site Agent and Safety Officer to attend the Safety Audit. | |
| | (d) Arranging responsible persons to be present for interview by the Safety Auditor and during the Safety Audit. | |
| | (e) Preparing an action plan within 14 days of the receipt of the audit report and submitting one each to the Maintenance Surveyor, the Employer, the Council and the Safety Auditor. | |
| | <u>Safety Audit</u> | |
| XXV. | The unit of measurement of “Safety Audit” shall be in number of Safety Audits which report has indicated that the scores in both Part I - the Contractor's safety management system and Part II - the implementation of the Safety Plan on Site are 70% or above. No measurement shall be made if either one of the scores is below 70%. | Measurement of
“Safety Audit” |
| XXVI. | The rates for “Safety Audit” shall include for : - | Rates for
“Safety Audit” |
| | (a) The setting up of a satisfactory safety management system. | |
| | (b) The satisfactory implementation of the Safety Plan on Site. | |

Item	SCHEDULE FOR PAY FOR SAFETY SCHEME / INDEPENDENT AUDIT SAFETY SCHEME	A \$	Item
	(Based on an estimated annual expenditure of \$100 million for a period of 3 years)		
	Note : - The sums set out in this section will only be paid for, if ordered by the Maintenance Surveyor in writing and demonstrated compliance with the Particular Specification for Site Safety by the Contractor for these items.		
	<i>Per item</i>		
26001	Complete draft Safety Plan.....	20,000.00	26001
26002	Complete Safety Plan.....	30,000.00	26002
	<i>Per month</i>		
26003	Updating of Safety Plan.....	3,000.00	26003
	<i>Per number-month</i>		
26004	Provide Safety Officer.....	12,000.00	26004
	<i>Per month</i>		
26005	Attend Site Safety and Environmental Management Committee.....	3,000.00	26005
26006	Attend Site Safety and Environmental Committee.....	3,000.00	26006
	<i>Per number-week</i>		
26007	Arrange and attend weekly safety walk.....	6,750.00	26007
	<i>Per number</i>		
26008	Provide trade specific advanced safety training to skilled workers.....	650.00	26008
26009	Provide site specific induction training.....	100.00	26009
26010	Provide tool box talks.....	30.00	26010
26011	Safety Audit.....	60,000.00	26011
26012	Attendance on Safety Auditor.....	2,000.00	26012

Section 51

SITE CLEANLINESS AND TIDINESS

SITE CLEANLINESS AND TIDINESS

SPECIAL CONDITIONS

- Particular Preamble**
- I. Rates appearing in this Section shall be deemed to allow for the value of work in connection with meeting all statutory and contractual obligations in the upkeeping of site cleanliness and tidiness in the execution of the Works and any other related obligations, liabilities, risks and profit. In the event that the rates have been insufficient or where there are any aspects where the methods of measurement provided hereunder do not measure any item or exclude the measurement of any item or part thereof, the difference in value shall be deemed to have been included in other contract rates.
- Measurement of "Daily cleaning"**
- II. The measurement of "Daily cleaning" shall be made after cleaning and tidying up work of the Site for a Works Order for a Cleaning Day is carried out satisfactorily in accordance with Clause 1(c) "Daily Cleaning" of Particular Specification for Daily Cleaning and Weekly Tidying. The measurement of this item for a Cleaning Day shall be the area of the Public Cleaning Areas in a Works Order for that Cleaning Day. The Daily cleaning for the areas of the Site other than the Public Cleaning Areas shall be deemed to be included in the rates of other items of work for such Works Order and shall not be measured for payment.
- The extent of the Public Cleaning Areas required for cleaning shall be determined by the Maintenance Surveyor's Representative for each Works Order.
- The Contractor shall not be entitled to any payment for the item for "Daily cleaning" for a Works Order on a Cleaning Day if the performance of the Contractor on cleanliness and tidiness for any part of the Site including areas other than the Public Cleaning Areas of such Works Order for that Cleaning Day is not carried out to the satisfaction of the Maintenance Surveyor's Representative. For the avoidance of doubt, the measurement for "Daily cleaning" for each Works Order on a Cleaning Day shall be either in full or none.
- The Contractor shall not be entitled to any payment for the item for "Daily cleaning" for more than one day for the cleaning and tidying up work carried out by the Contractor in one Cleaning Day.
- Rates for "Daily cleaning"**
- III. The item for "Daily cleaning" shall include for :
- (a) Daily cleaning on each Cleaning Day.
 - (b) Development of inspection checklist for the daily cleaning, and its revision.
 - (c) Assignment of person responsible for the inspection and checking after the daily cleaning has been carried out on the Site.
 - (d) Completion of the inspection checklist and preparation of records and photographs for checking by the Maintenance Surveyor's Representative.
 - (e) Inspection of the Site before any work commences to clear any rubbish and debris that may be littered by the public.

SPECIAL CONDITIONS

- IV. The measurement of “Weekly tidying” shall be made after the overall cleaning and tidying up work of the Site of a Works Order for a Cleaning Week Day is carried out satisfactorily in accordance with Clause 1(d) “Weekly Tidying” of Particular Specification for Daily Cleaning and Weekly Tidying. The measurement of this item for a satisfactory completed Cleaning Week Day shall be the area of the Public Cleaning Areas in a Works Order for that Cleaning Week Day. The Weekly tidying for the areas of the Site other than the Public Cleaning Areas shall be deemed to be included in the rates of other items of work for such Works Order and shall not be measured for payment.

**Measurement of
“Weekly tidying”**

The extent of the Public Cleaning Areas required for weekly tidying is identical to those defined for daily cleaning given in Clause II above.

The Contractor shall not be entitled to any payment for the item for “Weekly tidying” for a Works Order on a Cleaning Week Day if the Contractor fails to rectify the identified defects pursuant to Clause V(e) below to the satisfaction of the Maintenance Surveyor's Representative before the end of the day (which is not a General Holiday) following the Cleaning Week Day. For the avoidance of doubt, the measurement for “Weekly tidying” for each Works Order on a Cleaning Week Day shall be either in full or none.

The Contractor shall not be entitled to any payment for the item for “Weekly tidying” for more than one day for the cleaning and tidying up work and/or defects rectification carried out by the Contractor in one Cleaning Week Day.

- V. The item for “Weekly tidying” shall include for : -

**Rates for
“Weekly tidying”**

- (a) Weekly tidying of the Site on the Cleaning Week Day.
- (b) Development of inspection checklist for weekly tidying, and its revision.
- (c) Assignment of person responsible for the inspection and checking after the weekly tidying has been carried out on the Site.
- (d) Completion of the inspection checklist and preparation of records and photographs for checking by the Maintenance Surveyor's Representative.
- (e) Rectification of defects identified by the assigned person as referred to in sub-clause (c) above and/or the Maintenance Surveyor's Representative.
- (f) Inspection of the Site before any work commences to clear any rubbish and debris that may be littered by the public.

Item	SCHEDULE FOR PAY FOR SITE CLEANLINESS AND TIDINESS		Item
	Note : - The sums set out in this section will only be paid for, if ordered by the Maintenance Surveyor in writing and demonstrated compliance with the Particular Specification for Site Cleanliness and Tidiness by the Contractor for these items.	A \$	
	<i>Per m²- day</i>		
51001	Daily cleaning.....	0.30	51001
51002	Weekly tidying.....	0.50	51002

Section 52

TRIP TICKET SYSTEM MANAGEMENT

TRIP TICKET SYSTEM MANAGEMENT

SPECIAL CONDITIONS

- | | |
|---|---|
| Particular Preamble | I. Rates appearing in this Section shall be deemed to allow for the value of work in connection with meeting all statutory and contractual obligations in ensuring proper disposal of construction and demolition materials generated from the Site to designated disposal ground under the Contract or other disposal grounds approved or as directed by the Maintenance Surveyor, and any other related obligations, liabilities, risks and profit. In the event that the rates are insufficient or where there are any aspects where the methods provided hereunder do not measure any item or exclude the measurement of any item or part thereof, the difference in value shall be deemed to have been included in the rates inserted elsewhere in the Contract. |
| Measurement of Trip Ticket System Management | <p>II. The item for “complete site management plan for trip ticket system” shall be measured once for the whole Contract when the Maintenance Surveyor approves the site management plan.</p> <p>III. The measurement of the “implementation of site management plan for trip ticket system” shall be the period of time commencing from the date of approval by the Maintenance Surveyor of the site management plan until all construction and demolition materials have been removed from the Site, or an earlier or later date notified by the Maintenance Surveyor. This item is measured for the whole Contract.</p> <p>IV. No measurement shall be made for the “implementation of site management plan for trip ticket system” for any month during which there is any incident of improper disposal or major improper disposal as defined in Clauses 16 and 17 of the Particular Specification for Trip Ticket System Management, or late submission of the records as required in Clause 10 of the Particular Specification for Trip Ticket System Management, or there is no disposal of construction and demolition materials off the Site during the month.</p> |
| Rates for Trip Ticket System Management | <p>V. The item for “complete site management plan for trip ticket system” shall include for : -</p> <ul style="list-style-type: none"> (a) Prepare the site management plan for trip ticket system to the satisfaction of the Maintenance Surveyor. (b) Distribute or inform all relevant parties details of the site management plan for trip ticket system. (c) Inform truck drivers engaged in the disposal of construction and demolition materials the requirements under the trip ticket system. <p>VI. The item for the “Implementation of site management plan for trip ticket system” shall include for : -</p> <ul style="list-style-type: none"> (a) Review, update and revise the site management plan for trip ticket system taking into account the comments made by the Maintenance Surveyor or any other parties. (b) Assign staff and necessary facilities/equipment for overseeing and implementation of site management plan for trip ticket system. (c) Implement measures to ensure that trucks carrying construction and demolition materials from the Site proceed to the designated disposal grounds. (d) Devise and implement appropriate measures to ensure that the sorted recyclable materials, which are sorted on the Site for the purpose of recycling such materials, are delivered to a proper recycling outlet for processing. (e) Compile, submit and maintain disposal records. |

SPECIAL CONDITIONS (CONT'D)

VI.	(f)	Investigate and report on incidents of improper disposal and non-compliance with the trip ticket system.	Rates for Trip Ticket System Management (cont'd)
	(g)	Monitor performance of trip ticket system and implement improvement measures.	
	(h)	Implement additional measures to control disposal of construction and demolition materials to alternative disposal ground which the Maintenance Surveyor has approved.	
	(i)	Distribute revisions of the site management plan for trip ticket system to all relevant parties including the truck drivers engaged in delivery of construction and demolition materials for disposal.	
	(j)	Other requirements for implementation of the trip ticket system as stipulated in Clauses 5 and 10 to 14 of the Particular Specification for Trip Ticket System Management.	

Item	SCHEDULE FOR PAY FOR TRIP TICKET SYSTEM MANAGEMENT	Item
	<i>Per item</i>	
52001	Complete Site Management Plan.....	52001
	<i>Per month</i>	
52002	Implementation of Site Management Plan.....	52002

A
\$
10,000.00
1,000.00

Section 53

PRESERVATION OF OLD AND VALUABLE TREES

PRESERVATION AND PROTECTION OF PRESERVED TREES INCLUDING OLD AND VALUABLE TREES

SPECIAL CONDITIONS

- | | |
|---|---|
| Particular Preamble | <p>I. The items in this Section are applicable to existing trees which are to be preserved and protected including Old and Valuable Trees (hereinafter referred to as "OVT") from the register at the website : http://www.lcsd.gov.hk/LEISURE/LP/gc/tree</p> |
| Measurement of preservation and protection of preserved trees including Old and Valuable Trees | <p style="text-align: center;"><u>PRESERVATION AND PROTECTION OF PRESERVED TREES INCLUDING OLD AND VALUABLE TREES</u></p> <p>II. The measurement for the items for the "preservation and protection measures for Old and Valuable Trees" shall be the duration in which preservation and protection measures for OVT are provided in accordance with the requirements of the Works Order. One item shall be measured for each OVT.</p> <p>III. The measurement for the item for the "preservation and protection measures for preserved trees other than Old and Valuable Trees" shall be the duration in which preservation and protection measures for preserved trees other than OVT are provided in accordance with the requirements of the Works Order. One item shall be measured for each tree.</p> |
| Rates for preservation and protection of preserved trees including Old and Valuable Trees | <p>IV. The rates for "preservation and protection measures for Old and Valuable Trees" shall include for :-</p> <p>(a) All works, materials and services for preservation and protection for OVT in accordance with the Works Order.</p> <p>(b) Provision, installation, securing, maintenance, reinstatement and removal of identification, labelling or marking system for OVT in accordance with sub-clause (3) of the section for the "preservation and protection of existing trees" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(c) Provision, installation, securing, maintenance, reinstatement and removal of temporary protective fencing/armouring/mulching for OVT in accordance with the section for the "protection from physical damage and soil compaction by construction activities" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(d) Provision, installation, securing, maintenance, reinstatement and removal of physical support measures to protect the OVT from instability in accordance with the section for the "protection from instability" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(e) Provision, installation, securing, maintenance and reinstatement of measures to protect the OVT from reduction in ground level, including construction of retaining wall, precautionary measures during excavation and root cutting, and measures to maintain balanced moisture content after change in ground level, in accordance with sub-clause (2) of the section for the "protection from changes in ground levels" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(f) Provision, installation, securing, maintenance and reinstatement of measures to protect the OVT from rise in ground level, including construction of dry wall and soil aeration system, in accordance with sub-clause (3) of the section for the "protection from changes in ground levels" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(g) Measures to protect the OVT from excavation, including submission of photographic records, precautionary measures during excavation, tunneling of services and root cutting, and measures to maintain balanced moisture content after excavation, in accordance with the section for the "protection from excavation including trenching" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> |

SPECIAL CONDITIONS (CONT'D)

PRESERVATION AND PROTECTION OF PRESERVED TREES INCLUDING OLD AND VALUABLE TREES (Cont'd)

- | | | |
|-----|--|--|
| IV. | <p>(h) Measures to protect the OVT from drilling, including precautionary measures during drilling and root cutting, and measures to maintain balanced moisture content after drilling, in accordance with the section for the “protection from drilling” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(i) Measures to control pest and disease for the OVT, including precautionary measures to prevent pest and disease attack and control measures to eradicate pest and disease from infected trees, in accordance with the section for the “control of pest and disease for preserved trees” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(j) Pruning of the OVT, including pre-pruning preparation, pruning operation, post-pruning treatment, and reinstatement of affected areas, in accordance with the section for the “pruning of preserved trees” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(k) General precautionary measures in accordance with sub-clauses (5)(a) to (5)(g) of the section for the “preservation and protection of existing trees” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees and any other precautionary measures for the preserved trees other than OVT as stated in the Works Order.</p> | <p>Rates for
preservation
and protection
of preserved
trees including
Old and Valuable
Trees (cont'd)</p> |
| V. | <p>The rates for “preservation and protection measures for preserved trees other than Old and Valuable Trees” shall include for : -</p> <p>(a) All works, materials and services for preservation and protection to preserved trees other than OVT in accordance with the Works Order.</p> <p>(b) Provision, installation, securing, maintenance, reinstatement and removal of identification labelling or marking system for preserved trees other than OVT in accordance with sub-clause (3) of the section for the “preservation and protection of existing trees” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(c) Provision, installation, securing, maintenance, reinstatement and removal of temporary protective fencing/armouring/mulching for preserved trees other than OVT in accordance with the section for the “protection from physical damage and soil compaction by construction activities” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(d) Provision, installation, securing, maintenance, reinstatement and removal of physical support measures to protect the preserved trees other than OVT from instability in accordance with the section for the “protection from instability” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(e) Provision, installation, securing, maintenance and reinstatement of measures to protect the preserved trees other than OVT from reduction in ground level, including construction of retaining wall, precautionary measures during excavation and root cutting, and measures to maintain balanced moisture content after change in ground level, in accordance with sub-clause (2) of the section for the “protection from changes in ground levels” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> <p>(f) Provision, installation, securing, maintenance and reinstatement of measures to protect the preserved trees other than OVT from rise in ground level, including construction of dry wall and soil aeration system, in accordance with sub-clause (3) of the section for the “protection from changes in ground levels” in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.</p> | |

SPECIAL CONDITIONS (CONT'D)

PRESERVATION AND PROTECTION OF PRESERVED TREES INCLUDING OLD AND VALUABLE TREES (Cont'd)

Rates for preservation and protection of preserved trees including Old and Valuable Trees (cont'd)

- V. (g) Measures to protect the preserved trees other than OVT from excavation, including submission of photographic records, precautionary measures during excavation, tunnelling of services and root cutting, and measures to maintain balanced moisture content after excavation, in accordance with the section for the "protection from excavation including trenching" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.
- (h) Measures to protect the preserved trees other than OVT from drilling, including precautionary measures during drilling and root cutting, and measures to maintain balanced moisture content after drilling, in accordance with the section for the "protection from drilling" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.
- (i) Measures to control pest and disease for the preserved trees other than OVT, including precautionary measures to prevent pest and disease attack and control measures to eradicate pest and disease from infected trees, in accordance with the section for the "control of pest and disease for preserved trees" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.
- (j) Pruning of the preserved trees other than OVT, including pre-pruning preparation, pruning operation, post-pruning treatment and reinstatement of affected areas, in accordance with the section for the "pruning of preserved trees" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.
- (k) General precautionary measures in accordance with sub-clauses (5)(a) to (5)(g) of the section for the "preservation and protection of existing trees" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees and any other precautionary measures for the preserved trees other than OVT as stated in the Works Order.

TREE SURVEY

Measurement of tree survey

- VI. The item for "tree survey of each existing tree other than Old and Valuable Tree" shall be measured for each tree to be surveyed as required in the Works Order.
- VII. The item for "reports on photographic record of each preserved tree other than Old and Valuable Tree" shall be measured for each tree to be preserved as required in the Works Order.

Rates for tree survey

- VIII. The rates for "tree survey of each existing tree other than Old and Valuable Tree" shall include for : -
- (a) All works, materials and services for undertaking tree survey of existing trees other than OVT in accordance with the Works Order.
- (b) Preparing, amending and submitting to the Maintenance Surveyor the updated survey record of the trees in accordance with sub-clause (1) of the section for the "preservation and protection of existing trees" in Particular Specification for Preservation and Protection of Existing Trees including Old and Valuable Trees.
- (c) Provision and installation of identification labelling or marking system for all existing trees other than OVT earmarked to be felled under the Works Order in accordance sub-clauses (3)(a) to (3)(c) of the section for the "preservation and protection of existing trees" in Particular Specification for Preservation and Protection Existing Trees including Old and Valuable Trees.

SPECIAL CONDITIONS (CONT'D)

TREE SURVEY (Cont'd)

- | | | |
|-----|--|---|
| IX. | The rates for “reports on photographic record of each preserved tree other than Old and Valuable Tree” shall include for : - | Rates for
tree survey
(cont'd) |
| | (a) All works, materials and services for preparation, submission, amendments and updating of reports on photographic record of preserved trees other than OVT in accordance with the Works Order. | |
| | (b) Taking updated photographs of preserved trees other than OVT. | |

INDEPENDENT TREE SPECIALIST

- | | | |
|-----|--|---|
| X. | The measurement for the items for independent tree specialist (hereinafter referred to as ITS) shall be the duration in which the services of an ITS is provided in accordance with the Works Order. | Measurement
of independent
tree specialist |
| XI. | The rates for “ITS” shall include for : - | Rates for
independent
tree specialist |
| | (a) Payment for wages for the ITS. | |
| | (b) Provision of services required from the ITS as stipulated in the Works Order including conducting tree surveys, site surveys and soil tests, submitting reports and providing advice. | |
| | (c) All works, materials and services for employment of the ITS and provision of the services required from the ITS in accordance with the Works Order including payment of all fees and charges, provision of facilities and attendance on the ITS. | |

AFTERCARE TO OLD AND VALUABLE TREES

- | | | |
|-------|--|---|
| XII. | The measurement for the items for “aftercare to Old and Valuable Trees” shall be made to the duration in which all requirements for providing aftercare to OVT as stated in the Works Order are complied with. One item shall be measured for each OVT. | Measurement
of aftercare to
Old and Valuable
Trees |
| XIII. | The rates for “aftercare to Old and Valuable Trees” shall include for : - | Rates for
aftercare to
Old and Valuable
Trees |
| | (a) All works, materials and services for providing aftercare to OVT in accordance with the Works Order. | |
| | (b) Tree maintenance work, work of repair to damage or health deterioration, or precautionary or mitigation measures against damage in accordance with sub-clause (2)(c) of the section for the "aftercare to Old and Valuable Trees" in Particular Specification for Preservation and Protection Existing Trees including Old and Valuable Trees. | |
| | (c) Removal of all debris and surplus materials off the Site. | |
| | (d) Reinstatement of the affected areas. | |

**PRESERVATION AND PROTECTION OF PRESERVED TREES
INCLUDING OLD AND VALUABLE TREES**

Item	A \$	Item
PRESERVATION AND PROTECTION OF PRESERVED TREES INCLUDING OLD AND VALUABLE TREES		
<i>Per month</i>		
53001	2,000.00	53001
53002	2,400.00	53002
53003	50.00	53003
TREE SURVEY		
<i>Per number</i>		
53004	50.00	53004
53005	100.00	53005
INDEPENDENT TREE SPECIALIST		
<i>Per month</i>		
53006	18,000.00	53006
AFTERCARE TO OLD AND VALUABLE TREES		
<i>Per month</i>		
53007	1,000.00	53007

Section 54

**CONTROL TREATMENT ON PESTS,
TERMITES AND RED IMPORTED FIRE ANTS**

CONTROL TREATMENT ON PESTS, TERMITES AND RED IMPORTED FIRE ANTS

SPECIAL CONDITIONS

PART I - CONTROL TREATMENT ON PESTS AND TERMITES**Measurement of pest and termite control**

I. Only the infested areas by pests and termites as directed by the Maintenance Surveyor shall be measured.

Rates for pest and termite control

- II. The rates for pest and termite control shall include for : -
- (a) The application of an appropriate pesticide or insecticide approved by the Agriculture, Fisheries and Conservation Department ("AFCD") or any control treatment methods approved by the Maintenance Surveyor.
 - (b) The employment of a pest control specialist approved by the Maintenance Surveyor.
 - (c) Applying the pesticide or insecticide in strict accordance with the manufacturer's instructions.
- III. The rates for termite treatment shall further include for : -
- (a) Preparing and drilling holes around termite mounds for the injection of the approved pesticide or insecticide .
 - (b) Treatment services on the termite mounds.
 - (c) Collection services of specimens of termites.
 - (d) Eradication and removal of all termites and their queens.

PART II - TREATMENT SERVICES ON RED IMPORTED FIRE ANTS**Particular Preamble**

- IV. A pest control specialist in controlling Red Imported Fire Ants ("RIFA") from the list provided by AFCD shall be employed to provide treatment services for the RIFA including their mounds.
- V. The updated list of the pesticides for RIFA treatment available from AFCD shall be referred when proposing pesticides for approval.

Measurement of treatment services on Red Imported Fire Ants

VI. The items for "maintain and protect all existing planting in the controlling area" shall be measured where treatment services are required to be carried out in planted area.

Rates for treatment services on Red Imported Fire Ants

- VII. The rates for "maintain and protect all existing planting in the controlling area" shall include for the following whenever maintenance or protection is not possible : -
- (a) Report to the Maintenance Surveyor with alternative proposal.
 - (b) Resume the original condition including re-planting to the satisfaction of the Maintenance Surveyor.

SPECIAL CONDITIONS (CONT'D)**COLLECTION SERVICES OF THE SUSPECTED RED IMPORTED FIRE ANTS**

- | | | |
|-------|--|---|
| VIII. | The items for “mark, cordon off and isolate possible infested zone around single suspected RIFA mound” shall be measured once for a single suspect of RIFA in one location. If there are multiple suspected RIFA mounds in the same location, the “add to Item” shall be measured for each additional mound. | Measurement of collection services of the suspected Red Imported Fire Ants |
| IX. | The items for “collect specimen of suspected RIFA” shall be measured once for each Works Order as directed by the Maintenance Surveyor. | |
| X. | The items for “add to Item for each additional specimen collection” shall only be measured as directed by the Maintenance Surveyor. | |
| XI. | The item for “reporting to relevant Government Authorities” shall be measured once only for the Works Order. | |
| XII. | The rates for “mark, cordon off and isolate possible infested zone” and “add to Item for each multiple suspected RIFA mound” shall include for : - | Rates for collection services of the suspected Red Imported Fire Ants |
| | (a) The provision of cordon line.
(b) Clear warning signs in both English and Chinese about the presence of suspected RIFA and the relevant pest control situation. | |
| XIII. | The rates for “collect specimen of suspected RIFA” and “add to for each additional specimen collection” shall include for : - | |
| | (a) Storage of specimen in an approved container and in 70% alcohol.
(b) Collection, handling and transporting all specimens of suspected RIFA to the Plant and Pesticides Regulatory Division of AFCD. | |
| XIV. | The rates for “reporting to the relevant Government Authorities” shall include for : - | |
| | (a) Completion and submission of necessary information in the appropriate forms to AFCD, ETWB and other relevant Government Authorities. | |

CONTROL SERVICES OF THE CONFIRMED RED IMPORTED FIRE ANTS

- | | | |
|--------|---|--|
| XV. | The item for “submit a proposal of controlling RIFA” shall be measured once only for the Works Order of treatment services on RIFA. | Measurement of control services of the confirmed Red Imported Fire Ants |
| XVI. | The item for “clear and remove mulch from site” shall be measured for the infested area of the site as directed by the Maintenance Surveyor. | |
| XVII. | The items for “pest control over infested area” shall be measured for the infested area of the site as directed by the Maintenance Surveyor. | |
| XVIII. | The item for “pest control to confirmed RIFA mounds” shall be measured where RIFA mounds are confirmed and as directed by the Maintenance Surveyor. | |
| XIX. | The item for “submit written report after each controlling service” shall be measured for each controlling service completed. | |

SPECIAL CONDITIONS (CONT'D)

CONTROL SERVICES OF THE CONFIRMED RED IMPORTED FIRE ANTS (Cont'd)

Rates for control services of the confirmed Red Imported Fire Ants

- XX. The rates for “submit a proposal of controlling RIFA” shall include for : -
- (a) Submission of proposal for controlling RIFA including but not limited to pest control methodology to individual mound treatment and/or over large infested area.
 - (b) Submission of working programme including pest control schedule and surveillance programme schedule.
 - (c) Submission of layout plan showing the location of pest control to be provided.
 - (d) Submission of details of the pesticides to be applied including Material Safety Date Sheet, application procedures with precaution measures and ecological information.
- XXI. The rates for “clear and remove mulch from site” shall include for : -
- (a) Treating mulch with approved pest control methodology before removal.
 - (b) Making good disturbed surfaces to match existing.
- XXII. The rates for “pest control over large infested area” shall include for : -
- (a) The application of a pest control methodology approved by the Maintenance Surveyor.
- XXIII. The rates for “pest control up to five confirmed RIFA mounds” shall include for : -
- (a) The application of a pest control methodology approved by the Maintenance Surveyor.
 - (b) The application up to the first 5 number of confirmed RIFA mounds identified for the Works Order.
- XXIV. The rates for “submit written report after each controlling service” shall include for : -
- (a) Reporting the effectiveness of each individual pest control.
 - (b) Reporting any new findings of RIFA mound.

SURVEILLANCE MONITORING OF THE CONFIRMED RED IMPORTED FIRE ANTS

Measurement of surveillance monitoring of the confirmed Red Imported Fire Ants

- XXV. The item for “carry out surveillance visit” shall be measured for the monitoring the effectiveness of RIFA eradication as directed by the Maintenance Surveyor.
- XXVI. The item for “submit written report after each surveillance visit” shall be measured for each surveillance visit completed.
- XXVII. The rates for “carry out surveillance visit up to five confirmed RIFA mound” shall include for : -
- (a) Carry out the visit to monitor the effectiveness of RIFA eradication up to the first 5 number of confirmed RIFA mounds.
- XXVIII. The rates for “submit written report after each surveillance visit” shall include for : -
- (a) Reporting the effectiveness of the RIFA eradication.
 - (b) Reporting any new findings of RIFA mound.

Rates for surveillance monitoring of the confirmed Red Imported Fire Ants

Item	PART I - CONTROL TREATMENT ON PESTS AND TERMITES		Item
	PEST CONTROL	A	
	<i>Per square metre</i>	\$	
54001	Provide pest/mosquito control over infested area for which the Contractor is not liable under his contractual obligations and when ordered by the Maintenance Surveyor.....	5.20	54001
	TERMITE CONTROL		
	<i>Per item</i>		
54002	Provide termite treatment in mound and over infested area n.e. 100 m ²	1,353.10	54002
	<i>Each</i>		
54003	Add to Item 54002 for each additional 10 m ² or part thereof in area.....	119.70	54003
	PART II - TREATMENT SERVICES ON RED IMPORTED FIRE ANTS		
	PROTECTION OF EXISTING PLANTING		
	<i>Per item</i>		
54004	Maintain and protect all existing planting in the controlling area.....	1,484.90	54004
	COLLECTION SERVICES OF THE SUSPECTED RED IMPORTED FIRE ANTS		
	<i>Each</i>		
54005	Mark, cordon off and isolate possible infested zone around single suspected Red Imported Fire Ant mound.....	1,484.90	54005
54006	Add to Item 54005 for each multiple suspected Red Imported Fire Ant mound.....	278.40	54006
54007	Collect specimen of suspected Red Imported Fire Ant.....	945.70	54007
54008	Add to Item 54007 for each additional specimen collection.....	393.80	54008
	<i>Per item</i>		
54009	Reporting to relevant Government Authorities.....	552.00	54009
	CONTROL SERVICES OF THE CONFIRMED RED IMPORTED FIRE ANTS		
	<i>Per item</i>		
54010	Submit a proposal of controlling Red Imported Fire Ant.....	1,475.70	54010
	<i>Per square metre</i>		
54011	Clear and remove mulch from Site.....	10.50	54011
54012	Pest control over infested area.....	5.20	54012
	<i>Per item</i>		
54013	Pest control up to five confirmed Red Imported Fire Ant mounds.....	1,968.80	54013
	<i>Each</i>		
54014	Add to Item 54013 for each subsequent confirmed Red Imported Fire Ant mound.....	393.80	54014
	<i>Per item</i>		
54015	Submit written report after each controlling service.....	552.00	54015

Item	PART II - TREATMENT SERVICES ON RED IMPORTED FIRE ANTS (CONT'D)		Item
	SURVEILLANCE MONITORING OF THE CONFIRMED RED IMPORTED FIRE ANTS		
	<i>Per item</i>	A	
		\$	
54016	Carry out surveillance visit up to five confirmed Red Imported Fire Ant mounds.....	1,968.80	54016
	<i>Each</i>		
54017	Add to Item 54016 for each subsequent confirmed Red Imported Fire Ant mound.....	393.80	54017
	<i>Per item</i>		
54018	Submit written report after each surveillance visit.....	552.00	54018

**MEMORANDA
(TABLES OF METAL WEIGHTS, ETC.)**

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MEMORANDA

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1	Metric/Imperial equivalents.....	M/02
2	Mass (Weight) of wire.....	M/03
3	Mass (Weight) of sheet lead.....	M/04
4	Mass (Weight) of sheet zinc.....	M/04
5	Mass (Weight) of sheet metal.....	M/05
6	Mass (Weight) of metal plates.....	M/06
7	Mass (Weight) of round bars.....	M/07
8	Mass (Weight) of square bars.....	M/07
9	Mass (Weight) of flat bars.....	M/08
10	Mass (Weight) of black bolts and nuts.....	M/09
11	Mass (Weight) of cup-headed rivets.....	M/10
12	Mass (Weight) of rolled steel equal angles.....	M/11
13	Mass (Weight) of rolled steel unequal angles.....	M/11
14	Mass (Weight) of rolled steel short stalk T-bars.....	M/12
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18	Mass (Weight) of rolled steel universal beams.....	M/13
19	Mass (Weight) of rolled steel channels.....	M/13
20	Mass (Weight) of rolled steel round hollow tubes.....	M/14
21	Mass (Weight) of rolled steel square hollow sections.....	M/15
22	Mass (Weight) of rolled steel rectangular hollow sections.....	M/15
23	Mass (Weight) of solid aluminium round bars.....	M/16
24	Mass (Weight) of solid aluminium square bars.....	M/16
25	Mass (Weight) of solid aluminium flats.....	M/17
26	Mass (Weight) of aluminium equal angles.....	M/18
27	Mass (Weight) of aluminium unequal angles.....	M/18
28	Mass (Weight) of aluminium channels.....	M/19
29	Mass (Weight) of aluminium tee sections.....	M/19
30	Mass (Weight) of aluminium round hollow tubes.....	M/20
31	Mass (Weight) of aluminium square hollow sections.....	M/21
32	Mass (Weight) of aluminium rectangular hollow sections.....	M/21
33	Mass (Weight) of stainless steel flat bars.....	M/22
34	Mass (Weight) of stainless steel angles.....	M/22
35	Mass (Weight) of stainless steel channels.....	M/22
36	Mass (Weight) of stainless steel round tubes.....	M/22
37	Mass (Weight) of stainless steel square hollow sections.....	M/22
38	Mass (Weight) of stainless steel rectangular hollow sections.....	M/22
39	Standard BRC fabrics square meshes.....	M/23
40	Standard BRC fabrics rectangular meshes.....	M/23
41	Mass (Weight) of steel sheet piles.....	M/24
42	Mass (Weight) of steel chequer plate.....	M/24

TABLE 1
METRIC/IMPERIAL EQUIVALENTS

Metric sizes or dimensions (millimetres)	Imperial equivalents (inches)
3	1/8
6	1/4
10	3/8
13	1/2
16	5/8
19	3/4
22	7/8
25	1
32	1-1/4
35	1-3/8
38	1-1/2
44	1-3/4
51	2
57	2-1/4
64	2-1/2
70	2-3/4
76	3
83	3-1/4
89	3-1/2
95	3-3/4
100	4
125	5
150	6
175	7
200	8
225	9
250	10
275	11
300	12
450	18
600	24
750	30
900	36
1,200	48

Examples :-

1. An imperial sized scantling measuring 2" x 3" shall be paid for as a 50 x 75 mm scantling.
2. An imperial sized tower bolt measuring 9" long shall be paid for as a 225 mm long tower bolt.

TABLE 2
MASS (WEIGHT) OF WIRE

Preferred diameter (mm) BS 4391 : 1972	S.W.G.	Gauge diameter (mm)	kg/100 m	
			Steel	Copper
	40	0.122	0.01	0.01
0.125			0.01	0.01
	39	0.132	0.01	0.01
	38	0.152	0.01	0.02
0.160			0.02	0.02
	37	0.173	0.02	0.02
	36	0.193	0.02	0.02
0.200			0.02	0.02
	35	0.213	0.03	0.03
	34	0.234	0.03	0.04
0.250			0.04	0.04
	33	0.254	0.04	0.04
	32	0.274	0.05	0.05
	31	0.295	0.05	0.06
0.300			0.06	0.06
	30	0.315	0.06	0.07
	29	0.345	0.07	0.08
	28	0.376	0.09	0.09
0.400			0.10	0.11
	27	0.417	0.11	0.11
	26	0.457	0.13	0.14
0.500			0.15	0.17
	25	0.508	0.16	0.17
	24	0.559	0.19	0.21
0.600			0.22	0.24
	23	0.610	0.23	0.25
0.700			0.30	0.32
	22	0.711	0.31	0.33
0.800			0.39	0.42
	21	0.813	0.41	0.44
0.900			0.50	0.54
	20	0.914	0.52	0.55

Preferred diameter (mm) BS 4391 : 1972	S.W.G.	Gauge diameter (mm)	kg/100 m	
			Steel	Copper
1.000			0.62	0.66
	19	1.016	0.64	0.68
1.200			0.89	0.95
	18	1.219	0.92	0.98
	17	1.422	1.25	1.34
1.600			1.58	1.69
	16	1.626	1.63	1.75
	15	1.829	2.06	2.21
2.000			2.47	2.64
	14	2.032	2.55	2.73
	13	2.337	3.37	3.61
2.500			3.85	4.13
	12	2.642	4.31	4.62
	11	2.946	5.35	5.74
3.000			5.55	5.95
	10	3.251	6.52	6.99
	9	3.658	8.25	8.85
4.000			9.87	10.58
	8	4.064	10.19	10.92
	7	4.470	12.32	13.21
	6	4.877	14.67	15.73
5.000			15.42	16.53
	5	5.385	17.89	19.17
	4	5.893	21.42	22.96
6.000			22.20	23.80
	3	6.401	25.27	27.09
	2	7.010	30.31	32.49
	1	7.620	35.81	38.39
8.000			39.47	42.32

Note :-

For mass of iron wire, multiply the mass of steel wire by 0.991.
For mass of brass wire, multiply the mass of steel wire by 1.072.

TABLE 3

MASS (WEIGHT) OF SHEET LEAD

Code number	Thickness (mm)	kg/m ² *	Colour marking
3	1.25	14.18	green
4	1.80	20.41	blue
5	2.24	25.40	red
6	2.50	28.36	black
7	3.15	35.72	white
8	3.55	40.26	orange

* Basic value : 11,450 kg/m³

TABLE 4

MASS (WEIGHT) OF SHEET ZINC

Metric thickness BS-DD5 : 1971	Zinc gauge	Gauge thickness (mm)	kg/m ² *
	1	0.102	0.73
	2	0.152	1.09
	3	0.178	1.28
	4	0.203	1.46
0.25			1.80
	5	0.254	1.83
	6	0.273	1.97
0.30			2.16
	7	0.330	2.38
	8	0.381	2.74
0.40			2.88
	9	0.432	3.11
	10	0.483	3.48
0.50			3.60
	11	0.559	4.02
0.60			4.32
	12	0.635	4.57
0.70			5.04
	13	0.711	5.12
	14	0.787	5.67
0.80			5.76
0.90			6.48
	15	0.914	6.58
1.00			7.20
	16	1.041	7.50
	17	1.168	8.41
1.20			8.64
	18	1.295	9.32
	19	1.448	10.43
1.60	20	1.600	11.52
	21	1.778	12.80
2.00			14.40

* Basic value : 7,200 kg/m³

TABLE 5
MASS (WEIGHT) OF SHEET METAL

Metric thickness (mm)	S.W.G.	Gauge thickness (mm)	kg/m ² *			
			Steel	Stainless steel	Copper	Aluminium
	34	0.234	1.84	1.84	2.09	0.63
0.25			1.96	1.97	2.23	0.68
	33	0.254	1.99	2.00	2.27	0.69
	32	0.274	2.15	2.16	2.45	0.74
	31	0.295	2.31	2.32	2.64	0.80
0.30			2.35	2.36	2.68	0.81
	30	0.315	2.47	2.48	2.82	0.85
	29	0.345	2.71	2.72	3.08	0.93
	28	0.376	2.95	2.96	3.36	1.02
0.40			3.14	3.15	3.58	1.08
	27	0.417	3.27	3.29	3.73	1.13
	26	0.457	3.58	3.60	4.08	1.24
0.50			3.92	3.94	4.47	1.35
	25	0.508	3.98	4.00	4.54	1.38
	24	0.559	4.38	4.41	5.00	1.51
0.60			4.71	4.73	5.36	1.62
	23	0.610	4.78	4.81	5.45	1.65
0.70			5.49	5.52	6.26	1.89
	22	0.711	5.58	5.60	6.35	1.92
0.80			6.27	6.30	7.15	2.17
	21	0.813	6.38	6.41	7.27	2.20
0.90			7.06	7.09	8.04	2.44
	20	0.914	7.17	7.20	8.17	2.47
1.00			7.84	7.88	8.94	2.71
	19	1.016	7.97	8.01	9.08	2.75
1.20			9.41	9.46	10.73	3.25
	18	1.219	9.56	9.61	10.90	3.30
	17	1.422	11.15	11.21	12.71	3.85
1.60			12.55	12.61	14.30	4.33
	16	1.626	12.75	12.81	14.53	4.40
	15	1.829	14.34	14.41	16.35	4.95
2.00			15.69	15.76	17.88	5.41
	14	2.032	15.94	16.01	18.16	5.50
	13	2.337	18.33	18.42	20.89	6.33
2.50			19.61	19.70	22.35	6.77
	12	2.642	20.72	20.82	23.61	7.15
	11	2.946	23.11	23.22	26.33	7.97
3.00			23.53	23.64	26.81	8.12
	10	3.251	25.50	25.62	29.06	8.80
	9	3.658	28.69	28.83	32.70	9.90
4.00			31.37	31.52	35.75	10.83
	8	4.064	31.87	32.03	36.32	11.00
	7	4.470	35.06	35.23	39.95	12.10
	6	4.877	38.25	38.44	43.59	13.20
5.00			39.22	39.41	44.69	13.54
	5	5.385	42.23	42.44	48.13	14.58
	4	5.893	46.22	46.44	52.67	15.95
6.00			47.06	47.29	53.63	16.24
	3	6.401	50.20	50.45	57.21	17.33
	2	7.010	54.98	55.25	62.66	18.98
	1	7.620	59.76	60.05	68.11	20.63
8.00			62.74	63.05	71.50	21.66

* Basic value : Mild steel 7,843 kg/m³
 Stainless steel 7,881 kg/m³
 Copper 8,938 kg/m³
 Aluminium 2,707 kg/m³

For mass of iron sheeting, multiply the mass of steel sheeting by 0.991.
 For mass of brass sheeting, multiply the mass of steel sheeting by 1.072.
 For mass of sheeting galvanized on both sides, add 0.730 kg/m².

TABLE 6
MASS (WEIGHT) OF METAL PLATES

Metric thickness (mm)	Imperial thickness (inches)	Metric equivalents (mm)	kg/m ² *			
			Steel	Stainless steel	Copper	Aluminium
	1/16	1.59	12.47	12.53	14.21	4.30
1.60			12.55	12.61	14.30	4.33
2.00			15.69	15.76	17.88	5.41
3.00			23.53	23.64	26.81	8.12
	1/8	3.18	24.94	25.06	28.42	8.61
4.00			31.37	31.52	35.75	10.83
	3/16	4.76	37.33	37.51	42.54	12.89
5.00			39.22	39.41	44.69	13.54
6.00			47.06	47.29	53.63	16.24
	1/4	6.35	49.80	50.04	56.76	17.19
8.00			62.74	63.05	71.50	21.66
	3/8	9.53	74.74	75.11	85.18	25.80
10.00			78.43	78.81	89.38	27.07
12.00			94.12	94.57	107.26	32.48
	1/2	12.70	99.61	100.09	113.51	34.38
15.00			117.65	118.22	134.07	40.61
	5/8	15.88	124.55	125.15	141.94	42.99
18.00			141.17	141.86	160.88	48.73
	3/4	19.05	149.41	150.13	170.27	51.57
20.00			156.86	157.62	178.76	54.14
	7/8	22.23	174.35	175.19	198.69	60.18
25.00			196.08	197.03	223.45	67.68
	1	25.40	199.21	200.18	227.03	68.76

* Basic value :

Mild steel	7,843	kg/m ³
Stainless steel	7,881	kg/m ³
Copper	8,938	kg/m ³
Aluminium	2,707	kg/m ³

For mass of iron sheeting, multiply the mass of steel sheeting by 0.991.

For mass of brass sheeting, multiply the mass of steel sheeting by 1.072.

For mass of sheeting galvanized on both sides, add 0.730 kg/m².

TABLE 7

**MASS (WEIGHT) OF
MILD STEEL ROUND BARS**

Preferred metric diameter (mm) BS 4461 : 1971	Imperial sizes (inches)	Metric equivalents of imperial sizes (mm)	kg/m*
6			0.22
	1/4	6.350	0.25
8			0.39
	3/8	9.525	0.56
10			0.62
12			0.89
	1/2	12.700	0.99
	5/8	15.875	1.55
16			1.58
	3/4	19.050	2.24
20			2.46
	7/8	22.225	3.04
25			3.85
	1	25.400	3.98
	1-1/8	28.575	5.03
	1-1/4	31.750	6.21
32			6.31
	1-3/8	34.925	7.52
	1-1/2	38.100	8.95
40			9.86
	1-5/8	41.275	10.50
	1-3/4	44.450	12.18
	1-7/8	47.625	13.98
	2	50.800	15.90

TABLE 8

**MASS (WEIGHT) OF
ROLLED STEEL SQUARE BARS**

Recommended metric size (mm) BS 4429 : 1972	Imperial sizes (inches)	Metric equivalents of imperial sizes (mm)	kg/m*
	1/4	6.350	0.32
	5/16	7.938	0.49
	3/8	9.525	0.71
10			0.78
	7/16	11.112	0.97
12			1.13
	1/2	12.700	1.26
14			1.54
	9/16	14.288	1.60
	5/8	15.875	1.98
16			2.01
	11/16	17.462	2.39
18			2.54
	3/4	19.050	2.85
20			3.14
	13/16	20.638	3.34
	7/8	22.225	3.87
	15/16	23.812	4.45
25			4.90
	1	25.400	5.06
28			6.15
	1-1/8	28.575	6.40
	1-1/4	31.750	7.91
32			8.03
	1-3/8	34.925	9.57
35			9.61
	1-1/2	38.100	11.38
40			12.55
	1-5/8	41.275	13.36
	1-3/4	44.450	15.50
	1-7/8	47.625	17.80
	2	50.800	20.24

* Basic value : Mild steel 7,843 kg/m³

For mass of cast iron bars, multiply the mass of steel bars by 0.919.

For mass of wrought iron bars, multiply the mass of steel bars by 0.991.

For mass of brass bars, multiply the mass of steel bars by 1.072.

For mass of copper bars, multiply the mass of steel bars by 1.134.

TABLE 10
MASS (WEIGHT) OF BS 4190 ISO METRIC BLACK BOLTS WITH NUT

Length under head (mm)	Approximate mass in kilogrammes per 1,000 bolts complete including hexagon head and one nut each										
	Nominal size of bolt										
	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48
25	8.97	18.70	36.60	52.50	-	-	-	-	-	-	-
30	10.10	20.70	39.10	56.10	107.00	186.00	-	-	-	-	-
35	11.20	22.70	42.20	59.70	114.00	196.00	-	-	-	-	-
40	12.30	24.70	45.30	64.10	121.00	207.00	347.00	-	-	-	-
45	13.40	26.70	48.40	68.50	128.00	217.00	362.00	-	-	-	-
50	14.50	28.70	51.50	72.90	136.00	227.00	377.00	-	-	-	-
55	15.60	30.70	54.60	77.30	144.00	238.00	392.00	-	-	-	-
60	16.70	32.70	57.70	81.70	152.00	251.00	407.00	-	-	-	-
65	17.80	34.70	60.80	86.10	160.00	264.00	422.00	-	-	-	-
70	18.90	36.70	63.90	90.50	168.00	277.00	440.00	-	-	-	-
75	20.00	38.70	67.00	95.00	176.00	290.00	458.00	-	-	-	-
80	21.10	40.70	70.10	100.00	182.00	303.00	476.00	853.00	-	-	-
90	-	44.70	76.30	109.00	198.00	329.00	511.00	908.00	-	-	-
100	-	48.70	82.50	118.00	214.00	355.00	547.00	963.00	1,520.00	-	-
110	-	-	88.70	127.00	230.00	381.00	-	-	-	-	-
120	-	-	94.90	136.00	246.00	407.00	618.00	1,070.00	1,680.00	2,450.00	-
130	-	-	101.00	145.00	262.00	433.00	-	-	-	-	-
140	-	-	107.00	154.00	278.00	459.00	689.00	1,180.00	1,840.00	2,670.00	-
150	-	-	113.00	163.00	294.00	485.00	725.00	1,230.00	1,920.00	2,780.00	3,860.00
160	-	-	119.00	172.00	310.00	501.00	760.00	1,290.00	2,000.00	2,890.00	4,000.00
170	-	-	125.00	181.00	326.00	527.00	-	-	-	-	-
180	-	-	131.00	190.00	342.00	553.00	831.00	1,400.00	2,160.00	3,110.00	4,280.00
190	-	-	137.00	199.00	358.00	579.00	-	-	-	-	-
200	-	-	143.00	208.00	374.00	605.00	902.00	1,510.00	2,320.00	3,330.00	4,560.00
Add for extra nut per 1,000	2.32	4.82	10.90	15.90	30.80	60.30	103.00	216.00	369.00	610.00	924.00

Note : -

For mass of stainless steel bolts, multiply by the mass of black bolts by factor : 7881/7843

TABLE 11
MASS (WEIGHT) OF STEEL CUP-HEADED RIVETS

Length under head (mm)	Approximate mass in kilogrammes per 1,000						
	Diameter of rivet (mm)						
	10	12	16	20	22	24	27
25	21.50	31.90	-	-	-	-	-
30	24.60	36.30	71.00	125.00	-	-	-
35	27.70	40.80	78.80	137.00	-	-	-
40	30.80	45.20	86.70	149.00	186.00	238.00	-
45	33.80	49.70	94.60	162.00	201.00	255.00	-
50	36.90	54.10	103.00	174.00	216.00	273.00	-
55	40.00	58.50	110.00	186.00	231.00	291.00	-
60	43.10	63.00	118.00	199.00	246.00	309.00	386.00
65	46.20	67.40	126.00	211.00	261.00	326.00	408.00
70	49.30	71.80	134.00	223.00	276.00	344.00	431.00
75	52.30	76.30	142.00	236.00	291.00	362.00	453.00
80	55.40	80.70	150.00	248.00	306.00	380.00	476.00
90	-	89.60	166.00	273.00	335.00	415.00	521.00
100	-	98.50	181.00	297.00	365.00	451.00	566.00
110	-	-	197.00	322.00	395.00	486.00	611.00
120	-	-	213.00	347.00	425.00	522.00	656.00
130	-	-	-	371.00	455.00	557.00	700.00
140	-	-	-	396.00	485.00	593.00	745.00
150	-	-	-	-	514.00	628.00	790.00
160	-	-	-	-	554.00	664.00	835.00
170	-	-	-	-	574.00	699.00	880.00
180	-	-	-	-	604.00	735.00	925.00
190	-	-	-	-	-	770.00	970.00
200	-	-	-	-	-	806.00	1,050.00
Approx. mass in kg of 1,000 heads	6.10	9.70	23.60	50.60	66.80	95.50	116.20
Variation in mass of 1,000 rivets per mm of length	0.62	0.89	1.58	2.47	2.98	3.55	4.49

TABLE 12

MASS (WEIGHT) OF ROLLED STEEL
EQUAL ANGLES

Designation		Mass/unit length (kg/m)
Size (mm)	Thickness (mm)	
25 x 25	3	1.11
25 x 25	4	1.45
25 x 25	5	1.77
30 x 30	3	1.36
30 x 30	4	1.78
30 x 30	5	2.18
40 x 40	4	2.42
40 x 40	5	2.97
40 x 40	6	3.52
45 x 45	4	2.74
45 x 45	5	3.38
45 x 45	6	4.00
50 x 50	5	3.77
50 x 50	6	4.47
50 x 50	8	5.82
60 x 60	5	4.57
60 x 60	6	5.42
60 x 60	8	7.09
60 x 60	10	8.69
70 x 70	6	6.38
70 x 70	8	8.36
70 x 70	10	10.30
80 x 80	6	7.34
80 x 80	8	9.63
80 x 80	10	11.90
90 x 90	6	8.30
90 x 90	8	10.90
90 x 90	10	13.40
90 x 90	12	15.90
100 x 100	8	12.20
100 x 100	12	17.80
100 x 100	15	21.90
120 x 120	8	14.70
120 x 120	10	18.20
120 x 120	12	21.60
120 x 120	15	26.60
150 x 150	10	23.00
150 x 150	12	27.30
150 x 150	15	33.80
150 x 150	18	40.10
200 x 200	16	48.50
200 x 200	18	54.20
200 x 200	20	59.90
200 x 200	24	71.10

TABLE 13

MASS (WEIGHT) OF ROLLED STEEL
UNEQUAL ANGLES

Designation		Mass/unit length (kg/m)
Size (mm)	Thickness (mm)	
40 x 25	4	1.93
60 x 30	5	3.37
60 x 30	6	3.99
65 x 50	5	4.35
65 x 50	6	5.16
65 x 50	8	6.75
75 x 50	6	5.65
75 x 50	8	7.39
80 x 60	6	6.37
80 x 60	7	7.36
80 x 60	8	8.34
100 x 65	7	8.77
100 x 65	8	9.94
100 x 65	10	12.30
100 x 75	8	10.60
100 x 75	10	13.00
100 x 75	12	15.40
125 x 75	8	12.20
125 x 75	10	15.00
125 x 75	12	17.80
150 x 75	10	17.00
150 x 75	12	20.20
150 x 75	15	24.80
150 x 90	10	18.20
150 x 90	12	21.60
150 x 90	15	26.60
200 x 100	10	23.00
200 x 100	12	27.30
200 x 100	15	33.70
200 x 150	12	32.00
200 x 150	15	39.60
200 x 150	18	47.10

TABLE 14

**MASS (WEIGHT) OF ROLLED STEEL
SHORT STALK T-BARS**

Designation			Mass/unit length (kg/m)
Nominal size (mm) [inches]			
152	x	152	36.09
[6	x	6]	29.23
152	x	102	29.78
[6	x	4]	24.16
152	x	76	21.63
[6	x	3]	16.50
127	x	102	21.63
[5	x	4]	16.45
127	x	76	19.09
[5	x	3]	14.59
102	x	102	19.04
[4	x	4]	14.53
102	x	76	16.50
[4	x	3]	12.66
76	x	76	10.73
[3	x	3]	
64	x	64	8.81
[2-1/2	x	2-1/2]	6.08
51	x	51	4.76
[2	x	2]	
38	x	38	3.49
[1-1/2	x	1-1/2]	

TABLE 15

**MASS (WEIGHT) OF ROLLED STEEL
UNIVERSAL COLUMNS**

Designation			Mass/unit length (kg/m)	Nominal size (mm)
Serial size (mm) [inches]				
356	x	406	634.00	475 x 424
[14	x	16]	551.00	456 x 418
			467.00	437 x 412
			393.00	419 x 407
			340.00	406 x 403
			287.00	394 x 399
			235.00	381 x 395
356	x	368	477.00	427 x 424
[14	x	14-1/2]	202.00	375 x 374
			177.00	368 x 372
			153.00	362 x 370
			129.00	356 x 368
305	x	305	283.00	365 x 322
[12	x	12]	240.00	353 x 318
			198.00	340 x 314
			158.00	327 x 311
			137.00	320 x 309
			118.00	314 x 307
			97.00	308 x 305
254	x	254	167.00	289 x 264
[10	x	10]	132.00	276 x 261
			107.00	267 x 258
			89.00	260 x 256
			73.00	254 x 254
203	x	203	86.00	222 x 209
[8	x	8]	71.00	216 x 206
			60.00	210 x 205
			52.00	206 x 204
			46.00	203 x 203
152	x	152	37.00	162 x 154
[6	x	6]	30.00	158 x 153
			23.00	152 x 152

TABLE 16

**MASS (WEIGHT) OF ROLLED STEEL
JOISTS WITH 5 DEGREE
TAPERED FLANGES**

Designation			Mass/unit length (kg/m)
Nominal size (mm) [inches]			
203	x	102	25.33
[8	x	4]	
178	x	102	21.54
[7	x	4]	
152	x	89	17.09
[6	x	3-1/2]	
127	x	76	13.36
[5	x	3]	
102	x	64	9.65
[4	x	2-1/2]	
76	x	51	6.67
[3	x	2]	

TABLE 17

**MASS (WEIGHT) OF ROLLED STEEL
UNIVERSAL BEARING PILES**

Designation			Mass/unit length (kg/m)	Nominal size (mm)
Serial size (mm) [inches]				
356	x	368	174.00	362 x 378
[14	x	14-1/2]	152.00	356 x 376
			133.00	352 x 373
			109.00	346 x 370
305	x	305	110.00	308 x 310
[12	x	12]	79.00	299 x 306
254	x	254	85.00	254 x 260
[10	x	10]	63.00	247 x 256
203	x	203	54.00	204 x 207
[8	x	8]		

TABLE 18

MASS (WEIGHT) OF ROLLED STEEL UNIVERSAL BEAMS

Designation			Designation		
Serial size (mm) [inches]	Mass/unit length (kg/m)	Nominal size (mm)	Serial size (mm) [inches]	Mass/unit length (kg/m)	Nominal size (mm)
914 x 419 [36 x 16-1/2]	388.00	920 x 420	457 x 152 [18 x 6]	82.00	465 x 154
	343.00	911 x 418		74.00	461 x 153
914 x 305 [36 x 12]	289.00	927 x 308		67.00	457 x 152
	253.00	918 x 306		60.00	455 x 153
	224.00	910 x 304		52.00	450 x 152
	201.00	903 x 303	406 x 178 [16 x 7]	74.00	413 x 180
838 x 292 [33 x 11-1/2]	226.00	851 x 294		67.00	409 x 179
	194.00	841 x 292		60.00	406 x 178
	176.00	835 x 292		54.00	403 x 178
762 x 267 [30 x 10-1/2]	197.00	770 x 268	406 x 152 [16 x 6]	74.00	416 x 154
	173.00	762 x 267		67.00	412 x 153
	147.00	754 x 265		60.00	408 x 152
686 x 254 [27 x 10]	170.00	693 x 256	406 x 140 [16 x 5-1/2]	46.00	402 x 142
	152.00	688 x 254		39.00	397 x 142
	140.00	684 x 254	381 x 152 [15 x 6]	67.00	389 x 154
	125.00	678 x 253		60.00	385 x 153
610 x 305 [24 x 12]	238.00	633 x 312		52.00	381 x 152
	179.00	618 x 307	356 x 171 [14 x 6-3/4]	67.00	364 x 173
	149.00	610 x 305		57.00	359 x 172
610 x 229 [24 x 9]	140.00	617 x 230		51.00	356 x 172
	125.00	612 x 229		45.00	352 x 171
	113.00	607 x 228	356 x 127 [14 x 5]	39.00	353 x 126
	101.00	602 x 228		33.00	348 x 125
610 x 178 [24 x 7]	91.00	602 x 178	305 x 165 [12 x 6-1/2]	54.00	311 x 167
	82.00	598 x 178		46.00	307 x 166
533 x 330 [21 x 13]	212.00	545 x 334		40.00	304 x 165
	189.00	540 x 332	305 x 127 [12 x 5]	48.00	310 x 125
	167.00	533 x 330		42.00	307 x 124
533 x 210 [21 x 8-1/4]	122.00	545 x 212		37.00	304 x 124
	109.00	540 x 211	305 x 102 [12 x 4]	33.00	313 x 102
	101.00	537 x 210		28.00	309 x 102
	92.00	533 x 209		25.00	305 x 102
	82.00	528 x 209	254 x 146 [10 x 5-3/4]	43.00	260 x 147
533 x 165 [21 x 6-1/2]	73.00	529 x 166		37.00	256 x 146
	66.00	525 x 165		31.00	252 x 146
457 x 191 [18 x 7-1/2]	98.00	467 x 193	254 x 102 [10 x 4]	28.00	260 x 102
	89.00	464 x 192		25.00	257 x 102
	82.00	460 x 191		22.00	254 x 102
	74.00	457 x 190	203 x 133 [8 x 5-1/4]	30.00	207 x 134
	67.00	454 x 190		25.00	203 x 133

TABLE 19

MASS (WEIGHT) OF ROLLED STEEL CHANNELS

Designation			Designation		
Nominal size (mm)	Mass/unit length (kg/m)	Imperial size [inches]	Nominal size (mm)	Mass/unit length (kg/m)	Imperial size [inches]
432 x 102	66.54	[17 x 4]	203 x 76	23.82	[8 x 3]
381 x 102	55.10	[15 x 4]	178 x 89	26.81	[7 x 3-1/2]
305 x 102	46.18	[12 x 4]	178 x 76	20.84	[7 x 3]
305 x 89	41.69	[12 x 3-1/2]	152 x 89	23.84	[6 x 3-1/2]
254 x 89	35.74	[10 x 3-1/2]	152 x 76	17.88	[6 x 3]
254 x 76	28.59	[10 x 3]	127 x 64	14.90	[5 x 2-1/2]
229 x 89	32.76	[9 x 3-1/2]	102 x 51	10.42	[4 x 2]
229 x 76	26.06	[9 x 3]	76 x 38	6.70	[3 x 1-1/2]
203 x 89	29.78	[8 x 3-1/2]			

TABLE 20

**MASS (WEIGHT) OF ROLLED STEEL
ROUND HOLLOW TUBES**

Diameter (mm)	Thickness (mm)	Mass/unit length (kg/m)
21.30	3.20	1.43
26.90	3.20	1.87
33.70	2.60	1.99
	3.20	2.41
	4.00	2.93
42.40	2.60	2.55
	3.20	3.09
	4.00	3.79
48.30	3.20	3.56
	4.00	4.37
	5.00	5.34
60.30	3.20	4.51
	4.00	5.55
	5.00	6.82
76.10	3.20	5.75
	4.00	7.11
	5.00	8.77
88.90	3.20	6.76
	4.00	8.38
	5.00	10.30
114.30	3.60	9.83
	5.00	13.50
	6.30	16.80
139.70	5.00	16.60
	6.30	20.70
	8.00	26.00
	10.00	32.00
168.30	5.00	20.10
	6.30	25.20
	8.00	31.60
	10.00	39.00
193.70	5.40	25.10
	6.30	29.10
	8.00	36.60
	10.00	45.30
	12.50	55.90
219.10	16.00	70.10
	6.30	33.10
	8.00	41.60
	10.00	51.60
	12.50	63.70
16.00	80.10	
20.00	98.20	

Diameter (mm)	Thickness (mm)	Mass/unit length (kg/m)
244.50	6.30	37.00
	8.00	46.70
	10.00	57.80
	12.50	71.50
	16.00	90.20
273.00	20.00	111.00
	6.30	41.40
	8.00	52.30
	10.00	64.90
	12.50	80.30
323.90	16.00	101.00
	20.00	125.00
	25.00	153.00
	8.00	62.30
	10.00	77.40
355.60	12.50	96.00
	16.00	121.00
	20.00	150.00
	25.00	184.00
	8.00	68.60
406.40	10.00	85.20
	12.50	106.00
	16.00	134.00
	20.00	166.00
	25.00	204.00
457.00	10.00	97.80
	12.50	121.00
	16.00	154.00
	20.00	191.00
	25.00	235.00
457.00	32.00	295.00
	10.00	110.00
	12.50	137.00
	16.00	174.00
	20.00	216.00
25.00	266.00	
32.00	335.00	
40.00	411.00	

TABLE 21

**MASS (WEIGHT) OF ROLLED STEEL
SQUARE HOLLOW SECTIONS**

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
20 x 20	2.00	1.12
	2.60	1.39
30 x 30	2.60	2.21
	3.20	2.65
40 x 40	2.60	3.03
	3.20	3.66
	4.00	4.46
50 x 50	3.20	4.66
	4.00	5.72
	5.00	6.97
60 x 60	3.20	5.67
	4.00	6.97
	5.00	8.54
70 x 70	3.60	7.46
	5.00	10.10
80 x 80	3.60	8.59
	5.00	11.70
	6.30	14.40
90 x 90	3.60	9.72
	5.00	13.30
	6.30	16.40
100 x 100	4.00	12.00
	5.00	14.80
	6.30	18.40
	8.00	22.90
	10.00	27.90
120 x 120	5.00	18.00
	6.30	22.30
	8.00	27.90
	10.00	34.20
150 x 150	5.00	22.70
	6.30	28.30
	8.00	35.40
	10.00	43.60
	12.50	53.40
180 x 180	16.00	66.40
	6.30	34.20
	8.00	43.00
	10.00	53.00
	12.50	65.20
200 x 200	16.00	81.40
	6.30	38.20
	8.00	48.00
	10.00	59.30
	12.50	73.00
250 x 250	16.00	91.50
	6.30	48.10
	8.00	60.50
	10.00	75.00
	12.50	92.60
300 x 300	16.00	117.00
	10.00	90.70
	12.50	112.00
350 x 350	16.00	142.00
	10.00	106.00
	12.50	132.00
400 x 400	16.00	167.00
	10.00	122.00
	12.50	152.00
	16.00	192.00

TABLE 22

**MASS (WEIGHT) OF ROLLED STEEL
RECTANGULAR HOLLOW SECTIONS**

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
50 x 30	2.60	3.03
	3.20	3.66
60 x 40	3.20	4.66
	4.00	5.72
80 x 40	3.20	5.67
	4.00	6.97
90 x 50	3.60	7.46
	5.00	10.10
100 x 50	3.20	7.18
	4.00	8.86
	5.00	10.90
100 x 60	3.60	8.59
	5.00	11.70
	6.30	14.40
120 x 60	3.60	9.72
	5.00	13.30
	6.30	16.40
120 x 80	5.00	14.80
	6.30	18.40
	8.00	22.90
	10.00	27.90
150 x 100	5.00	18.70
	6.30	23.30
	8.00	29.10
	10.00	35.70
160 x 80	5.00	18.00
	6.30	22.30
	8.00	27.90
	10.00	34.20
200 x 100	5.00	22.70
	6.30	28.30
	8.00	35.40
	10.00	43.60
	12.50	53.40
250 x 150	16.00	66.40
	6.30	38.20
	8.00	48.00
	10.00	59.30
	12.50	73.00
300 x 200	16.00	91.50
	6.30	48.10
	8.00	60.50
	10.00	75.00
	12.50	92.60
400 x 200	16.00	117.00
	10.00	90.70
	12.50	112.00
	16.00	142.00
450 x 250	10.00	106.00
	12.50	132.00
	16.00	167.00

TABLE 23

MASS (WEIGHT) OF SOLID ALUMINIUM ROUND BARS

Diameter (mm)	Mass/unit length (kg/m)
5.00	0.054
6.35	0.086
6.73	0.097
7.14	0.109
7.92	0.134
8.74	0.162
9.14	0.178
9.52	0.193
10.31	0.226
11.10	0.263
11.89	0.301
12.70	0.344
14.27	0.434
15.06	0.484
15.87	0.537

Diameter (mm)	Mass/unit length (kg/m)
17.45	0.649
19.05	0.772
19.84	0.838
20.62	0.906
21.44	0.979
22.22	1.052
23.80	1.207
25.40	1.375
26.97	1.552
28.19	1.694
28.58	1.740
30.15	1.936
31.75	2.147
33.32	2.366
34.92	2.598

Diameter (mm)	Mass/unit length (kg/m)
35.99	2.760
36.50	2.838
38.10	3.092
44.45	4.210
46.99	4.656
47.62	4.832
50.80	5.497
52.98	6.207
57.15	6.959
60.32	7.753
63.50	8.590
69.85	10.387
76.20	12.359

TABLE 24

MASS (WEIGHT) OF SOLID ALUMINIUM SQUARE BARS

Size (mm)	Mass/unit length (kg/m)
6.35	0.109
7.92	0.171
9.52	0.244

Size (mm)	Mass/unit length (kg/m)
12.19	0.403
12.70	0.438
15.88	0.682

Size (mm)	Mass/unit length (kg/m)
19.05	0.984
22.22	1.341
25.40	1.750

TABLE 25

**MASS (WEIGHT) OF SOLID
ALUMINIUM FLATS**

Size (mm)	Mass/unit length (kg/m)
6.35 x 3.18	0.054
9.52 x 2.36	0.061
9.52 x 3.18	0.082
9.52 x 6.35	0.016
10.10 x 2.01	0.055
11.10 x 3.96	0.118
11.10 x 6.35	0.190
12.70 x 1.57	0.054
12.70 x 2.36	0.080
12.70 x 3.18	0.109
12.70 x 4.75	0.164
12.70 x 6.35	0.219
14.00 x 3.00	0.113
15.88 x 1.57	0.067
15.88 x 2.36	0.101
15.88 x 3.18	0.137
15.88 x 4.75	0.204
15.88 x 6.35	0.272
15.88 x 9.52	0.409
17.45 x 3.18	0.150
17.45 x 4.75	0.223
17.45 x 6.35	0.301
18.24 x 8.74	0.427
18.64 x 4.37	0.219
19.05 x 1.57	0.082
19.05 x 2.36	0.122
19.05 x 3.18	0.164
19.05 x 4.75	0.246
19.05 x 6.35	0.329
19.05 x 9.07	0.491
19.99 x 3.00	0.162
22.22 x 3.18	0.192
22.22 x 6.35	0.381
22.22 x 9.52	0.574
23.80 x 3.18	0.205
23.80 x 6.35	0.409
23.80 x 9.52	0.615
24.99 x 8.00	0.543
25.40 x 1.57	0.109
25.40 x 2.36	0.162
25.40 x 3.18	0.219
25.40 x 4.75	0.327
25.40 x 6.35	0.438
25.40 x 7.92	0.546
25.40 x 9.52	0.656
25.40 x 12.70	0.875
25.40 x 15.88	1.094

Size (mm)	Mass/unit length (kg/m)
25.40 x 19.05	1.312
25.58 x 3.18	0.242
25.58 x 6.35	0.491
31.75 x 1.60	0.138
31.75 x 3.18	0.274
31.75 x 4.75	0.409
31.75 x 6.35	0.546
31.75 x 9.52	0.820
31.75 x 12.70	1.089
34.92 x 3.18	0.301
34.92 x 6.35	0.582
34.92 x 9.52	0.903
34.92 x 12.70	1.204
38.10 x 1.57	0.162
38.10 x 2.36	0.244
38.10 x 3.18	0.327
38.10 x 4.75	0.490
38.10 x 6.35	0.656
38.10 x 9.52	0.982
38.10 x 12.70	1.310
38.10 x 15.88	1.640
38.10 x 19.05	1.964
38.10 x 25.40	2.625
41.28 x 3.18	0.356
41.28 x 6.35	0.711
41.28 x 9.52	1.065
44.45 x 3.18	0.382
44.45 x 6.35	0.765
44.45 x 9.52	1.149
44.45 x 12.70	1.531
50.80 x 1.57	0.217
50.80 x 3.18	0.438
50.80 x 4.75	0.655
50.80 x 6.35	0.875
50.80 x 9.52	1.312
50.80 x 12.70	1.750
50.80 x 15.88	2.188
57.15 x 2.29	0.354
57.15 x 3.18	0.492
57.15 x 6.35	0.984
57.15 x 9.52	1.476
57.15 x 12.70	1.969
57.15 x 19.05	2.952
59.44 x 3.56	0.573
63.37 x 19.30	3.319
63.50 x 1.57	0.271
63.50 x 2.36	0.406

Size (mm)	Mass/unit length (kg/m)
63.50 x 3.18	0.546
63.50 x 6.35	1.094
63.50 x 9.52	1.644
63.50 x 12.70	2.188
63.50 x 19.05	3.281
69.85 x 3.18	0.601
69.85 x 4.75	0.952
69.85 x 6.35	1.204
69.85 x 9.52	1.804
69.85 x 12.70	2.406
69.85 x 15.88	3.008
76.20 x 1.57	0.324
76.20 x 3.18	0.658
76.20 x 6.35	1.312
76.20 x 9.52	1.969
76.20 x 12.70	2.619
76.20 x 19.05	3.938
82.55 x 3.18	0.665
82.55 x 6.35	1.423
82.55 x 12.70	2.844
88.90 x 3.18	0.765
88.90 x 6.35	1.531
88.90 x 9.52	2.296
88.90 x 12.70	3.063
95.25 x 3.18	0.821
95.25 x 6.35	1.641
95.25 x 9.52	2.461
95.25 x 12.70	3.281
101.60 x 3.18	0.875
101.60 x 6.35	1.750
101.60 x 9.52	2.619
101.60 x 31.75	8.750
114.30 x 2.03	0.629
114.30 x 6.35	1.969
114.30 x 9.52	2.952
114.30 x 12.70	3.929
127.00 x 6.35	2.188
127.00 x 9.52	3.289
127.00 x 12.70	4.375
127.00 x 19.05	6.563
133.35 x 6.35	2.274
139.70 x 6.35	2.406
146.05 x 6.35	2.490
152.40 x 3.18	1.302
152.40 x 6.35	2.625
152.40 x 9.52	3.938

TABLE 26

**MASS (WEIGHT) OF
ALUMINIUM EQUAL ANGLES**

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
9.52	1.19	0.058
9.52	1.57	0.076
12.70	1.02	0.067
12.70	1.19	0.079
12.70	1.57	0.101
12.70	2.36	0.147
12.70	3.18	0.192
15.88	1.57	0.129
15.88	3.18	0.244
15.88	4.75	0.351
19.05	1.19	0.119
19.05	1.57	0.156
19.05	2.39	0.231
19.05	3.18	0.301
20.22	1.17	0.124
22.22	3.18	0.356
25.40	1.19	0.161
25.40	1.57	0.210
25.40	2.36	0.308
25.40	3.18	0.409
25.40	6.35	0.766
28.58	3.18	0.464
31.75	1.57	0.266
31.75	3.18	0.521
31.75	6.35	0.967
34.92	3.18	0.574
38.10	1.57	0.318
38.10	3.18	0.629
38.10	4.75	0.918
38.10	6.35	1.202
44.45	3.18	0.738
44.45	6.35	1.421
50.00	3.00	0.789
50.00	5.00	1.290
50.80	1.60	0.432
50.80	2.36	0.635
50.80	3.18	0.845
50.80	4.75	1.244
50.80	6.35	1.640
63.50	3.18	1.066
63.50	6.35	2.068
63.50	7.92	2.564
76.20	6.35	2.502
80.01	5.99	2.504
80.01	10.01	4.073

TABLE 27

**MASS (WEIGHT) OF
ALUMINIUM UNEQUAL ANGLES**

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
12.70 x 6.35	3.18	0.137
15.88 x 12.70	3.18	0.219
19.05 x 6.35	3.18	0.190
19.05 x 9.52	3.18	0.219
19.05 x 12.70	1.19	0.100
19.05 x 12.70	1.57	0.129
19.05 x 12.70	3.18	0.247
22.22 x 12.70	1.19	0.109
22.22 x 12.70	3.18	0.274
25.40 x 12.70	1.19	0.119
25.40 x 12.70	1.57	0.158
25.40 x 12.70	2.36	0.231
25.40 x 12.70	3.18	0.301
25.40 x 19.05	3.18	0.356
31.75 x 12.70	1.19	0.140
31.75 x 12.70	1.57	0.183
31.75 x 12.70	2.36	0.272
31.75 x 12.70	3.18	0.186
31.75 x 19.05	2.08	0.275
31.75 x 19.05	3.18	0.409
31.75 x 25.40	3.18	0.464
38.10 x 11.10	1.57	0.204
38.10 x 12.70	1.19	0.161
38.10 x 12.70	1.27	0.170
38.10 x 12.70	1.57	0.210
38.10 x 12.70	2.36	0.311
38.10 x 12.70	3.18	0.409
38.10 x 19.05	2.36	0.354
38.10 x 19.05	3.18	0.464
38.10 x 25.40	1.57	0.265
38.10 x 25.40	2.36	0.391
38.10 x 25.40	3.18	0.521
38.10 x 31.75	3.18	0.574
44.45 x 12.70	1.57	0.234
44.45 x 12.70	3.18	0.464
44.45 x 25.40	1.57	0.292
44.45 x 25.40	2.36	0.432
44.45 x 25.40	3.18	0.574
47.72 x 15.88	3.18	0.516
50.80 x 12.70	1.19	0.202
50.80 x 12.70	1.57	0.265
50.80 x 12.70	2.36	0.391
50.80 x 12.70	3.18	0.519
50.80 x 19.05	3.18	0.574
50.80 x 25.40	1.57	0.318
50.80 x 25.40	3.18	0.626
50.80 x 38.10	3.18	0.729
63.50 x 12.70	2.54	0.507
63.50 x 25.40	3.18	0.740
63.50 x 38.10	6.35	1.637
76.20 x 12.70	1.60	0.379
76.20 x 12.70	2.36	0.555
76.20 x 25.40	3.18	0.847
76.20 x 31.75	3.18	0.903
88.90 x 25.40	6.35	1.845
88.90 x 44.45	3.18	1.122

TABLE 28

MASS (WEIGHT) OF ALUMINIUM CHANNELS

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)	Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
7.14 x 5.16	1.19	0.049	34.92 x 6.35	1.57	0.190
7.39 x 5.99	1.29	0.051	38.10 x 12.70	1.57	0.257
7.77 x 5.54	1.52	0.065	38.10 x 12.70	2.36	0.376
7.92 x 12.70	1.57	0.129	38.10 x 19.05	3.18	0.602
9.53 x 9.53	1.19	0.085	38.10 x 25.40	1.57	0.366
9.53 x 9.53	1.57	0.109	38.10 x 38.10	3.18	0.930
11.94 x 15.24	2.36	0.239	38.10 x 69.85	1.78	0.841
12.70 x 9.53	1.57	0.122	44.45 x 15.88	3.18	0.602
12.70 x 9.53	3.18	0.219	44.45 x 25.40	3.18	0.766
12.70 x 12.70	1.57	0.149	50.80 x 12.70	1.14	0.229
12.70 x 12.70	2.36	0.214	50.80 x 12.70	1.57	0.311
12.70 x 19.05	1.57	0.202	50.80 x 12.70	2.36	0.457
12.70 x 19.05	2.36	0.293	50.80 x 12.70	3.18	0.601
12.70 x 19.05	3.18	0.384	50.80 x 25.40	1.57	0.419
14.23 x 4.75	2.36	0.122	50.80 x 25.40	2.03	0.537
15.87 x 3.96	1.57	0.087	50.80 x 25.40	3.18	0.812
15.88 x 12.70	3.18	0.301	50.80 x 25.40	9.50	1.186
15.88 x 15.88	1.57	0.190	50.80 x 50.80	3.18	1.257
15.88 x 15.88	1.60	0.192	53.97 x 6.53	1.57	0.271
15.88 x 25.40	3.18	0.519	57.15 x 12.70	1.57	0.445
17.45 x 11.10	3.18	0.286	63.50 x 12.70	2.36	0.580
19.05 x 9.53	1.57	0.149	63.50 x 15.88	3.18	0.766
19.05 x 9.53	2.54	0.228	63.50 x 22.22	3.18	0.875
19.05 x 12.70	1.19	0.137	63.50 x 38.10	3.18	1.147
19.05 x 12.70	2.54	0.271	70.00 x 25.00	3.00	0.928
19.05 x 19.05	1.57	0.231	76.20 x 12.70	1.60	0.427
19.05 x 19.05	3.18	0.437	76.20 x 12.70	2.36	0.620
19.05 x 38.10	3.18	0.763	76.20 x 12.70	3.18	0.818
22.22 x 12.79	1.19	0.147	76.20 x 25.40	2.36	0.783
25.40 x 12.70	1.57	0.202	76.20 x 25.40	3.18	1.040
25.40 x 19.05	2.36	0.379	76.20 x 38.10	2.54	1.015
25.40 x 25.40	3.18	0.601	76.20 x 44.45	2.36	1.028
25.40 x 38.10	3.18	0.818	95.25 x 25.40	3.18	2.689
31.75 x 12.70	1.19	0.180	100.00 x 20.00	1.75	0.649
31.75 x 12.70	3.40	0.466	101.60 x 25.40	2.03	0.817
31.75 x 25.40	2.36	0.498	101.60 x 38.10	3.18	1.473
31.75 x 25.40	3.18	0.656	127.00 x 69.85	3.18	2.232
31.75 x 41.28	3.18	0.930			

TABLE 29

MASS (WEIGHT) OF ALUMINIUM TEE SECTIONS

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)	Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
12.70 x 12.70	3.18	0.190	28.58 x 38.10	3.18	0.549
15.88 x 15.88	3.18	0.245	31.75 x 19.05	2.08	0.275
19.05 x 19.05	1.57	0.156	31.75 x 25.40	3.18	0.466
19.05 x 19.05	3.18	0.305	38.10 x 25.40	2.39	0.396
19.05 x 31.75	3.18	0.409	38.10 x 25.40	3.96	0.641
25.40 x 19.05	1.57	0.180	38.10 x 38.10	3.18	0.629
25.40 x 25.40	1.57	0.211	38.10 x 38.10	6.35	1.201
25.40 x 25.40	3.18	0.409	50.80 x 19.05	3.18	0.574
25.40 x 30.15	1.57	0.231	50.80 x 25.40	3.18	0.629
25.40 x 31.75	3.18	0.466	50.80 x 38.10	3.18	0.738
25.40 x 38.10	1.57	0.262	50.80 x 50.80	4.75	1.247
25.40 x 38.10	3.18	0.519			

TABLE 30
MASS (WEIGHT) OF ALUMINIUM ROUND HOLLOW TUBES

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
10.31	1.27	0.098
12.29	1.45	0.134
12.70	1.22	0.122
12.70	1.57	0.149
13.34	1.57	0.159
15.65	1.42	0.173
15.88	1.57	0.235
15.88	2.03	0.239
18.01	1.50	0.211
19.05	1.24	0.180
19.05	1.57	0.235
19.05	2.03	0.295
19.05	2.36	0.336
19.05	3.18	0.429
19.99	4.50	0.594
20.00	1.50	0.236
21.49	3.51	0.552
22.23	1.57	0.277
22.23	2.03	0.349
23.01	1.50	0.277
23.01	5.00	0.768
23.50	1.50	0.281
23.50	3.81	0.678
24.13	3.18	0.567
25.40	1.24	0.256
25.40	1.91	0.381
25.40	2.03	0.405
25.40	2.36	0.464
25.40	3.18	0.601
25.91	1.27	0.266
26.19	1.09	0.234
26.49	3.25	0.643
26.97	2.39	0.493
26.97	5.94	1.052
27.00	4.90	0.905
27.20	1.60	0.350
28.58	1.47	0.339
28.58	2.49	0.554
29.01	8.99	1.534
29.06	4.57	0.954
29.11	5.41	1.082
29.11	7.01	1.305
29.36	6.35	1.246
30.99	9.00	1.686
31.24	2.74	0.664
31.75	1.47	0.379
31.75	1.57	0.408

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
31.75	2.03	0.515
31.75	3.18	0.774
31.75	4.75	1.085
31.75	6.35	1.360
32.99	1.52	0.405
33.02	6.35	1.429
33.35	3.18	0.820
34.93	1.47	0.420
34.93	2.79	0.790
34.93	3.18	0.851
34.93	4.75	1.222
34.93	4.95	0.689
34.93	6.35	1.531
34.93	7.14	1.692
35.00	1.50	0.466
38.10	3.25	0.966
38.10	1.57	0.490
38.10	2.36	0.719
38.10	2.64	0.798
38.10	3.18	0.945
38.10	5.08	1.430
38.10	6.17	1.677
38.10	8.74	2.186
38.99	7.98	2.089
39.37	9.37	2.378
39.67	6.35	1.802
40.13	9.07	2.400
41.28	4.70	1.461
41.28	5.94	1.793
41.28	10.34	2.723
42.85	1.57	0.558
42.93	6.93	2.124
43.99	8.00	2.429
44.45	1.57	0.579
44.45	3.18	1.115
44.45	4.06	1.399
44.45	6.02	1.610
44.45	6.73	2.164
44.45	8.74	2.633
44.45	14.22	3.664
44.45	15.88	3.866
45.24	1.98	0.731
45.72	2.03	0.749
45.72	2.34	0.865
47.63	3.66	1.371
47.63	4.75	1.722
47.63	7.32	2.509

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
47.75	6.60	2.292
48.21	5.61	2.037
48.26	1.91	0.753
49.99	4.04	4.750
50.50	13.23	4.204
50.80	1.57	0.661
50.80	3.18	1.289
50.80	5.38	2.067
50.80	7.92	2.869
50.80	9.39	3.286
50.80	13.41	4.229
50.80	14.30	4.445
50.93	4.00	1.583
50.93	7.49	2.769
51.00	11.99	3.985
51.00	16.76	4.686
51.56	6.09	2.336
51.56	8.31	3.034
51.99	10.00	3.542
51.99	11.99	4.048
52.50	1.50	0.652
52.50	16.00	4.973
52.98	15.49	4.947
53.26	2.03	0.878
53.98	6.99	3.542
54.00	2.24	0.991
54.00	2.26	0.991
54.48	2.59	1.140
54.51	2.29	1.018
55.88	16.51	5.540
57.15	3.86	1.801
57.51	1.50	0.716
58.93	11.48	4.642
58.98	11.99	7.405
60.96	5.84	2.716
60.96	9.83	4.239
60.96	8.26	3.670
61.11	2.36	1.183
63.50	1.60	0.844
63.50	3.13	0.143
63.50	6.99	3.329
76.20	2.36	1.487
76.20	4.76	2.897
76.20	20.32	9.676
101.60	6.35	5.155
127.00	12.70	12.369

TABLE 31

**MASS (WEIGHT) OF ALUMINIUM
SQUARE HOLLOW SECTIONS**

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
9.54	1.57	0.135
12.88	1.20	0.150
12.70	1.57	0.244
15.88	1.20	0.191
18.24	3.18	0.519
19.05	1.20	0.232
19.05	1.57	0.296
19.05	2.36	0.428
25.40	1.40	0.364
25.40	1.60	0.415
25.40	2.03	0.515
25.40	2.36	0.589
25.40	3.18	0.765
30.00	2.00	0.604
31.75	2.03	0.655
38.10	1.57	0.623
38.10	2.03	0.795
38.10	3.18	1.205
44.45	2.39	1.091
46.62	3.18	1.531
50.00	2.00	1.044
50.80	2.03	1.074
50.80	2.36	1.241
63.50	3.18	2.056
76.20	3.18	2.516
80.00	2.49	2.092

TABLE 32

**MASS (WEIGHT) OF ALUMINIUM
RECTANGULAR HOLLOW SECTIONS**

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
12.70 x 9.85	1.59	0.165
25.40 x 12.70	1.60	0.302
25.40 x 12.70	1.20	0.232
31.75 x 19.05	2.36	0.591
36.10 x 19.05	2.36	0.673
38.10 x 25.40	1.40	0.461
38.10 x 25.40	2.03	0.655
38.10 x 25.40	2.54	0.811
47.63 x 23.80	3.18	1.122
50.00 x 40.00	2.00	0.933
50.80 x 25.40	1.40	0.557
50.80 x 25.40	1.57	0.624
50.80 x 25.40	2.03	0.795
50.80 x 25.40	2.36	0.917
50.80 x 38.10	1.60	0.744
50.80 x 38.10	2.03	0.935
50.80 x 38.10	2.36	1.016
63.50 x 31.75	2.36	1.161
63.50 x 38.10	2.54	1.327
63.50 x 38.10	3.18	1.652
69.85 x 31.75	3.18	1.641
76.20 x 25.40	1.80	0.957
76.20 x 25.40	2.36	1.241
76.20 x 38.10	3.18	1.860
76.20 x 44.45	1.80	1.143
76.20 x 44.45	2.36	1.439
76.20 x 44.45	3.18	1.958
76.20 x 50.80	2.36	1.567
76.20 x 50.80	3.18	2.076
80.00 x 20.00	2.00	1.045
80.00 x 40.00	2.00	1.258
80.00 x 50.00	2.50	1.688
82.55 x 28.58	2.36	1.360
100.00 x 40.00	2.50	1.823
101.60 x 25.40	1.80	1.205
101.60 x 25.40	2.03	1.354
101.60 x 25.40	2.36	1.567
101.60 x 38.10	3.18	2.292
101.60 x 44.45	1.80	1.391
101.60 x 44.45	1.98	1.529
101.60 x 44.45	2.36	1.813
101.60 x 44.45	3.18	2.403
101.60 x 60.33	2.36	2.015
127.00 x 25.40	2.36	1.894

TABLE 33

MASS (WEIGHT) OF STAINLESS
STEEL FLAT BARS

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
19.05	3.00	0.450
19.05	6.00	0.901
25.40	3.00	0.601
25.40	6.00	1.201
31.80	3.00	0.751
31.80	3.60	0.901
31.80	6.00	1.802
50.80	6.00	2.402

TABLE 34

MASS (WEIGHT) OF STAINLESS
STEEL ANGLES

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
9.52 x 9.52	1.00	0.142
12.70 x 12.70	1.00	0.192
19.05 x 19.05	1.00	0.292
25.40 x 25.40	1.00	0.392
12.70 x 25.40	1.00	0.293
38.10 x 38.10	3.00	1.731

TABLE 35

MASS (WEIGHT) OF STAINLESS
STEEL CHANNELS

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
9.52 x 9.52	0.50	0.109
9.52 x 9.52	0.80	0.170
12.70 x 12.70	0.50	0.146
12.70 x 12.70	0.80	0.230
12.70 x 19.05	0.50	0.171
12.70 x 25.40	0.50	0.196
12.70 x 38.10	0.50	0.246
12.70 x 50.80	0.50	0.296
12.70 x 76.20	0.50	0.396
12.70 x 101.60	0.80	0.791

TABLE 36

MASS (WEIGHT) OF STAINLESS
STEEL ROUND TUBES

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
9.52	0.80	0.173
12.70	1.00	0.290
15.87	0.80	0.298
19.05	1.00	0.447
19.05	1.20	0.530
25.40	1.00	0.604
25.40	1.50	0.888
31.75	1.00	0.761
31.75	1.50	1.123
38.10	1.50	1.359
44.45	1.50	1.595
50.80	1.50	1.831
60.32	1.50	2.184

TABLE 37

MASS (WEIGHT) OF STAINLESS
STEEL SQUARE HOLLOW SECTIONS

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
19.05	1.00	0.569
25.40	1.00	0.769
12.70	1.00	0.369
19.05	1.00	0.569
25.40	1.20	0.915
31.75	1.20	1.156
38.10	1.20	1.396
50.80	1.20	1.876

TABLE 38

MASS (WEIGHT) OF STAINLESS STEEL
RECTANGULAR HOLLOW SECTIONS

Size (mm)	Thickness (mm)	Mass/unit length (kg/m)
12.70 x 25.40	1.00	0.569
15.87 x 31.75	1.20	0.855
25.40 x 38.10	1.20	1.156
25.40 x 50.80	1.20	1.396
38.10 x 76.20	1.50	2.631
44.45 x 76.20	1.50	2.782
50.80 x 101.60	2.00	4.678

TABLE 39
STANDARD BRC FABRICS
SQUARE MESHES

BRC reference number	BS 4483 or SS-32 reference number	Main wire		Cross wire		Mass per unit area (kg/m ²)
		Size (mm)	Spacing (mm)	Size (mm)	Spacing (mm)	
A 10	A 393	10.00	200.00	10.00	200.00	6.16
A 9	-	9.00	200.00	9.00	200.00	4.99
A 8	A 252	8.00	200.00	8.00	200.00	3.95
A 7	A 193	7.00	200.00	7.00	200.00	3.02
A 6.5	-	6.50	200.00	6.50	200.00	2.61
A 6	A 142	6.00	200.00	6.00	200.00	2.22
A 5	A 98	5.00	200.00	5.00	200.00	1.54
A 4	-	4.00	200.00	4.00	200.00	0.99

TABLE 40
STANDARD BRC FABRICS
RECTANGULAR MESHES

BRC reference number	BS 4483 or SS-32 reference number	Main wire		Cross wire		Mass per unit area (kg/m ²)
		Size (mm)	Spacing (mm)	Size (mm)	Spacing (mm)	
B 12	B 1131	12.00	100.00	8.00	200.00	10.90
B 10	B 785	10.00	100.00	8.00	200.00	8.14
B 9	-	9.00	100.00	8.00	200.00	6.97
B 8	B 503	8.00	100.00	8.00	200.00	5.93
B 7	B 385	7.00	100.00	7.00	200.00	4.53
B 6	B 283	6.00	100.00	7.00	200.00	3.73
B 5	B 196	5.00	100.00	7.00	200.00	3.05
C 10	C 785	10.00	100.00	6.00	400.00	6.72
C 9	C 636	9.00	100.00	6.00	400.00	5.55
C 8	C 503	8.00	100.00	5.00	400.00	4.34
C 7	C 385	7.00	100.00	5.00	400.00	3.41
C 6	C 283	6.00	100.00	5.00	400.00	2.61
C 5	-	5.00	100.00	5.00	400.00	1.93

TABLE 41

MASS (WEIGHT) OF
STEEL SHEET PILES

Type	Mass per pile (kg/m)	Mass per wall width (kg/m ²)
FSP-I _A	35.50	88.80
FSP-II	48.00	120.00
FSP-II _A	43.20	108.00
FSP-III	60.00	150.00
FSP-III _A	58.40	146.00
FSP-III _L	68.00	138.00
FSP-IV	76.10	190.00
FSP-IV _A	74.00	185.00
FSP-IV _L	87.50	175.00
FSP-V _L	105.00	210.00
FSP-VI _L	120.00	240.00
YSP-I	36.50	91.20
YSP-U ₅	35.50	88.80
YSP-II	48.00	120.00
YSP-U ₉	43.20	108.00
YSP-III	60.00	150.00
YSP-U ₁₅	58.40	146.00
YSP-IV	76.10	190.00
YSP-U ₂₃	74.00	185.00
YSP-V	105.00	250.00

TABLE 42

MASS (WEIGHT) OF STEEL CHEQUER PLATE

Thickness on plain mm (t)	Projected thickness (inclusive of raised pattern) mm	Approximate weight kg/m ²
3.0	4.5	28.70
4.5	6.0	40.50
6.0	7.5	52.20
8.0	9.5	67.90
10.0	11.5	83.60
12.5	14.0	103.10

