



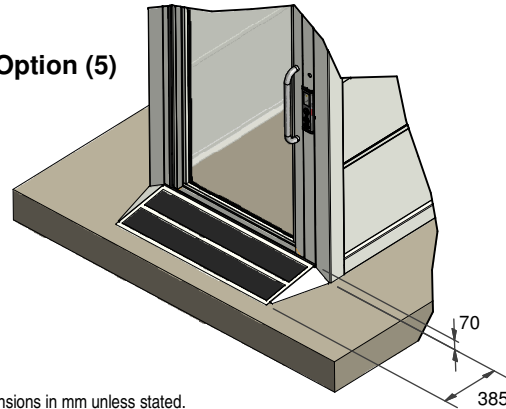
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Midilift SL

Data sheet for lifts with a full height door at the uppermost floor (max. travel 7m, 400kg capacity)
For lifts with a 1/2 height gate at the uppermost floor see separate data sheet.

Stannah

Ramp Option (5)



Notes:

- (1) All dimensions in mm unless stated.
- (2) 2500mm minimum floor to floor is required for entrances above each other on the same side.
- (3) Adjacent entry only available on 1100 x 1400 platform.
- (4) Headroom is dependant upon the travel - please contact us for further information.
- (5) If pit cannot be formed a ramp is available as an optional extra.
- (6) Min. lintel height required for standard door closers = 2150mm. Min. lintel height for a powered fire door closer = 2250mm (add 70mm to either dim if ramp option is being used - this applies only to the lower floor).
- (7) Part M (England & Wales) and section 4.2 of the Technical Handbook (Scotland) compliant.
- (8) Aperture & Footprint dimensions will increase by 10mm on each side when a 60 minute fire door is specified.

Electrical Requirements:

- (9) Provide dedicated single phase supply protected by a 10amp type D MCB. The lift supply is to terminate in a lockable isolator at a position shown on builders work diagram.
- (10) Provide a 13amp electrical outlet socket adjacent to the lift installations at all levels. The supply to these sockets is not to be derived from the lift supply detailed in note 8 above
- (11) Ensure that lighting at all landing levels is not less than 50lux.

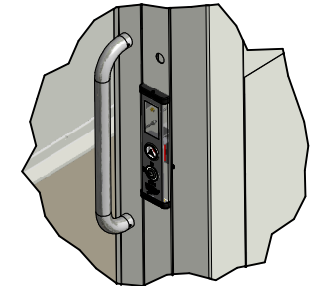
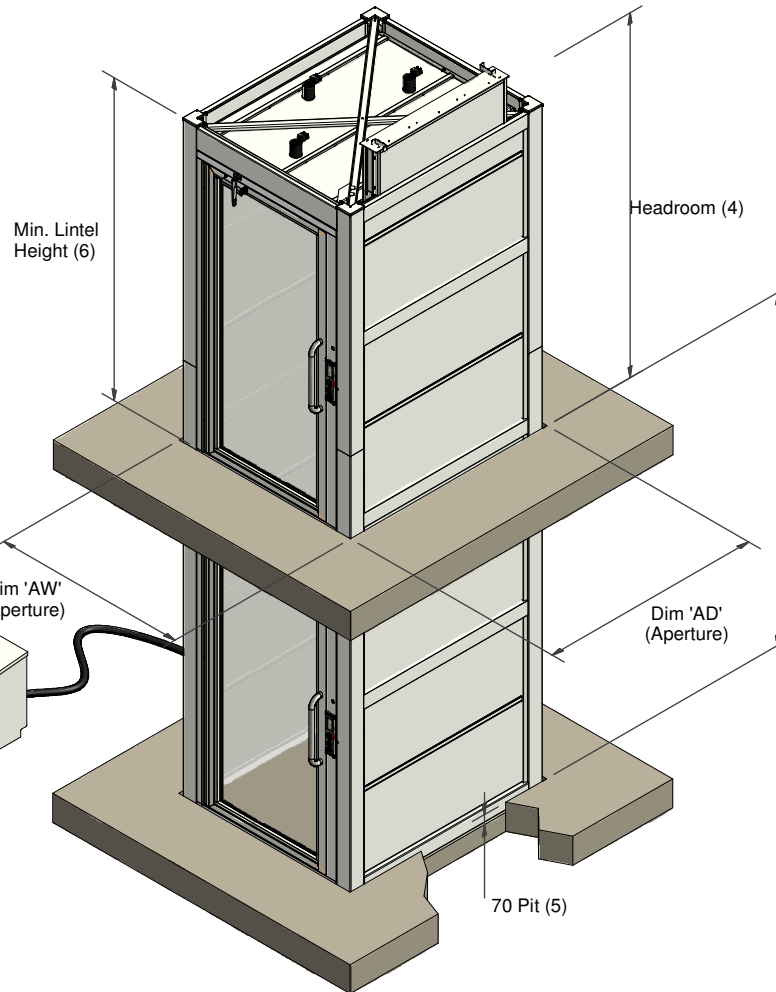
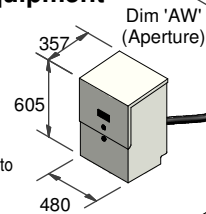
Fixings:

- (12) The lift is fixed to the floor at the base of the enclosure. Fixings are also required at other points, the exact location depends on travel and configuration. Please contact us to discuss further.

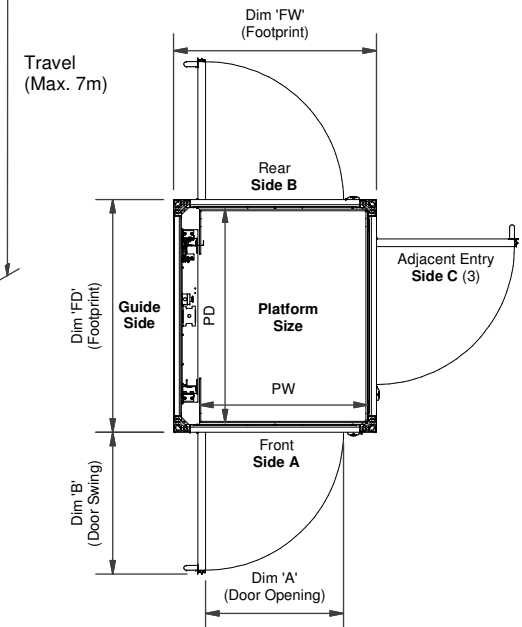
Control Equipment:

- (13) The drive unit and electrical control equipment are housed in a separate enclosure, which should be wall mounted and located within 5m (hose run) away from the base of the lift (guide side).

Control Equipment



Call Station



Platform size (PW x PD)	Door opening		Aperture (+10/-0) (8)		Footprint (8)	
	Dim 'A'	Dim 'B'	Dim 'AW'	Dim 'AD'	Dim 'FW'	Dim 'FD'
950 x 1250	800	910	1240	1440	1209	1406
950 x 1400 (7)	800	910	1240	1560	1209	1526
1100 x 1400 (7)	900	1010	1360	1560	1329	1526

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.

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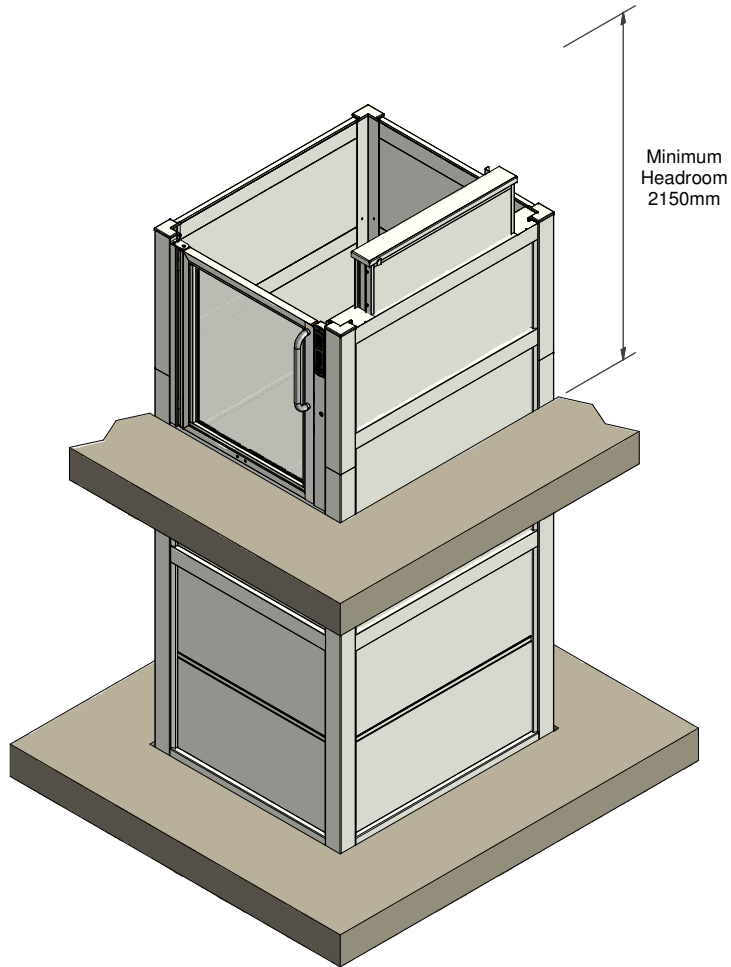
Information sheet
SL 801
14/11/2016



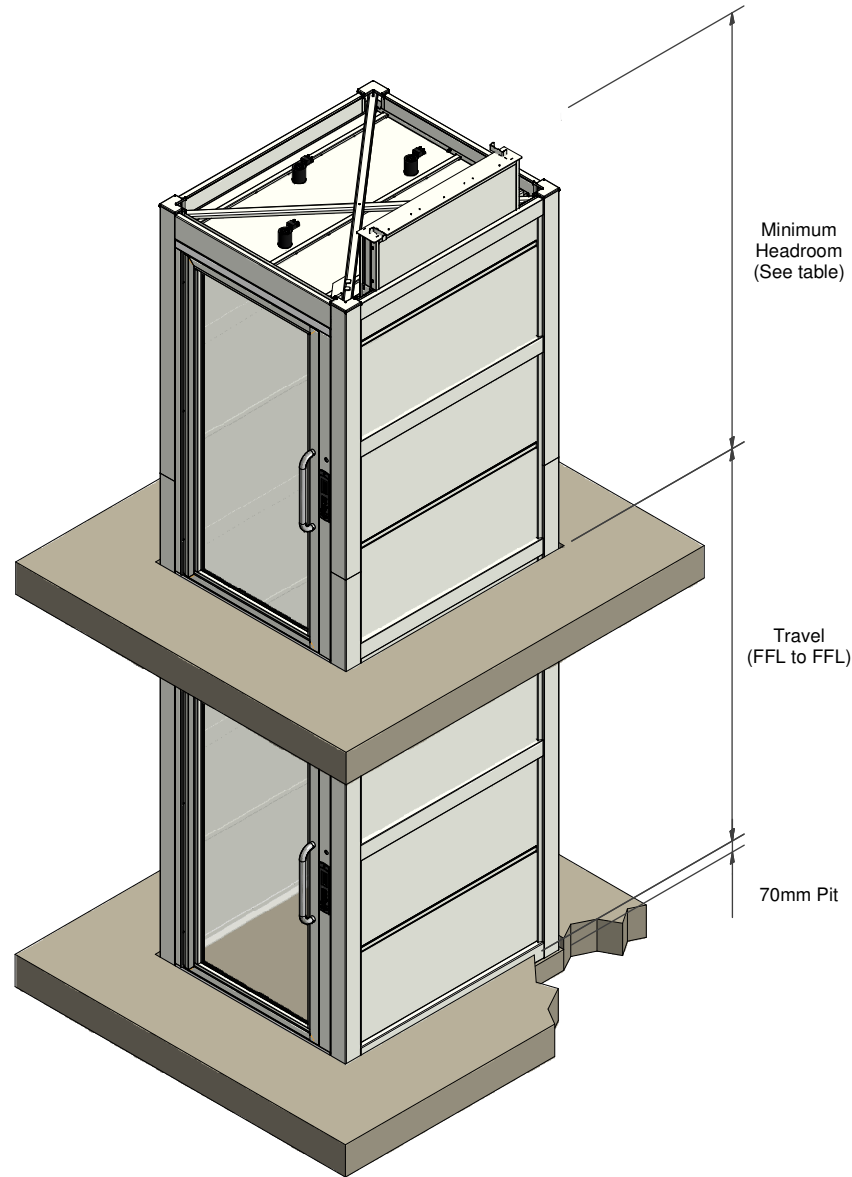
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Midilift GL and SL Headroom

Stannah



Midilift GL
Gate at Upper Level
(travel 300 to 3000mm)



Midilift SL
Door at Upper Level
(travel 300 to 7000mm)

2 Stage Ram with Pit	
Travel (FFL to FFL)	Headroom
300-3330mm	2405mm
3331-3630mm	2532mm
3631-3930mm	2709mm
3931-4230mm	2832mm
4231-4630mm	3032mm
4631-4930mm	3182mm

3 Stage Ram with Pit	
Travel (FFL to FFL)	Headroom
4001-4860mm	2485mm
4861-5360mm	2659mm
5361-5860mm	2838mm
5861-6360mm	2989mm
6361-7000mm	3188mm

Please contact us if a reduced headroom is required

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Information sheet
SL 804
02/11/2016

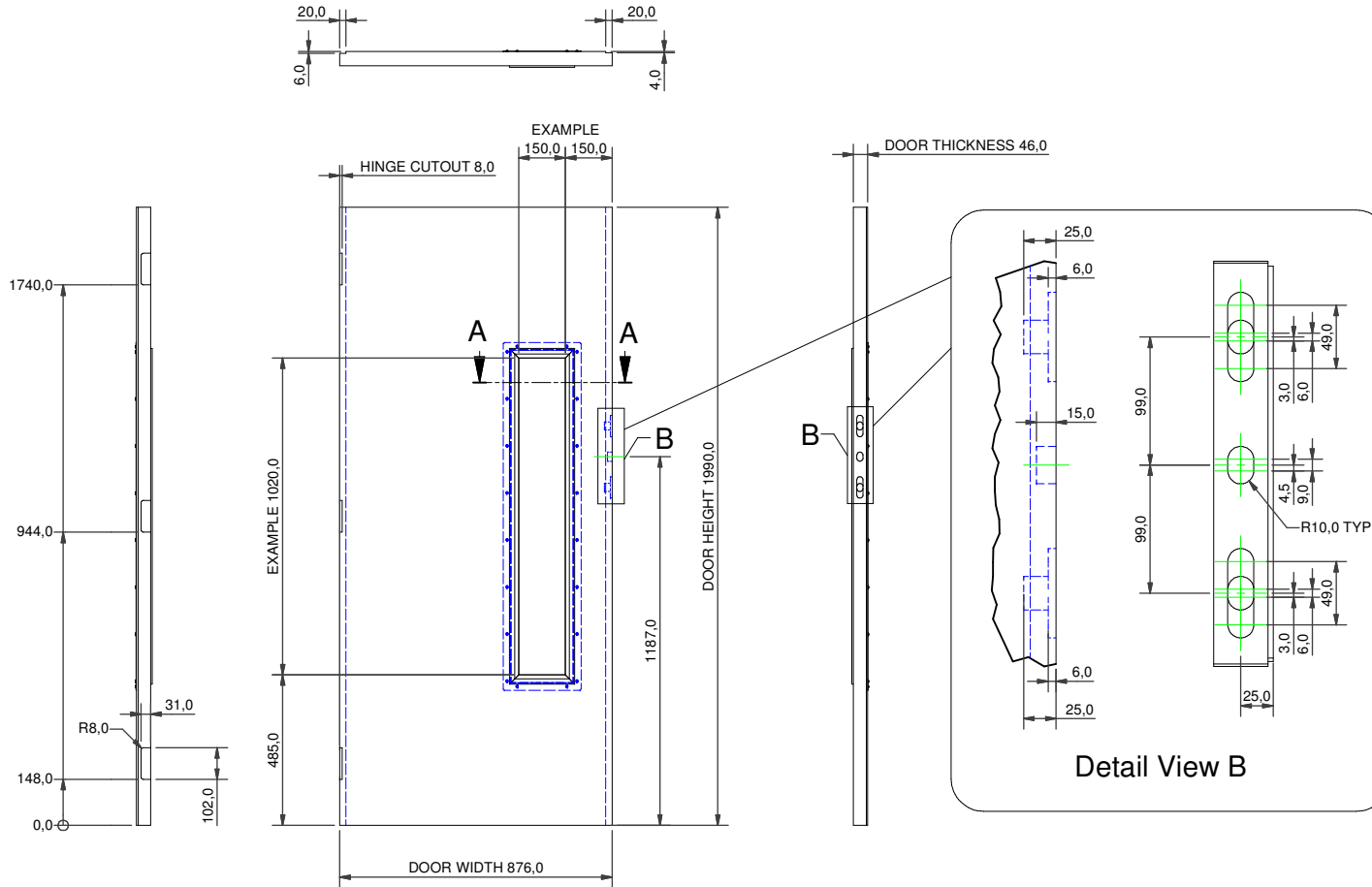


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Midilift SL

Doors by Others - Small Platform

Stannah



Requirements / Notes:

1. Dimensions & Tolerances

- a) All dimension in millimetres
- b) Tolerances, unless stated otherwise: +/-0.25mm

2. Vision panels (when included)

- a) Toughened and laminated glass
- b) Glass thickness: 10.76mm (5 + 5 + 0,76)

3. Door function

- a) To be self-closing
- b) Maximum force to open = 40 N (at the handle)

4. Inner surface

- a) The inside of the landing doors shall form a continuous hard smooth vertical surface.
- b) Any hollows in or projections from internal surfaces of landing doors shall not exceed 5mm and projections exceeding 1,5 mm shall be chamfered to at least 15° to the vertical

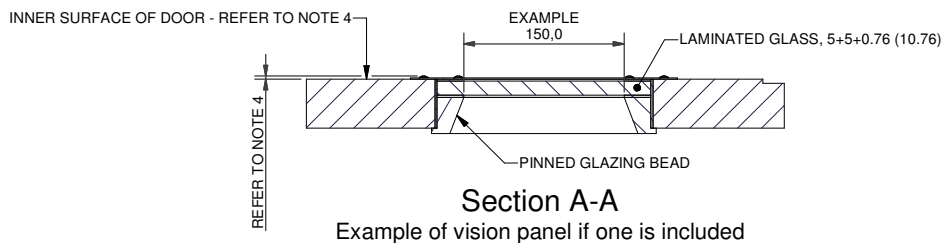
5. Strength of door

Doors, with their locks, shall have a mechanical strength such that in the locked position and when a force of 300 N, being evenly distributed over an area of 5 cm² in round or square section, is applied at right angles to the panel at any point on either face they shall:

- a) resist without permanent deformation;
- b) resist without elastic deformation greater than 15 mm;
- c) during and after such a test the safety function of the door shall not be affected;
- d) strength to be tested prior to placing the lift onto the market.

6. Mass of door

Maximum mass of door = 80kg



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Information sheet
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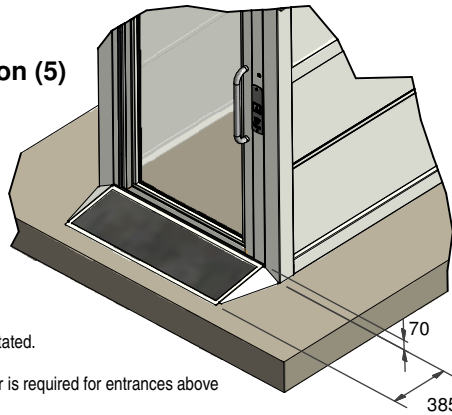
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External Midilift SL

Data sheet for lifts with a full height door at the uppermost floor (max. travel 7m, 400kg capacity)
For lifts with a 1/2 height gate at the uppermost floor see separate data sheet.

Stannah

Ramp Option (5)



Notes:

- (1) All dimensions in mm unless stated.
- (2) 2500mm minimum floor to floor is required for entrances above each other on the same side.
- (3) The lift pit must be provided with adequate drainage.
- (4) Headroom is dependant upon the travel - please contact us for further information.
- (5) If pit cannot be formed a ramp is available as an optional extra.
- (6) Min. lintel height required for standard door closers = 2150mm. Add 70mm to dim if ramp option is being used - this applies only to the lower floor.
- (7) Part M (England & Wales) and section 4.2 of the Technical Handbook (Scotland) compliant.
- (8) Aperture & Footprint dimensions will increase by 10mm on each side when a 60 minute fire door is specified.

Electrical Requirements:

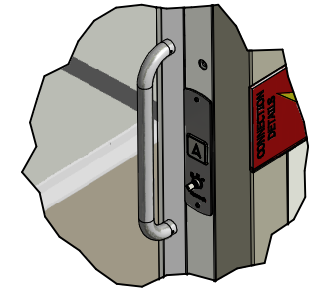
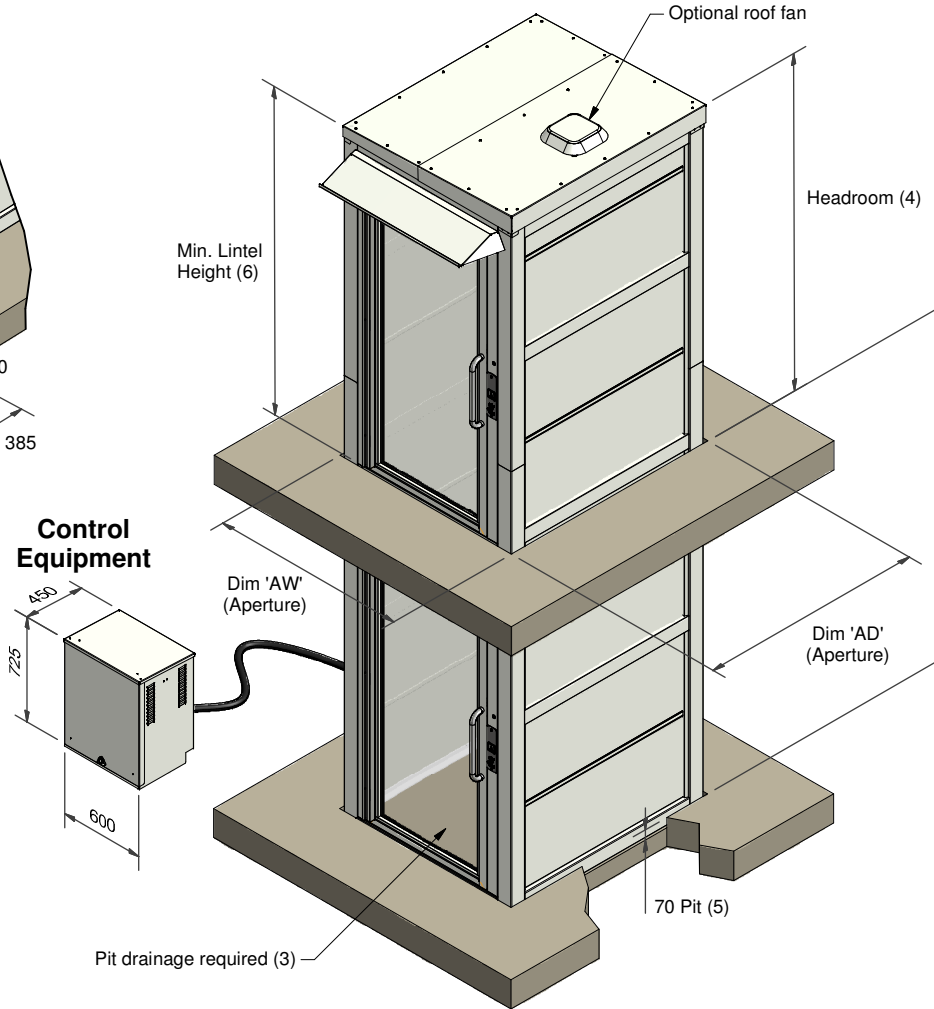
- (9) Provide a dedicated single phase supply protected by a 13amp type D MCB and 30mA RCD. The lift supply is to terminate in a lockable isolator at a position shown on builders work diagram.
- (10) Tank oil heater supply - Provide a 3amp switch spur adjacent to pump unit installation. The supply to this spur is not to be derived from lift supply detailed in note 8.
- (11) Provide a 13amp electrical outlet socket adjacent to the lift installations at all levels. The supply to these sockets is not to be derived from the lift supply detailed in note 8 above
- (12) Ensure that lighting at all landing levels is not less than 50lux.

Fixings:

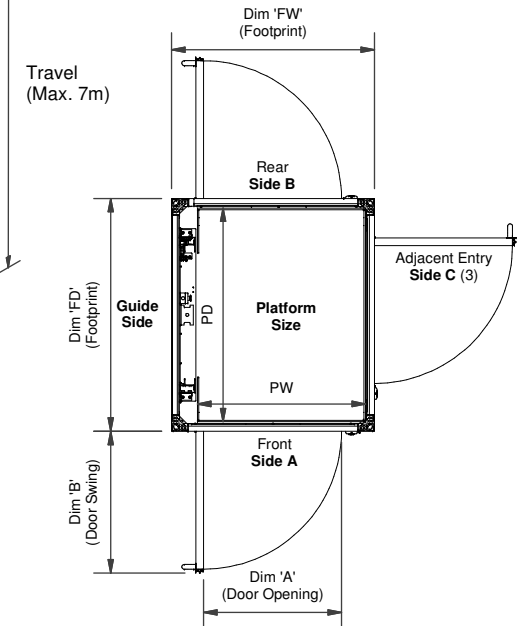
- (13) The lift is fixed to the floor at the base of the enclosure. Fixings are also required at other points, the exact location depends on travel and configuration. Please contact us to discuss further.

Control Equipment:

- (14) The drive unit and electrical control equipment are housed in a separate enclosure, which should be wall mounted and located within 5m (hose run) away from the base of the lift (guide side).



Call Station



	Door opening		Aperture (+10/-0) (8)		Footprint (8)	
Platform size (PW x PD)	Dim 'A'	Dim 'B'	Dim 'AW'	Dim 'AD'	Dim 'FW'	Dim 'FD'
Standard control - 1100 x 1400 (7)	900	1010	1360	1560	1329	1526
Dual control - 1125 x 1400 (7)	900	1010	1540	1560	1510	1526

Waiver

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Information sheet
SL 811
14/11/2016



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Midilift SL

Loads & Fixings - Lifts with Upper Level Door (2m to 7m Travel)

Stannah

Lift Loads		
Quantity	Value	Comments
A	0.5kN	Door threshold fixing at each entrance, except base level
B	2.2kN	Guide side fixing, top landing level
C	2.8kN	Guide side fixing, mid height between floors, or intermediate landing level
D2	2.1kN	Floor load, at position D, horizontal plane, (shear load in fixing); see also 'D1'
D1	2.5kN	Floor load, at position D, vertical plane, laminate infill panels; see also 'D2'
D1	3.6kN	Floor load, at position D, vertical plane, glass infill panels; see also 'D2'

Notes:

- Details provided apply to indoor applications only, where all specified fixings can be made directly into solid substrate or structural members.
- Loads**
 Loads from the lift occur in horizontal & vertical planes. All values stated in the table are per position indicated in the sketches. All loads stated are for 'worst case' conditions (of load & travel). Where applicable, appropriate load factors have been applied. No 'safety factors' have been applied.
- 2a. Horizontal plane loads**
 Fixings at positions A & B are compulsory and loads can be assumed as push & pull. Fixing C is only required for travel greater than 5m and loads can be assumed as push & pull. A horizontal plane load is also carried in fixings at D - see paragraph 2b. Additionally, fixings at A, B (and C when required) are subject to a shear load, maximum 0.5kN per position.

 Minimum pitch between guide side fixings (B to C & C to D) to be 2.1m.
- 2b. Vertical plane loads**
 Fixings at D are compulsory. Fixings at D are made (vertically) into floor & are subject to a shear load D2, as well as a vertical load D1. Loads D1 are point loads due to structure weight. Additional vertical plane loads are applied at: base of the ram (1 position), guides (2 positions) & 4 positions under lift platform buffers (marked *). Each of these 7 loads can be taken as point loads. Refer to sketch 'Lift base' & table.
- It shall be the customer's responsibility to ensure suitability of the building structure for the stated loads, both in terms of strength, & also suitability of the fixings proposed. If any doubts exist, we advise that a structural engineer is consulted.
- Provisions for securing the lift must be flush with the lift aperture and of sufficient thickness/depth to accommodate the appropriate fixing. Exact positions and types of fixings will be detailed on a site specific builders work drawing.

EXAMPLE FIXING TYPES

'A', 'B' & 'C' FIXING POINTS

Concrete:

M10 studding set into Hilti HY70 resin with min. embedment of 90mm.

Timber:

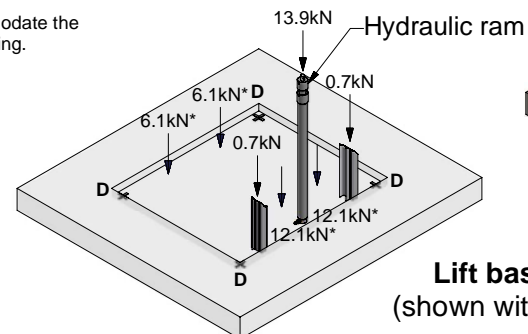
10mm coach screws into timber beam with min. depth 70mm.

Steel:

M10 studding drilled and tapped into a steel plate 8mm thick.

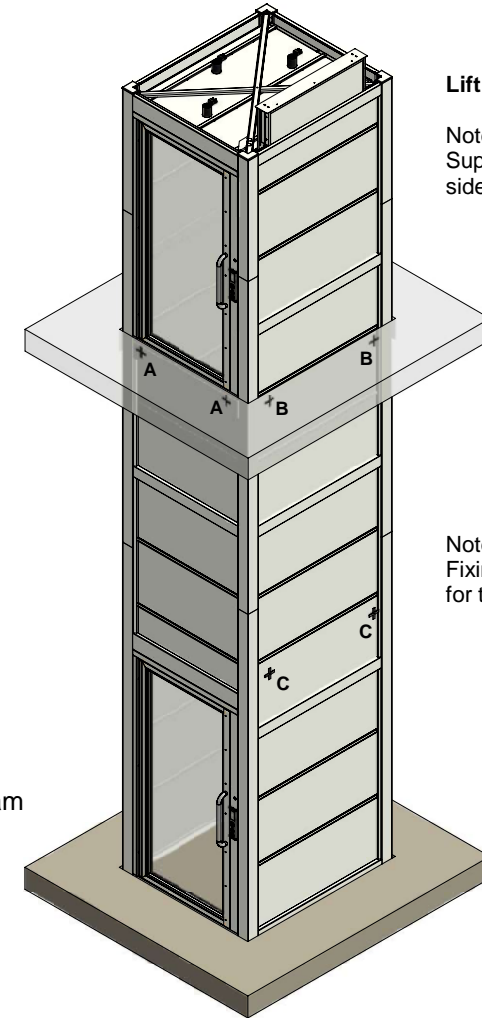
'D' FIXING POINTS

Into concrete using 10mm expandable anchor with min. depth 120mm.



Waiver

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Lift Structure

Note:
Supporting wall on guide side is omitted for clarity.

Note:
Fixing C is only required for travel greater than 5m.

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Information sheet
SL 816
 24/09/2013



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Midilift SL

Loads & Fixings - Lifts with Upper Level Door (Up to 2m Travel)

Stannah

Lift Loads		
Quantity	Value	Comments
A	0.5kN	Door threshold fixing at each entrance, except base level
B	1.7kN	Guide side fixing, top landing level
D2	1.0kN	Floor load, at position D, horizontal plane, (shear load in fixing); see also 'D1'
D1	1.9kN	Floor load, at position D, vertical plane, laminate infill panels; see also 'D2'
D1	3.2kN	Floor load, at position D, vertical plane, glass infill panels; see also 'D2'

Notes:

- Details provided apply to indoor applications only, where all specified fixings can be made directly into solid substrate or structural members.
- Loads**
 Loads from the lift occur in horizontal & vertical planes. All values stated in the table are per position indicated in the sketches. All loads stated are for 'worst case' conditions (of load & travel). Where applicable, appropriate load factors have been applied. No 'safety factors' have been applied.
- 2a. Horizontal plane loads**
 Fixings at positions A & B are compulsory and loads can be assumed as push & pull. A horizontal plane load is also carried in fixings at D - see paragraph 2b. Additionally, fixings at A & B are subject to a shear load, maximum 0.5kN per position.
- 2b. Vertical plane loads**
 Fixings at D are compulsory. Fixings at D are made (vertically) into floor & are subject to a shear load D2, as well as a vertical load D1. Loads D1 are point loads due to structure weight. Additional vertical plane loads are applied at: base of the ram (1 position), guides (2 positions) & 4 positions under lift platform buffers (marked *). Each of these 7 loads can be taken as point loads. Refer to sketch 'Lift base' & table.
- It shall be the customer's responsibility to ensure suitability of the building structure for the stated loads, both in terms of strength, & also suitability of the fixings proposed. If any doubts exist, we advise that a structural engineer is consulted.
- Provisions for securing the lift must be flush with the lift aperture and of sufficient thickness/depth to accommodate the appropriate fixing. Exact positions and types of fixings will be detailed on a site specific builders work drawing.

EXAMPLE FIXING TYPES

'A', 'B' & 'C' FIXING POINTS

Concrete:

M10 studding set into Hilti HY70 resin with min. embedment of 90mm.

Timber:

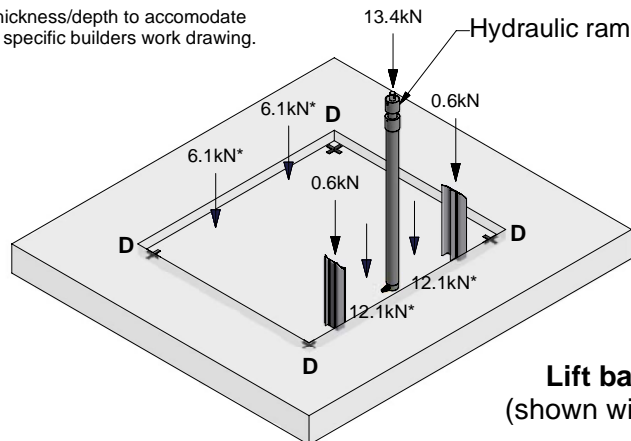
10mm coach screws into timber beam with min. depth 70mm.

Steel:

M10 studding drilled and tapped into a steel plate 8mm thick.

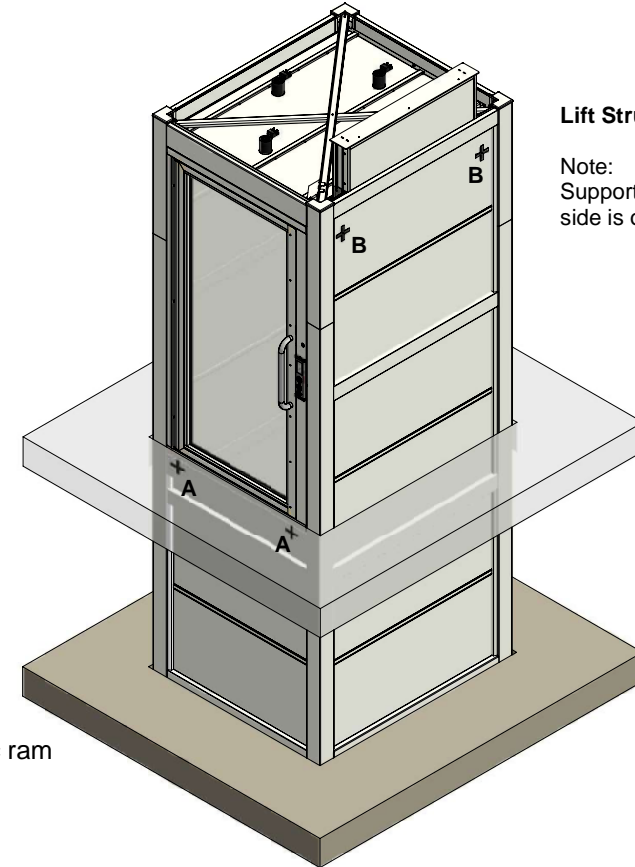
'D' FIXING POINTS

Into concrete using 10mm expandable anchor with min. depth 120mm.



Waiver

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Lift Structure

Note:
Supporting wall on guide side is omitted for clarity

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Information sheet
SL 817
 24/09/2013



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External Midilift SL

Loadings - Lifts with Upper Level Door
(2m to 7m Travel)

Stannah

Lift loads				
Position	FX (kN)	FY (kN)	FZ (kN)	MY (kN.m)
A	0.6	2.4	3.2	0
B	4.6	7.3	4.5	1.66
D	1.2	3.6 (Note 3)	0.8	0

Notes:

1. Details provided apply to external applications where all specified fixings shall be made directly into solid substrate or structural members.

2. Loads

It is the customer's responsibility to ensure suitability of the building structure for the stated 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.

Loads from the lift occur as stated in the table & in sketch 'Lift Base'. All loads stated in the table occur at each position indicated in the sketch 'Lift Structure'. All loads stated are for 'worst case' conditions (of load & travel) & wind loading of 25 m/s. Where applicable, appropriate load factors have been applied. No 'safety factors' are included.

2a. Horizontal plane loads

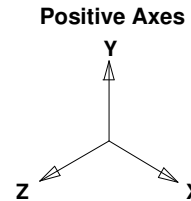
Fixings at positions A, B & D are compulsory. Multiple fixings share the stated loads at B. Forces at A & B apply in push & pull directions & moment MY acts in positive & negative directions about the Y axis (see sketch 'Positive Axes'). Hoop 2 (see sketch 'Lift Structure') is not fitted when overall travel is less than 5m.

2b. Vertical plane loads

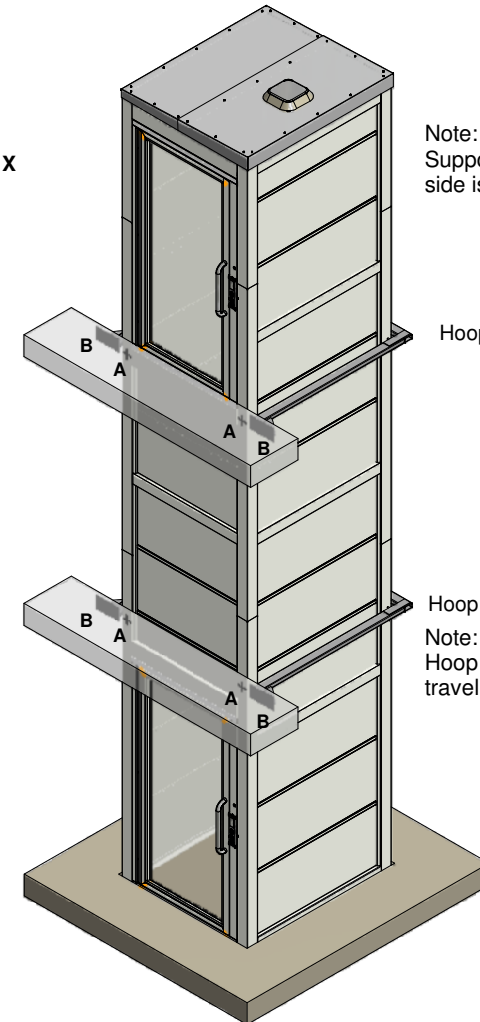
Fixings at D are compulsory. Fixings at D are made (vertically) into floor. Loads FY at D are due to structure weight. Additional vertical plane loads are shown in sketch 'Lift Base'; loads suffixed '*' correspond to contact points under lift platform buffers. All vertical plane loads act in the downward direction only

3. Loads shown are applicable for glass infill panels; this reduces to 2.5kN for laminate infill panels.

4. Suitable structures for reaction of loads A & B are expected to be cast concrete or steelwork only.



Lift Structure



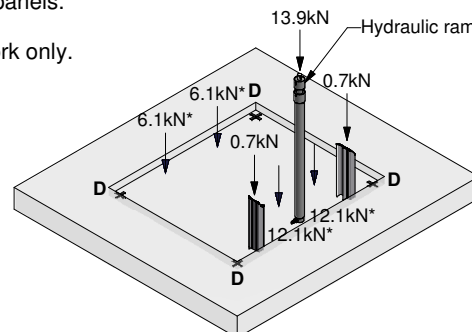
Note:
Supporting wall on entrance side is omitted for clarity.

Hoop 1

Hoop 2

Note:
Hoop 2 not fitted when overall travel is less than 5m.

Lift Base
(shown with pit)



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Information sheet
SL 821
10/08/2016



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External Midilift SL

Loads & Fixings - Lifts with Upper Level Door
(Up to 2m Travel)

Stannah

Lift Loads			
Position	FX (kN)	FY (kN)	FZ (kN)
A	0	0	4.3
B	2.9	0	0.9
D	2.9 (Note 3)	3.3 (Note 4)	3.2 (Note 3)

Notes:

1. Details provided apply to external applications where all specified fixings shall be made directly into solid substrate or structural members.

2. Loads

It shall be the customer's responsibility to ensure suitability of the building structure for the stated 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.

Loads from the lift occur as stated in the table & in sketch 'Lift Base'. Loads A & B stated in the table occur at each position indicated in the sketch 'Lift Structure'. All loads stated are for 'worst case' conditions (of load & travel) & wind loading of 25 m/s is included. Where applicable, appropriate load factors have been applied. No 'safety factors' are included.

2a. Horizontal plane loads

Fixings at positions A, B & D are compulsory. Forces at A & B apply as positive & negative in relevant directions (see sketch 'Positive Axes').

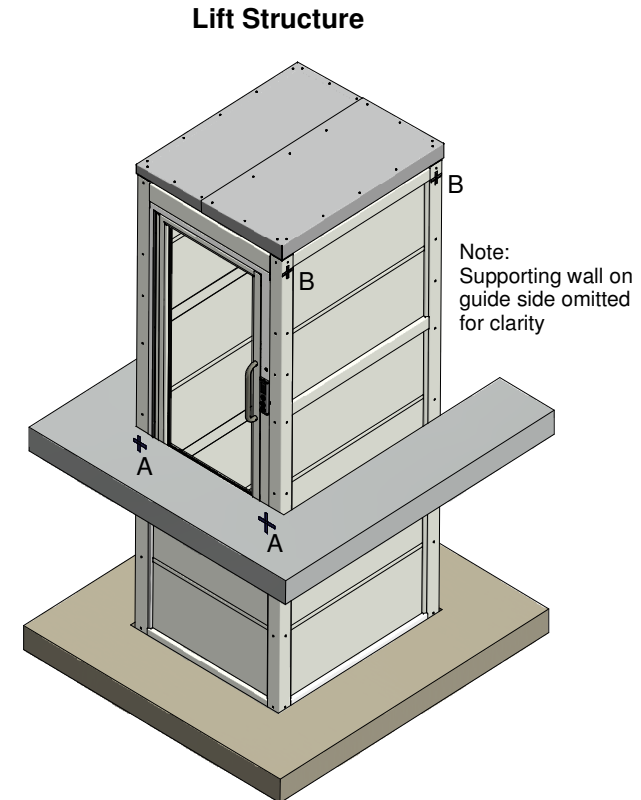
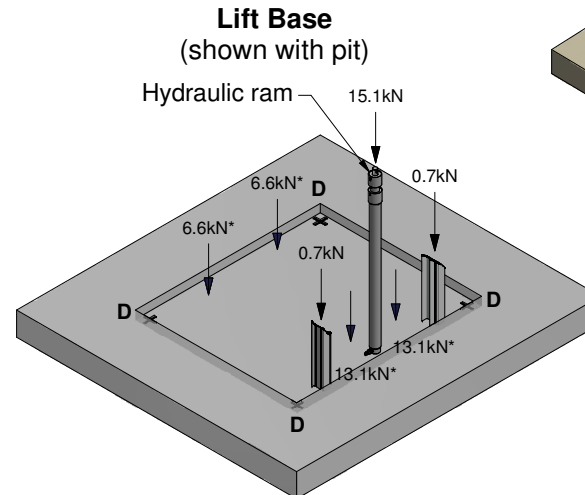
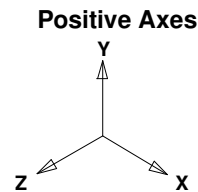
2b. Vertical plane loads

Fixings at D are compulsory. Fixings at D are made into floor (see sketch 'Lift Base') & are subject to loads stated in the table. Loads FY at D are due to structure weight. Additional vertical plane loads are shown in sketch 'Lift Base'; loads suffixed '*' correspond to contact points under lift platform buffers. All vertical plane loads act in the downward direction only & shall be considered as point loads.

3. Combine FX & FZ forces at D to give total shear force in fixing of 4.3kN

4. Loads shown are applicable for glass infill panels; reduces to 2.0kN for laminate infill panels.

5. Suitable structures for reaction of loads A & B are expected to be cast concrete or steelwork only.



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Information sheet
SL 823
24/10/2017