Wall Mounted

Loads and fixings (up to 12m travel)

Position	X (kN)	Y (kN)	Z (kN)	Comments
A	0	-0.3	+0.8	Door frame fixing at each entrance (loading directions relative to door orientation)
B	-3.2	±1.0	0	Guide side top fixing (stated loads shared between 2 fixings at each B position)
C	-4.8	±1.2	0	Guide side penultimate fixing (stated loads shared between 2 fixings at each C position)
D	±4.3	±1.2	0	Guide side intermediate fixing(s) - number of pitches dependant on travel (stated loads shared between 2 fixings at each D position)
E	+3.9	±1.2	0	Guide side bottom fixing (stated loads shared between 2 fixings at each E position)
F	0	0	+11.0	Vertical load at the base of each car guide
G	0	0	+19.3	Vertical load at each car buffer
H	0	0	+24.0	Vertical load at the base of hydraulic ram

Notes:

1. Details provided apply to Midilift Piccolo indoor applications, max 12m travel, where all specified fixings can be made directly into solid substrate or structural members. The table & sketches show all loads from the lift.

2. **Loads**
   Loads from the lift occur in all 3 axes (X, Y & Z). All values stated in the table are per position indicated in the sketches. All loads stated are for 'worst case' conditions (of load & travel). Loads stated are those in fixings at applicable positions. Where applicable, appropriate impact factors have been accounted for.

2a. General Horizontal plane fixings
Fixings at lettered positions (A, B, C, D & E) are compulsory. Forces apply in directions indicated in the table (note door loading, A are relative to door orientation). Positive directions shown in the sketch 'Positive axes'.

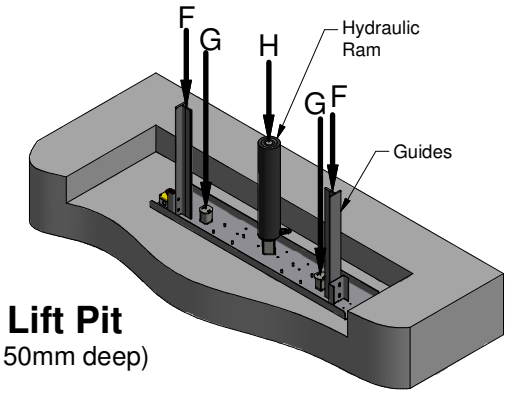
2b. Specific Notes - Horizontal plane fixings in X direction
1. Restraint forces arise from lift operation; applied load is a couple, in 2 positions (one on each guide). Force magnitude is 3.5kN at 1980mm pitch.
2. Maximum values are stated; restraint force at fixing positions vary in magnitude and direction depending on lift car position & guide bracket layout.
3. Stated forces will act as axial load on fixings at prescribed positions.

2c. Specific Notes - Horizontal plane fixings in Y direction
1. Lateral restraint in fixings arise from a couple applied to the guides, in a plane parallel to a plane passing through the centre of both guides; force magnitude is 1.0kN at a pitch of 1980mm.
2. Magnitude of lateral force varies according to lift position & guide bracket layout; direction of lateral force varies according to position of load in lift car.
3. Stated forces will act as lateral (shear) load in fixings at prescribed positions.

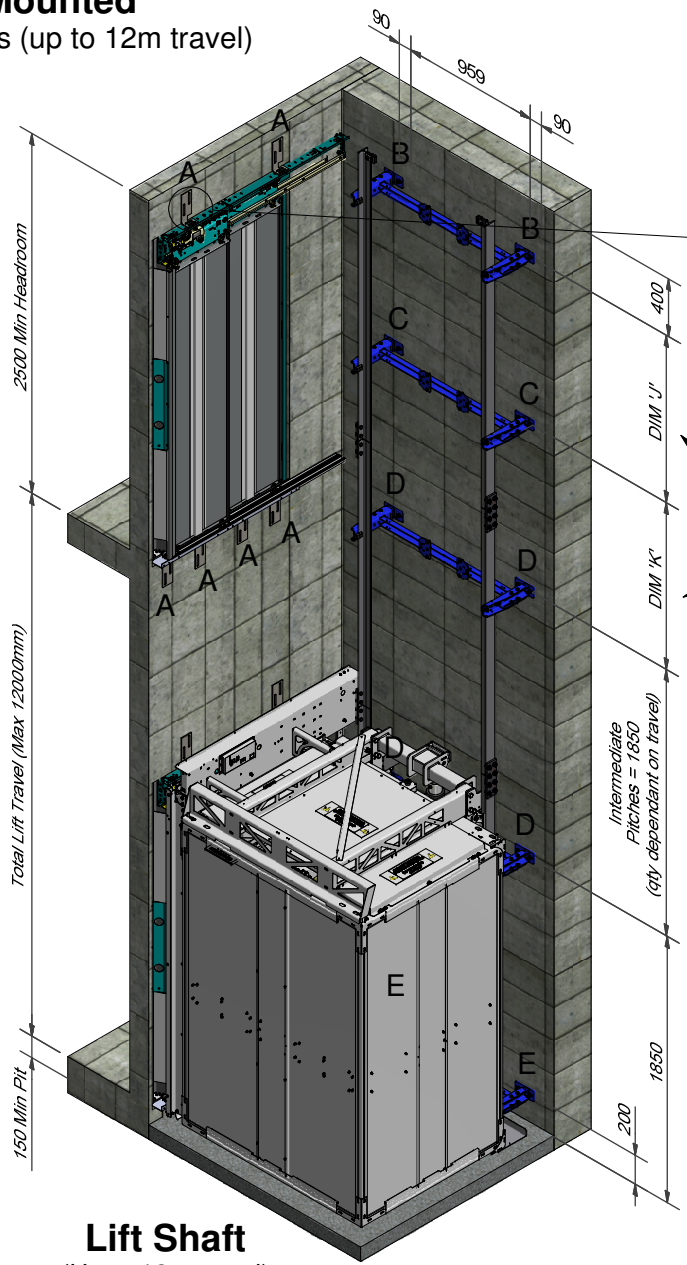
3. Preferably, the lift well should not be situated above a space accessible to persons. If spaces accessible to persons exist below the lift well, then base of the pit shall be designed for an imposed load of 5kN/m^2.

4. It shall be the customer's responsibility to ensure suitability of the building structure for the applied loads, both in terms of strength, & also suitability of the fixings proposed. If any doubts exist, it is advised that a structural engineer is consulted.

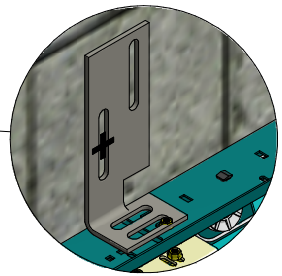
5. All dimensions in mm unless otherwise stated.



Lift Pit
(150mm deep)



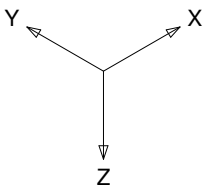
Lift Shaft
(Up to 12m travel)



Detail View
'A' fixings typical in 6 positions per door frame (Loading directions are relative to door orientation)

Dimensions J & K must be equal & be ≤1850mm (minimum value = 925mm)

Positive Axes



Waiver
The data sheet is for guidance only & must not be used for proper working drawings. Please contact us for particular details before proceeding. Owing to our policy of continual improvement, we reserve the right to alter specifications & dimensions without prior notice.

Information sheet
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09/03/2016