

General Specification for Lift, Escalator and Passenger Conveyor Installation 2007 Edition

The 2007 edition of the General Specification for Lift, Escalator and Passenger Conveyor Installation comprises considerable updating and revisions to the 2002 edition.

In line with the global consciousness for our environment, the new specification has been re-written with sustainability as the key objective.

The updating of specification is a continuous process. With the benefit of information technology, electronic version of this new 2007 edition can be kept up-to-date and may be viewed on the ArchSD Homepage.

In view of the revisions and new additions, there will be an introductory period of 3 months whereby the General Specification for Lift, Escalator and Passenger Conveyor Installation 2002 Edition will still be the Contractual Document, whilst the new General Specification for Lift, Escalator and Passenger Conveyor Installation 2007 Edition may be viewed in parallel in preparation for full implementation by 17 December 2007.

- **Hence, for tenders to be invited on or after 17 December 2007, General Specification for Lift, Escalator and Conveyor Installation 2007 Edition shall be used.**
- **Existing contracts (including contracts using previous editions tendered before 17 December 2007) would not be affected.**

**Summary of Major Amendments Made in the General Specification for
Lift, Escalator and Passenger Conveyor Installation, 2007 Edition**

Clause	Amendment Made	Reason of Amendment
Part A- Section A1 to Section A4	Previous Part A completely revised. The National/International Standards referred to have been updated.	General Revision.
Part B	New Part	
Section B1	New Section	General requirements for materials, equipment and workmanship added
Section B2		
B2.1	Basically no change. Clause moved from previous Clause A6.1	Format of GS re-arranged.
B2.2	Clause moved from previous Clause A6.2. Requirements for conduit/trunking requirements previously stated in various Part moved to this Clause and rewritten.	Format of GS re-arranged.
B2.3	Clause moved from previous Clause A6.3. Requirements on equipotential bonding specified in new Clause B2.4.	Format of GS re-arranged.
B2.4	New Clause. Requirements on equipotential bonding added.	Specify more clearly the requirements on equipotential bonding
B2.5	Basically no change. Clause moved from previous Clause A6.4	Format of GS re-arranged.
B2.6	Basically no change. Clause moved from previous Clause A6.5	Format of GS re-arranged.
B2.7	Basically no change. Clause moved from previous Clause A6.6	Format of GS re-arranged.
B2.8	Basically no change. Clause moved from previous Clause A6.7	Format of GS re-arranged.
B2.9	Basically no change. Clause moved from previous Clause A6.8	Format of GS re-arranged.
Section B3		
B3.1	Basically no change. Clause moved from previous Clause A5.2	Format of GS re-arranged.
B3.2	Basically no change. Clause moved from previous Clause A7.1	Format of GS re-arranged.
B3.3	Basically no change. Clause moved from previous Clause A7.2	Format of GS re-arranged.
B3.4	Basically no change. Clause moved from previous Clause A7.3	Format of GS re-arranged.
B3.5	Basically no change. Clause moved from previous Clause A7.4	Format of GS re-arranged.
B3.6	New Clause. Structural Steel requirements added.	New Clause

Section B4		
B4.1	Clause moved from previous Clause A6.9 and updated	To tally with the COP for Energy Efficiency of Lift and Escalator Installations 2007 Edition. Format of GS re-arranged.
B4.2	Basically no change. Clause moved from previous Clause A6.10	Format of GS re-arranged.
B4.3	Clause moved from previous Clause A6.11 and updated	To tally with the COP for Energy Efficiency of Lift and Escalator Installations 2007 Edition. Format of GS re-arranged.
B4.4	Clause moved from previous Clause A6.12 and updated	To tally with the COP for Energy Efficiency of Lift and Escalator Installations 2007 Edition. Format of GS re-arranged.
B4.5	New Clause. New requirements for decoration load added.	To tally with the COP for Energy Efficiency of Lift and Escalator Installations 2007 Edition.
B4.6	Basically no change. Clause moved from previous Clause B18.8	Format of GS re-arranged.
B4.7	New Clause. New requirements for motor efficiency added.	Specify the requirements for motor efficiency.
B4.8	Previous Clause C15.2 moved to this Clause and rewritten.	Specify the requirements for service-on-demand control for escalator/passenger conveyor.
Section B5		
B5.1 – B5.5	New Clauses. Requirements for riding comfort added.	Specify the requirements for riding comfort
Part C	Previous Part B – Basically no change for most of the clauses except for change of Clause No. from Bx.y to Cx.y. Revisions highlighted below.	
Section C4		
C4.2	“ropes” revised to “suspension ropes”	To tally with Amendment No. 6 to COP on Design and Construction of Lifts and Escalators (2000 Edition) promulgated in EMSD Lift Circular No. 5/2004
C4.4	Replace “compensation ropes” by “compensation”	General Revision.
Section C8		
C8.4	Requirement of plywood backing deleted	To suit latest development of technology
C8.5(e)	General revision	To suit latest development of technology
C8.9	T5 electric fluorescent luminaires specified	To enhance energy efficiency
Section C9		
C9.4	Requirement of “lamp matrix actuated by solid state circuitry” deleted for position indicator	To allow for more new technologies
C9.4	Description of mounting method for indicators revised	General revision
C9.4	Requirement of Putonghua added to voice annunciator	New technical requirement

C9.5	Illumination of button revised	To tally with BSB Circular No. 31/2004
C9.7	New Clause "Information Display System" added	New technology
Section C10		
C10.9	New Clause "Door Operator" added	New technology
C10.10	Basically no change. Previous Clause B10.9	Format of GS re-arranged.
C10.11	Basically no change. Previous Clause B10.10	Format of GS re-arranged.
C10.12	Dual-function door edge added	New technology
C10.13	Basically no change. Previous Clause B10.12	Format of GS re-arranged.
C10.14	Basically no change. Previous Clause B10.13.	Format of GS re-arranged.
C10.15	Basically no change. Previous Clause B10.14	Format of GS re-arranged.
C10.16	Basically no change. Previous Clause B10.15	Format of GS re-arranged.
Section C11		
C11.3	Position indicator at intermediate floors required except for automatic group supervisory control for 2-8 interconnected passenger lifts	New technical requirement
C11.5	General revision	To suit latest development of technology
Section C13		
C13.3	"When there is a fire do not use the lift" revised to "IN CASE OF FIRE DO NOT USE THE LIFT"	To tally with Amendment No. 4 to COP on Design and Construction of Lifts and Escalators (2000 Edition) promulgated in EMSD Lift Circular No. 6/2003
Section C14		
C14.9	New Clause "Protection against Uncontrolled Car Movement" added	To tally with Amendment No. 10 to COP on Design and Construction of Lifts and Escalators (2000 Edition) promulgated in EMSD Lift Circular No. 3/2007
Section C15		
C15.1	"is 10% or more in excess" revised to "exceeds 110%"	To tally with Amendment No. 8 to COP on Design and Construction of Lifts and Escalators (2000 Edition) promulgated in EMSD Lift Circular No. 11/2005
Section C16		
C16.1	Previous Clause B16.2 for motor generator set deleted	Clarification of ambiguity for alternative equipment
C16.1	Restriction to use AC induction type motor deleted.	To suit latest development of technology to allow more options for lift motor
C16.2	Basically no change. Previous Clause B16.3	Format of GS re-arranged.
C16.3	Basically no change. Previous Clause B16.4	Format of GS re-arranged.
C16.4	Basically no change. Previous Clause B16.5	Format of GS re-arranged.
C16.5	Previous Clause B16.6. "travelling" revised to "downward travelling". "rated load plus 25%" revised to "rated load equivalent to 125% (150% in case of industrial truck loaded freight lift and vehicle lift) of the rated load".	Format of GS re-arranged. General revision to tally with COP on Design and Construction of Lifts and Escalators (2000 Edition)
C16.6	Basically no change. Previous Clause B16.7	Format of GS re-arranged.

C16.7	Basically no change. Previous Clause B16.8	Format of GS re-arranged.
Section C17		
C17.1	General Revision	To make the requirement clearer
Section C20	Requirements in previous Clause B20.2 moved to new Clause B2.2.	Format of GS re-arranged.
C20.2	Basically no change. Previous Clause B20.3	Format of GS re-arranged.
C20.3	Basically no change. Previous Clause B20.4	Format of GS re-arranged.
C20.4	Previous Clause B20.5. Minor updating.	General updating
C20.5	Previous Clause B20.6. LCD or similar slim type CCTV monitors specified	To suit latest development of technology
Section C21		
C21.1	General Revision	To be in line with COP on Design and Construction of Lifts and Escalators (2000 Edition)
Section C22		
C22.1	A phrase “unless otherwise specified” added for the Barrier Free Access Design Manual 1997	To cope with the official publication of the new version of Barrier Free Access Design Manual in the near future
C22.2	A phrase “unless otherwise specified” added for the Barrier Free Access Design Manual 1997	To cope with the official publication of the new version of Barrier Free Access Design Manual in the near future
C22.3	Diameter of handrail revised	To be in line with the draft new version of Barrier Free Access Design Manual
C22.5	Requirement of emergency electricity supply stated more clearly	To be in line with the draft new version of Barrier Free Access Design Manual
Section C23		
C23.1	New Clause C23.1 for “Limitation of Use” added	Hydraulic lift shall not be used for passenger lift
C23.2	Basically no change. Previous Clause B23.1.	Format of GS re-arranged.
C23.3	Basically no change. Previous Clause B23.2.	Format of GS re-arranged.
C23.4	Basically no change. Previous Clause B23.3.	Format of GS re-arranged.
C23.5	Basically no change. Previous Clause B23.4.	Format of GS re-arranged.
C23.6	Basically no change. Previous Clause B23.5.	Format of GS re-arranged.
C23.7	Basically no change. Previous Clause B23.6.	Format of GS re-arranged.
Section C24		
C24.6	“ropes” revised to “suspension ropes”	To tally with Amendment No. 6 to COP on Design and Construction of Lifts and Escalators (2000 Edition) promulgated in EMSD Lift Circular No. 5/2004
Part D	Previous Part C –Basically no change for most of the clauses except for change of Clause No. from Cx.y to Dx.y. Revisions highlighted below	
Section D1	Requirements for passenger conveyor added.	General revision
Section D2	Requirements for passenger conveyor added.	General revision
Section D4	Requirements in Previous Clause C4.1 moved to new Clause A3.3	Format of GS re-arranged.
D4.1	Basically no change. Previous Clause C4.2	Format of GS re-arranged.
D4.2	Basically no change. Previous Clause C4.2	Format of GS re-arranged.

Section D5	Requirements for passenger conveyor added.	General revision
Section D6	Requirements for passenger conveyor added, clauses re-written and amended .	General revision In line with COP
D6.5	Previous Clause C6.5 “Slim Type Escalator” changed to “Distance Between Balustrade Interior Panelling” and completely revised	General revision in line with COP
Section D7	Requirements for passenger conveyor added. Clause re-written	General revision To be in line with COP and the draft new version of Barrier Free Access Design Manual
Section D8	Requirements for passenger conveyor added.	General revision
Section D9	Requirements for passenger conveyor added.	General revision
Section D10	Requirements for passenger conveyor added.	General revision
D10.3	Requirements for VVVF motor and soft starter added.	To suit the latest development of technology
Section D11	Requirements for passenger conveyor added. Clause re-written.	General revision In line with COP
Section D11.2(c)	Replace the wording “operation” by “operational”.	General revision
Section D12	Requirements for passenger conveyor added.	General revision
Section D13	Requirements for passenger conveyor added. Requirements in previous Clause C13.1 moved to new Clause A3.3.	General revision
Section D14	Requirements for passenger conveyor added.	General revision
D14.1	Inclusion of more safety devices	In line with COP
Section D15	Requirements for passenger conveyor added. Requirements in previous C15.2 moved to new Clause B4.8.	General revision
D15.2	Basically no change. Previous Clause C15.3	Format of GS re-arranged.
Section D16	Requirements for passenger conveyor added.	General revision
Section D17	Requirements for passenger conveyor added.	General revision
D17.3	Clause amended	General revision in line with COP
Section D19	Clause amended	General revision
Part E	New Part	General Specification for powered vertical lifting platform installation added and incorporation of EMSD Circular No.4/2007 “Amendment No.11 – Incorporation of Part 6 of the Code of Practice”.

Part F	New Part	General Specification for stairlift installation added
Part G	New Part. Previous Part regarding Testing, Commissioning and Maintenance completely revised.	Requirements for inspection, testing and commissioning during construction period added
Part H	New Part. Previous Part regarding Testing, Commissioning and Maintenance completely revised.	Requirements for training, inspection, attendance, and operation & maintenance during maintenance period added
ANNEX		
Annex IA	Schedule nos. 3(c) and 4(d)&(e) added, and 4(b)&(c) revised. Some words generally refined to make the meaning clearer.	To tally with this revised GS.
Annex IB	“Note No. 3” in schedule 4(a) changed to “Note No. 2 “. New schedule 4(c) added. Some words generally refined to make the meaning clearer.	To correct typo and to tally with this revised GS
Annex IC	Schedule nos. 1(f) and 2(f) added, and 1(a)&(e) revised. Some words generally refined to make the meaning clearer.	To tally with this revised GS
Annex ID	New Annex	Maintenance schedule for vertical lifting platform added
Annex 1E	New Annex	Maintenance schedule for starlift added
Annex IIA	Format of logbook revised	General updating
Annex V	List of Standards updated	General updating