



An independent family business since 1867

# 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

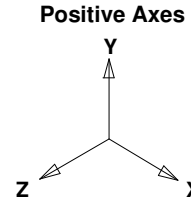
Fixings at positions A, B & D are compulsory. Multiple fixings share the stated loads at B. Forces at A & B apply in push & pull directions & moment MY acts in positive & negative directions about the Y axis (see sketch 'Positive Axes'). Hoop 2 (see sketch 'Lift Structure') is not fitted when overall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

### 2b. Vertical plane loads

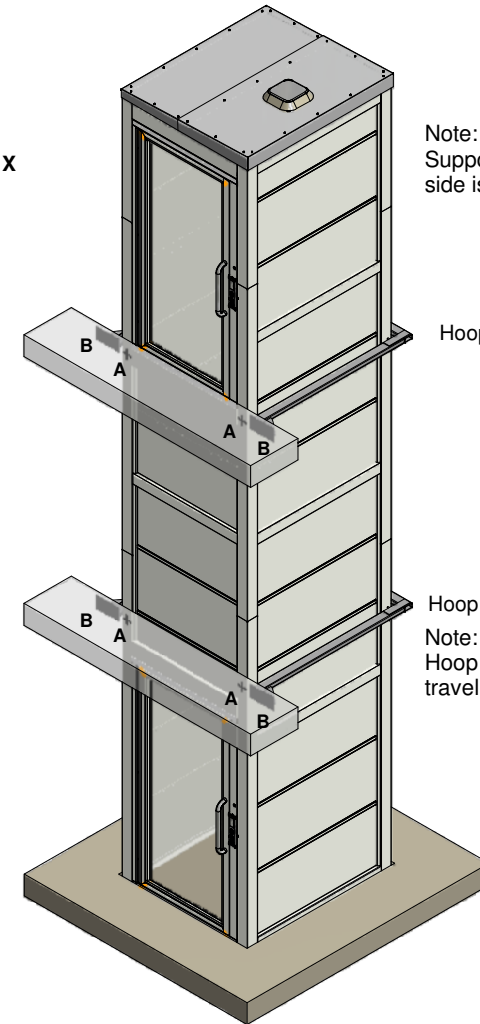
Fixings at D are compulsory. Fixings at D are made (vertically) into floor. Loads FY at D are due to structure weight. Additional vertical plane loads are shown in sketch 'Lift Base'; loads suffixed '\*' correspond to contact points under lift platform buffers. All vertical plane loads act in the downward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



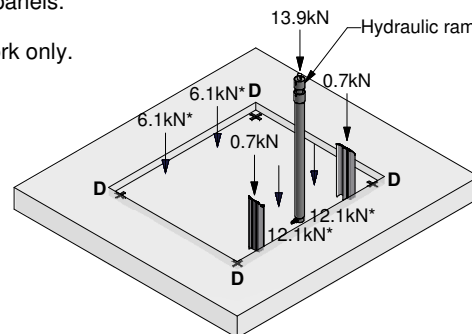
Note:  
Supporting wall on entrance side is omitted for clarity.

Hoop 1

Hoop 2

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

Lift Base  
(shown with pit)



## 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.

**Stannah Lifts Ltd.**  
Anton Mill, Andover,  
Hampshire, SP10 2NX  
Tel: 01264 339090  
www.stannahlifts.co.uk

Information sheet  
**SL 821**  
10/08/2016