

25 Series – Residential Elevator – Specification



25 Series – Residential Elevator – Specification

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25 Series – Residential Elevator – Specification

Introduction

The 25 Series Residential Elevator is either a hydraulically or motor (hoist) driven cantilever platform. The unit is capable of raising a load of up to 255 kg through a maximum of 4.8 m (4.185m as standard) between two floors.

The product is designed in accordance with BS 5900:2012 and Machinery Directive 2006/42/EC, referencing the relevant sections of EN 81-41.

Intended for use in domestic installations by up to two persons standing or a single wheelchair user and carer (850x1250 model).

Suitable for internal domestic environments.

Special consideration has been given to the location, dimensions and available options for controls allowing for safe and unaided use by persons with impaired mobility whether ambulant or in a wheelchair. Controls are provided in the lift car and at both floors making both unattended and attended use possible.

Various keyswitch options are available allowing the lift to be isolated if required so that usage can be limited to authorized individuals.

25 Series – Residential Elevator – Specification

Technical Specification Summary		
	Traction	Hydraulic
Application	Private use by ambulant and wheelchair users	
Lift Safe Working Load	255 kg	255 kg
Trapdoor Safe Working Load	255 kg	255 kg
Cabin Head Height	1800, 1900 or 2000 mm	1800, 1900 or 2000 mm
Minimum Platform (w)x(l)	542mm x 750mm	542mm x 750mm
Minimum Footprint (w)x(l)	790mm x 1098mm	790mm x 1098mm
Maximum Platform (w)x(l)	850mm x 1250mm	850mm x 1250mm
Maximum Footprint (w)x(l)	1098mm x 1598mm	1098mm x 1598mm
Maximum Travel	4.185m (4.8m option)	3.4m
Rated Speed [fast motor]	0.08m/s [0.15m/s]	0.08m/s
Noise dB (1m/5m)	55 / 50	67 / 61
Power Supply	Single phase 240V 50Hz	Single phase 240V 50Hz
Electrical Requirements	Dedicated RCD protected supply	Dedicated RCD protected supply
Low voltage operating system	24VDC Battery driven – do not disconnect from mains for extended periods	24VDC Battery driven – do not disconnect from mains for extended periods
Motor Size [fast motor]	0.75kW [2.2kW]	0.75kW
Duty Cycle	10 cycles/hour	10 cycles/hour
Typical Pump operating pressure	N/A	45 bar
Typical Cylinder operating pressure	N/A	38 bar
Pressure Switch Setting	N/A	38.5 bar
Relief Valve Setting	N/A	60 bar
Hydraulic Oil Grade	N/A	Tellus 32
Operating Temperature Range	+10°C to +40°C	+10°C to +40°C
Safety	Sensitive cap, bottom tray & Trapdoor. Overspeed & brake.	Sensitive cap, bottom tray & Trapdoor. Rupture Valve.
Lifting Mechanism	Rope suspension system	Direct acting hydraulic system
Design & Manufacturing Standard	Machinery Directive 2006/42/EC BS 5900:2012	Machinery Directive 2006/42/EC BS 5900:2012

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Options

Feature	Standard	Option
Drive	Traction	Hydraulic
Load rating	255 kg	
Rated speed	0.08 m/s	0.15 m/s
Cabin height	1900 mm	1800 or 2000 mm
Travel	4.185 m ⁽²⁾	3.4 m ⁽¹⁾
Lift Colour	RAL 7035	Custom
Vision panels	4 mm Acrylic	10 mm Acrylic
Rear side panels	RAL 7042	Custom
Flooring	Grey Anti-slip vinyl	Marble/Oak/Custom
Rail guards	Transparent	
Controls	Remote (radio)	Surface/flush (wired)
Alarm	Yes	
Diagnostic display	4 line LCD	7" colour LCD
LED lighting	White	Colour changing
Door operation	Manual	Powered
Door handrail	Yes	
Cabin handrail	No	With/without controls
Tip-up seat	No	120 kg
Emergency telephone	Yes	Autodialler
1 st Floor Ceiling fix	Yes	Wall fix
Custom finish	No	P.O.R

(1) Hydraulic model

(2) Traction model (4.8m option available)

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Handing



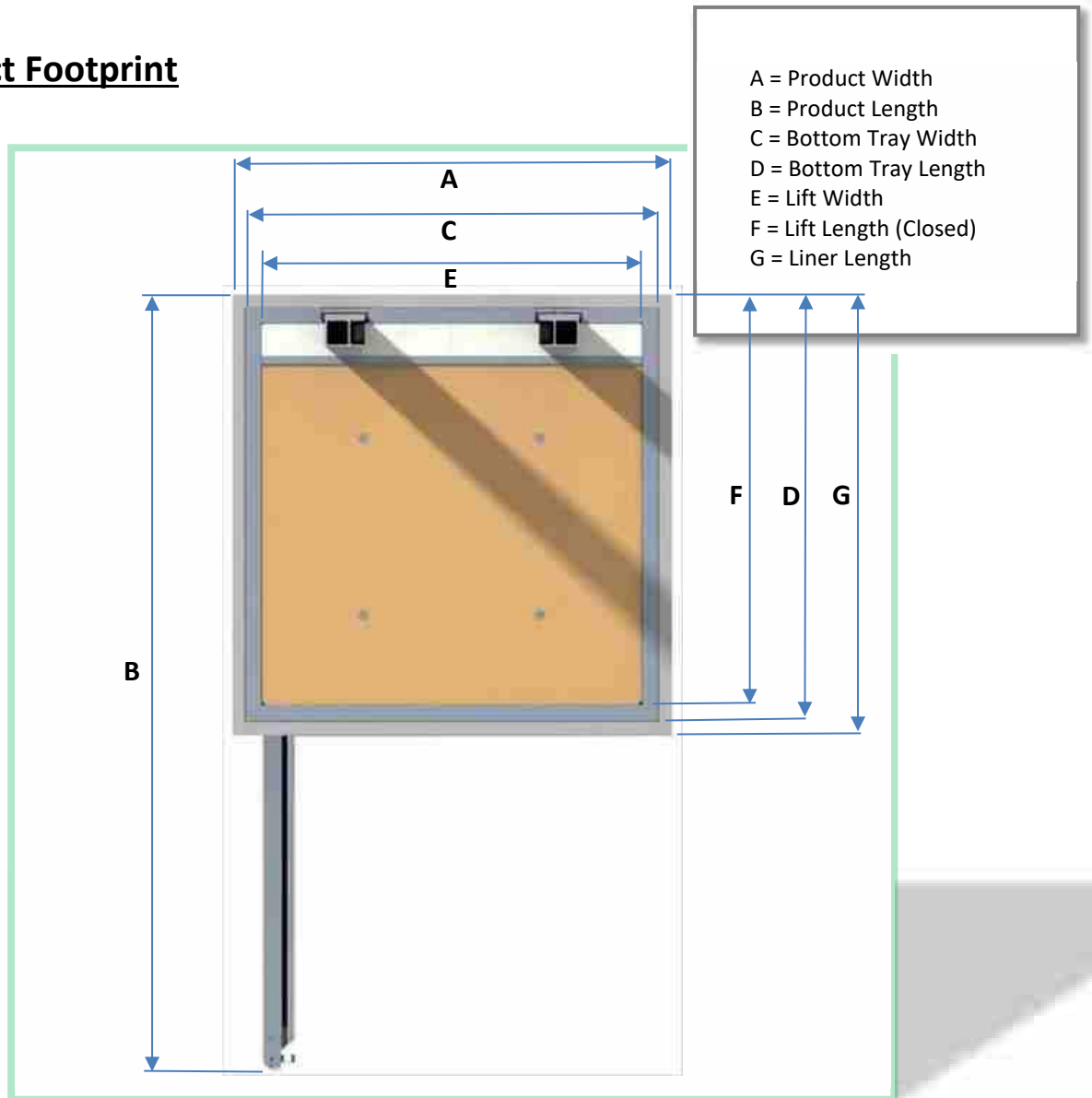
Left Hand



Right Hand

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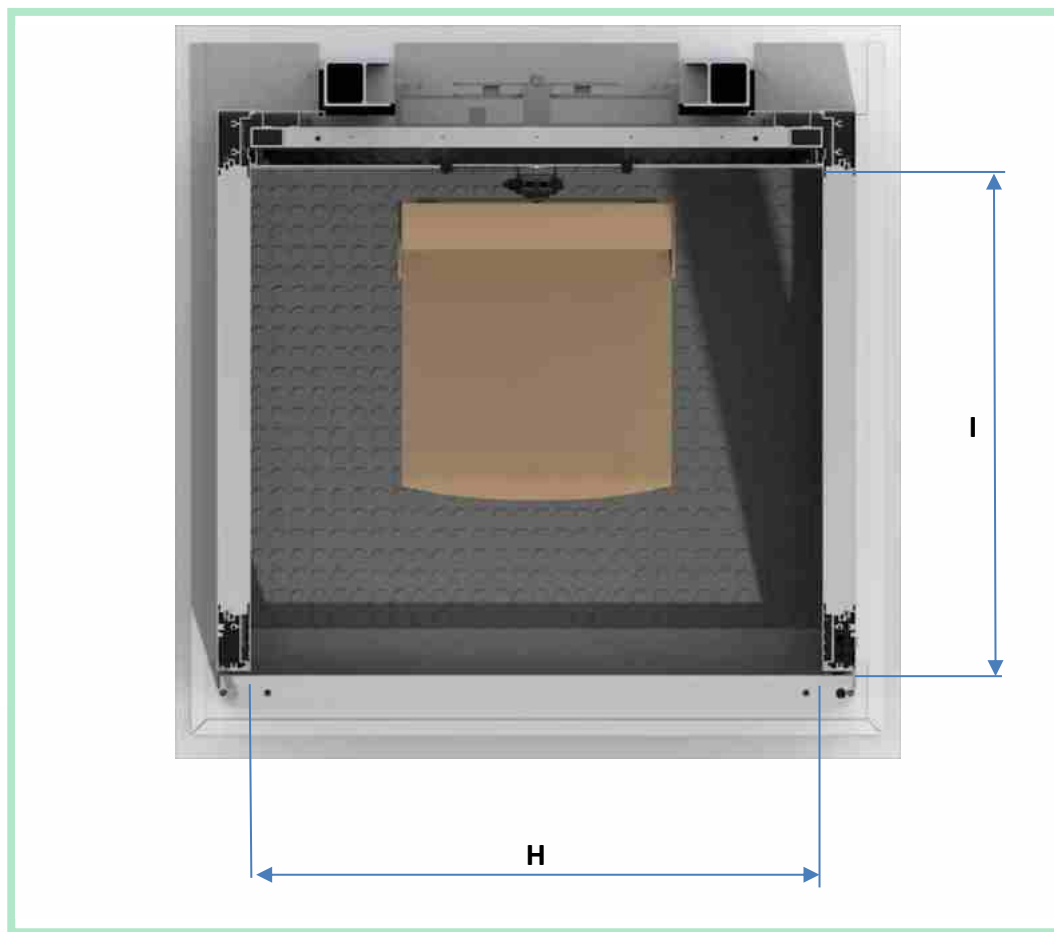
Product Footprint



Dimension >	A	B	C	D	E	F	G
Lift							
542x750	790	1620	720	1063	642	1025	1098
850x750	1098	1928	1028	1063	950	1025	1098
850x1250	1098	2428	1028	1563	950	1525	1598

25 Series – Residential Elevator – Specification

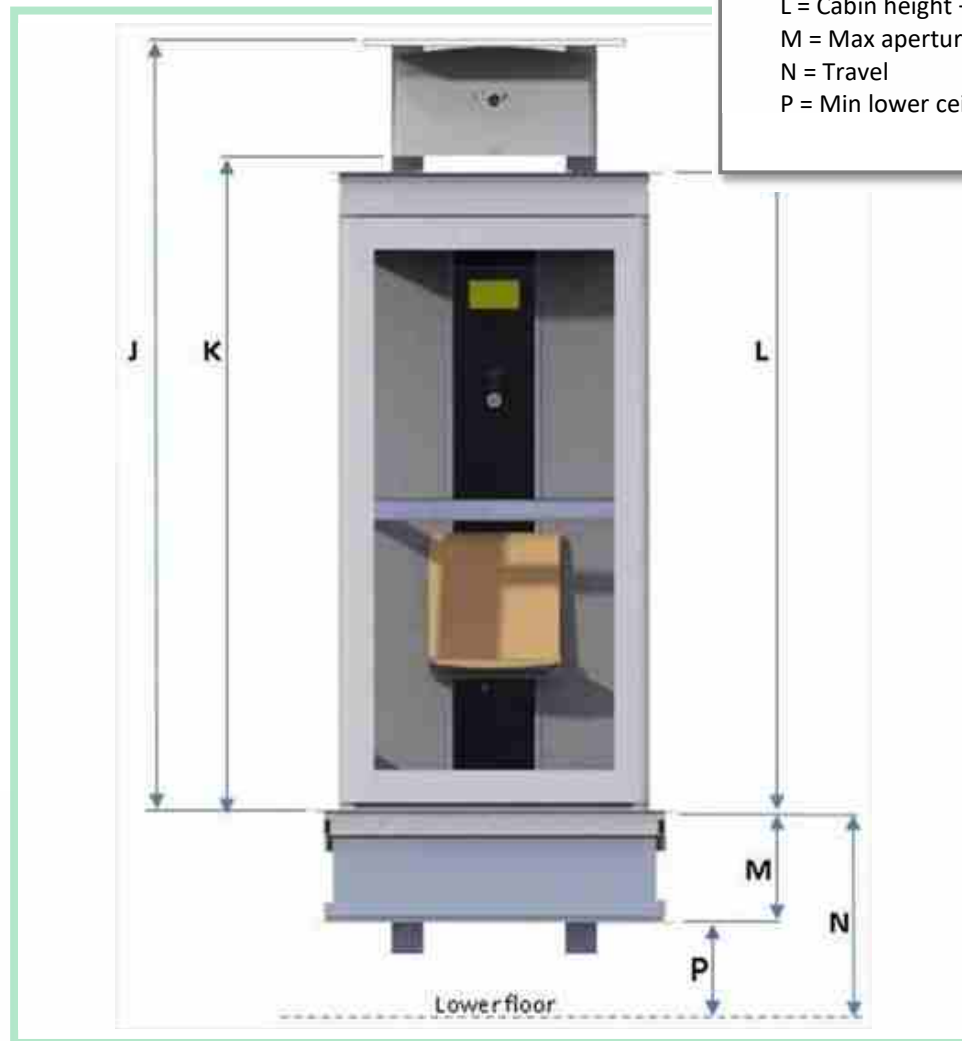
Usable Area



Dimension >		H	I
Lift			
542x750		542	750
850x750		850	750
850x1250		850	1250

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Product Heights



J = Min upper ceiling height
K = Clearance under mount
L = Cabin height + trap
M = Max aperture depth
N = Travel
P = Min lower ceiling height

Dimension >	J ⁽³⁾	K	L	M	N _{min}	N _{max}	P _{min}
Lift							
Traction - 1.8 m cabin	2285/2410	1982	1957	450	2000	4800 ⁽⁵⁾	1850
Traction - 1.9 m cabin	2385/2510	2082	2057	450	2100	4800 ⁽⁵⁾	1950
Traction - 2.0 m cabin	2485/2610	2182	2157	450	2200	4800 ⁽⁵⁾	2050
Hydraulic - 1.8 m cabin	2090	2070 ⁽⁴⁾	1950	450	2000	2930	1850
Hydraulic - 1.9 m cabin	2190	2170 ⁽⁴⁾	2050	450	2100	3090	1950
Hydraulic - 2.0 m cabin	2290	2270 ⁽⁴⁾	2150	450	2200	3390	2050

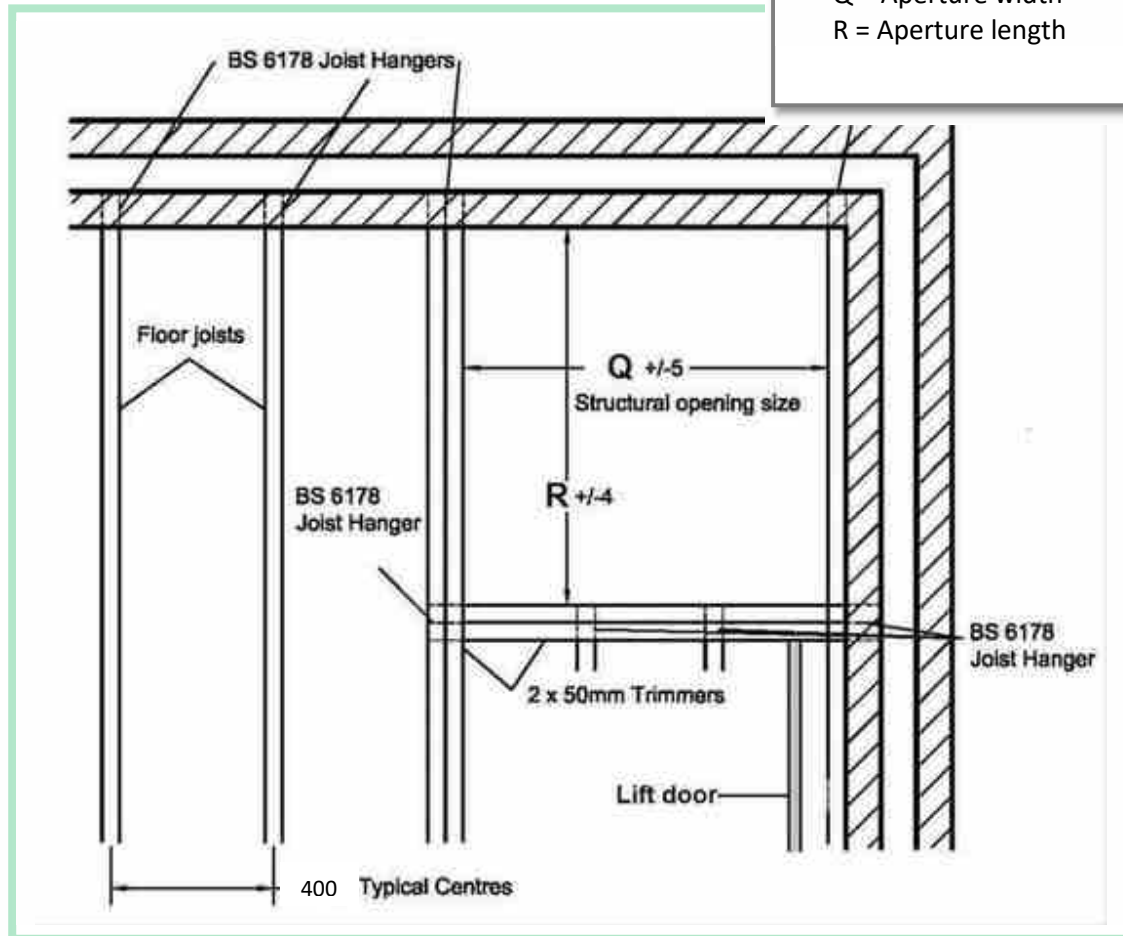
(3) Standard motor = lower value / Fast motor (0.15m/s) = higher value

(4) Measured to underside of spreader board

(5) 4185 mm as standard

25 Series – Residential Elevator – Specification

Aperture Size

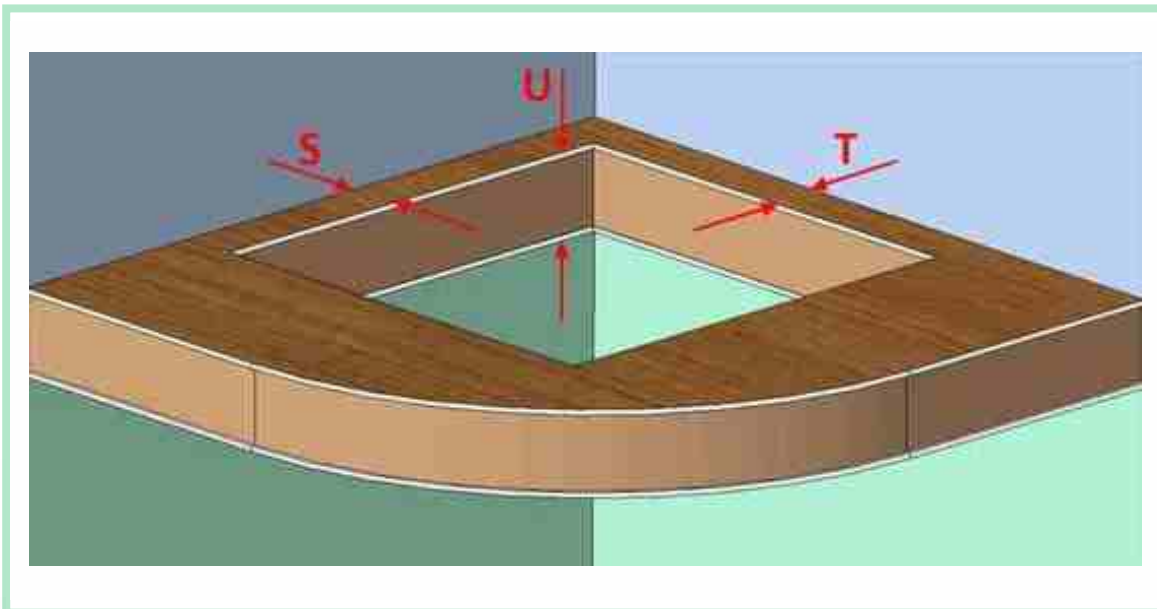


Dimension >	Q	R (Traction)	R (Hydraulic)
Lift			
542x750	755	1085	1125
850x750	1062	1085	1125
850x1250	1062	1585	1625

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Installed Clearances (aperture position)

S = Min clearance to side wall
T = Min clearance to rear wall
U = Aperture depth



Dimension >	S	T	U _{min} ⁽⁶⁾	U _{max} ⁽⁷⁾
	(measured from skirting)			
Lift				
Traction	30	0	190	450
Hydraulic	30	40	190	450

(6) Aperture depth will need increased if less than 190mm

(7) Aperture depth will need reduced if greater than 450mm

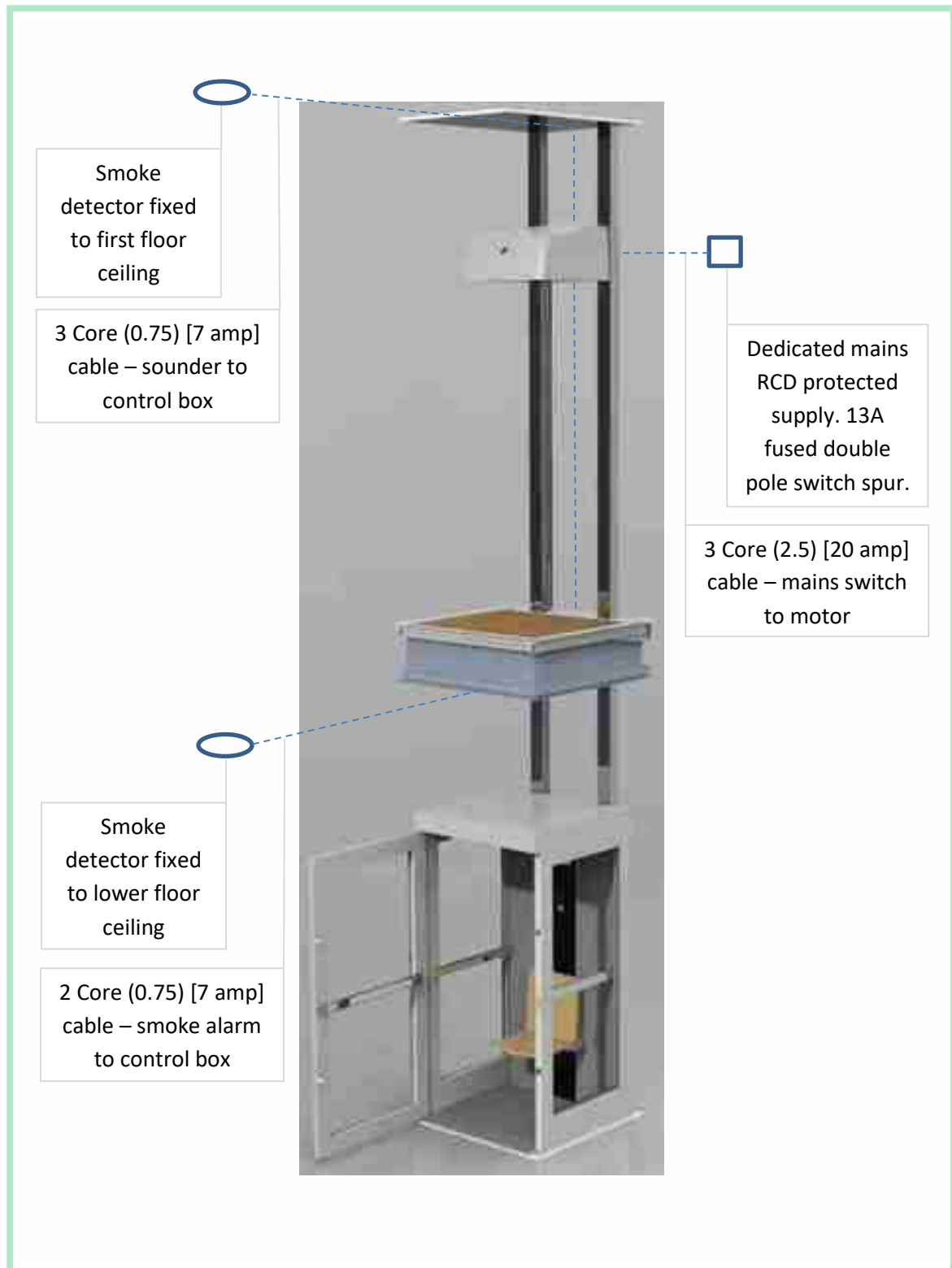
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Maximum Trapdoor Flooring Thickness & Weight

Lift Size/ Type	Trapdoor Type	Max Thickness (mm)	Max Weight (kg)
542x750	MDF	6	5
850X750	MDF	6	5
850x1250	MDF	6	5

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Electrical Ducting



25 Series – Residential Elevator – Specification



Registered Office:
Pollock Lifts, Unit1, Sloefield Drive,
Trooperslane Industrial Park,
Carrickfergus, County Antrim,
BT38 8GX,
Tel: 028 9234 0247
Fax: 028 9234 7846

EC Declaration of Conformity

In accordance with EN ISO 17050-1:2010

We **Pollock Lifts**
of **Unit 1, Sloefield Drive,
Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim
N. Ireland, BT38 8GX**

in accordance with the following Directive(s):

2006/42/EC 2014/53/EU	The Machinery Directive Electromagnetic Compatibility (EMC) Directive
--------------------------	--

Hereby declare that:

Equipment **Pollock Residential Home Lift Serial No. 2518000**

Referenced Standards:
BS EN 81-41:2010
 Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Vertical lifting platforms intended for use by persons with impaired mobility.
ISO 15705-1:2005 Ed 1
 Power-operated lifting platforms for persons with impaired mobility - Rules for safety, dimensions and functional operation. Part 1: Vertical lifting platforms
BS 5500:2012
 Powered hoists with partially enclosed carriers and no lifeway enclosures - Specification

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the requirements of the Directive(s)

Signed by _____

Name: **Saunders Graham**
 Position: **Managing Director**
 Done at: **Carrickfergus**
 On: **dd/mm/2018**

The technical documentation for the machinery is available from:

Name: **Pollock Lifts Ltd.**
 Address: **Unit 1, Sloefield Drive, Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim, N. Ireland, BT38 8GX**

Document Revision History

Issue:	Change No.	Description of Change:	Initials:	Date:
A	-----	Initial Release	PTM	31/10/18
B	CR1069	Release of 1900 cabin	PTM	18/06/19
C	CR1093	Release of 1.9 hydraulic model and 1.8 & 2.0 cabins with compact mounts. Page 2 – 1900 hydraulic option added; fast motor speed & size added. Page 3 – Rated speed row added; 1900 cabin Note (2) removed; Travel 4.2m Note (2) added; Hydraulic travel reduced from 3.5m; Rail guard options removed; 255 kg seat option removed. Page 7 – 1.9m hydraulic row added; N_{max} for 1.8m & 2.0m hydraulic models increased from 2800 & 3200 respectively; 'J' & 'K' reduced by 80mm & 26mm respectively for 1.8m & 2.0m Traction models; 'J' values added for fast motors; Notes (3) & (4) added. Page 8 – table updated to include hydraulic aperture sizes. Page 9 – diagram revised, Dim U added.	PTM	10/08/20
D	CR1173	Pg 7 – minimum lower ceiling height (P_{min}) added. Pg 9 – Notes added.	PTM	16/03/21
E	CR1205	Page 3 - Standard Cabin height 1.9m	TL	23/09/21
F	CR1221	EC Declaration	NJ	09/02/22
G	CR1405	4.8m option added Pg's 1-3; Mirror side panel option removed Pg 3; Traction N_{max} Pg 7 increased to 4800; 4.2m references changed to 4.185m.	PTM	21/11/24
H	CR1416	Product Specifications will be altered to correct the Operating Temperature Range to +10°C to +40°C	NJ	21/02/25

65 Series – 2m/3m Steplift - Specification

2m Steplift



65 Series – 2m/3m Steplift - Specification

3m Steplift



65 Series – 2m/3m Steplift - Specification

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65 Series – 2m/3m Steplift – Specification

Introduction

The 65 Series 2m/3m Steplift is a hydraulically driven cantilever-based platform. The unit is capable of raising a load of up to 500 kg through a maximum of 3 m between two floors.

The product is designed in accordance with BS 6440:2011 and Machinery Directive 2006/42/EC, referencing the relevant sections of EN 81-41.

Intended use for a single person with impaired mobility (including attendant) in both public or domestic installations.

Suitable for internal and external environments.

Special consideration has been given to the location, dimensions and available options for controls allowing for safe and unaided use by person(s) with impaired mobility whether ambulant or in a wheelchair. Controls are provided in the lift car and at both floors making both unattended and attended use (on / off lift) possible.

Various keyswitch options are available allowing the lift to be isolated if required so that usage can be limited to authorized individuals.

65 Series – 2m/3m Steplift – Specification

Summary

Technical Specification Summary				
Location		Internal or external environments		
Usage		Public ⁽²⁾ or domestic use by ambulant and wheelchair users		
Maximum passengers		Wheelchair user plus attendant		
Lift Safe Working Load	kg	500		
Usable Platform (w)x(l)	mm	800 x 1400	900 x 1400	1100 x 1400
Platform Size (w)x(l) ⁽¹⁾	mm	1110 x 1650	1210 x 1650	1410 x 1650
Maximum Travel	m	3.0		
Rated Speed	m/s	0.1		
Noise (@ 1m/5m)	dB	70 / 60		
Power Supply		Single phase 240V 50Hz		
Electrical Requirements		Dedicated RCD protected supply		
Low voltage operating system		24 VDC Battery driven – do not disconnect from mains for extended periods		
Motor Size	kW	0.5		
Duty Cycle		10 cycles/hour		
Pump operating pressure	bar	100 (max)		
Cylinder operating pressure	bar	70		
Pressure Switch Setting	bar	80		
Relief Valve Setting	bar	100		
Hydraulic Oil Grade		Tellus 32		
Operating Range		-10 °C to +40 °C		
Safety		Sensitive bottom tray and ramp, hydraulic restrictor.		
Lifting Mechanism		Direct acting hydraulic cantilever with self-contained power pack		
Design & Manufacturing Standard		BS 6440:2011; EN81-41 (ref. only) Machinery Directive 2006/42/EC		

(1) 1500mm turning circle required at both floors as per Building Regulations

65 Series – 2m/3m Steplift – Specification

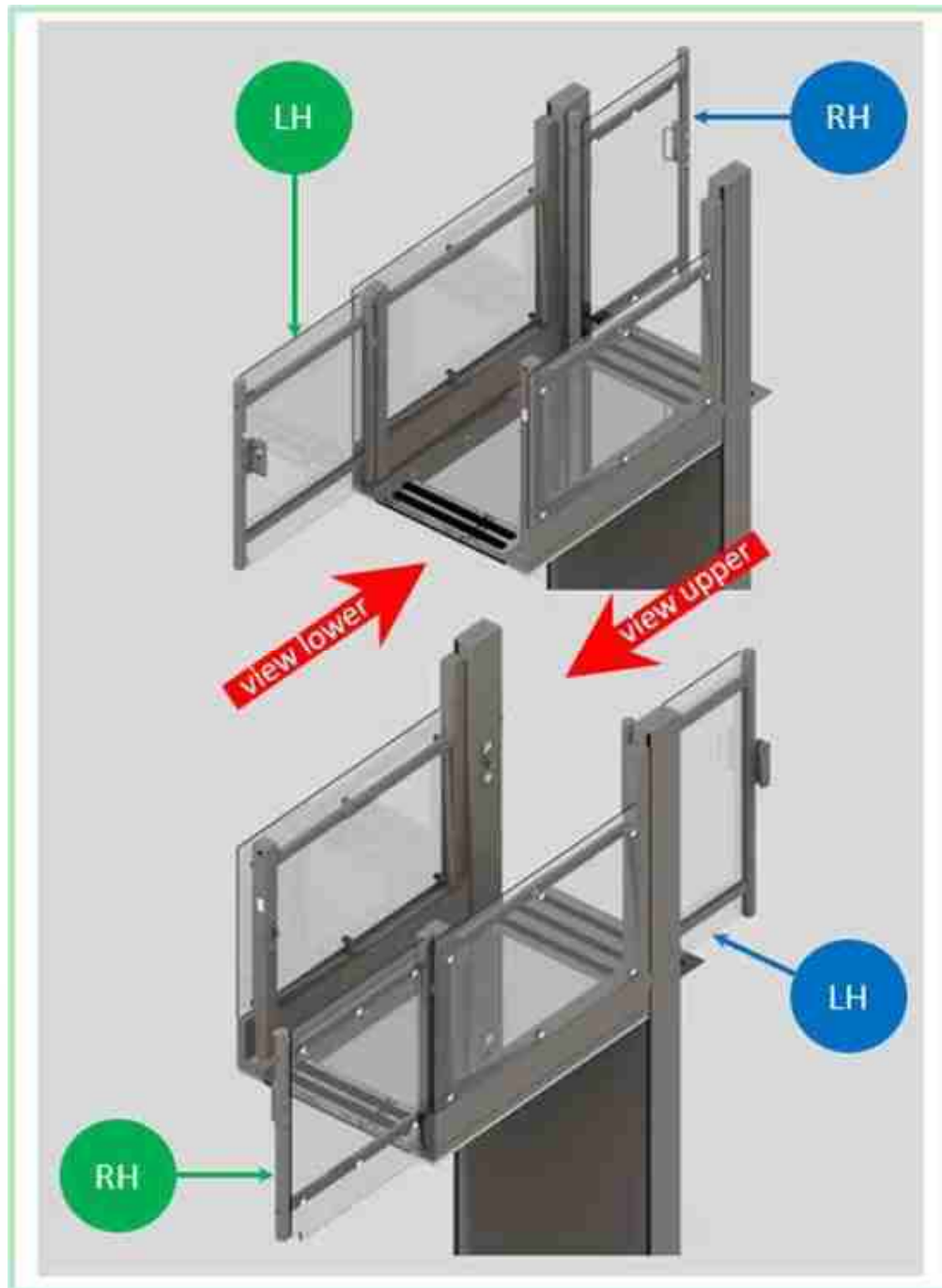
Options

Feature	Standard	Option	Special
Floor mounting	Surface mounted	Pit mounted	
Access	Straight through		
Travel	2m	3m	
Lower gate	X		
Handrails – painted aluminium	X		
Lift panels (10mm Polycarbonate)	X		
Anti-slip flooring (aluminium checker plate)	X	Non-slip vinyl	Prep for 3 rd party flooring
Alarm	X	Arrival chimes	Voice annunciation
Manual gates	X	Powered gates	
Full standard controls	X	Braille controls	
In car controls	Left or right side	Twin	
Autodialler		X ⁽²⁾	
Upper in gate controls	X	Surface or flush mounted	Post mounted
Lower surface mounted controls	X	Flush mounted	Post mounted
Call Post	Square painted aluminium	Square stainless steel	Round stainless steel
Keyswitch isolation	X	Toggle	
Colour RAL 9007	X		Custom

(2) Not available with twin in car controls

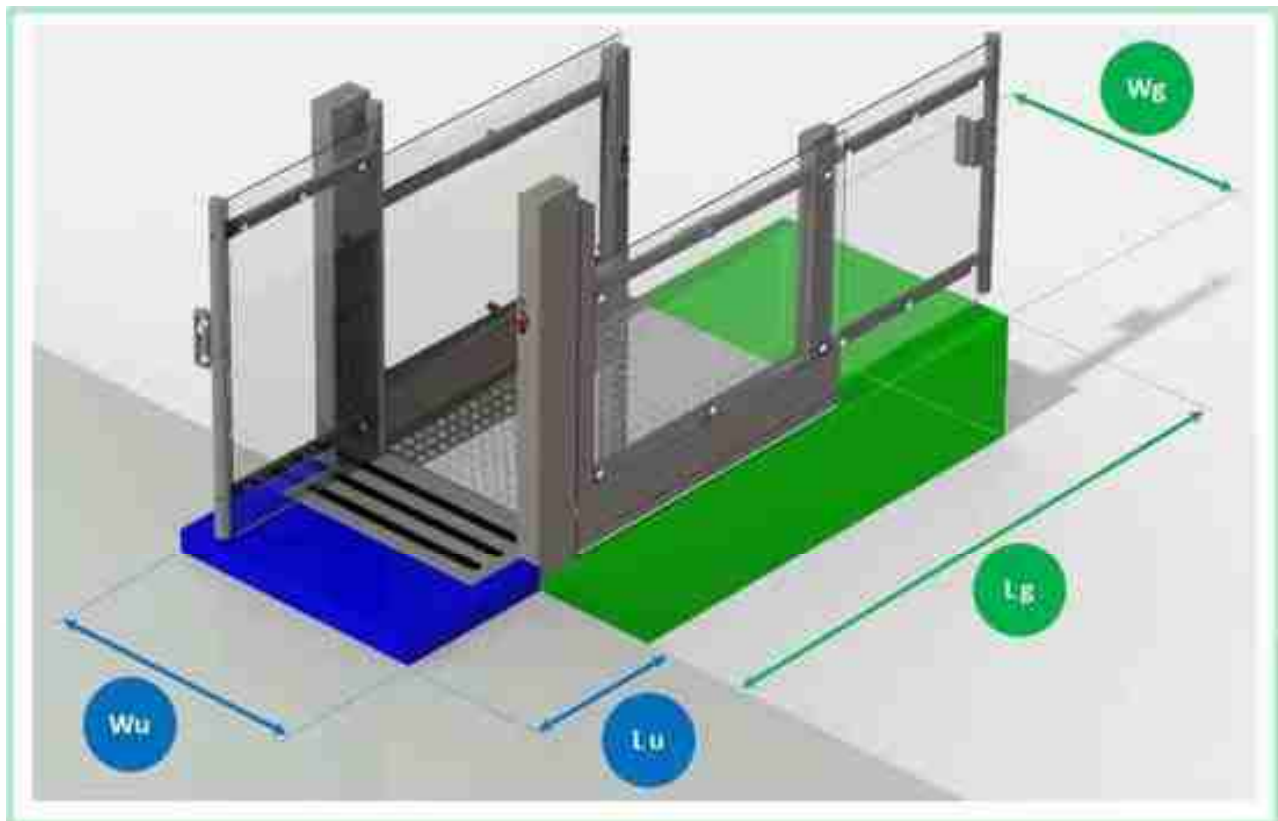
65 Series – 2m/3m Steplift – Specification

Handing



65 Series – 2m/3m Steplift – Specification

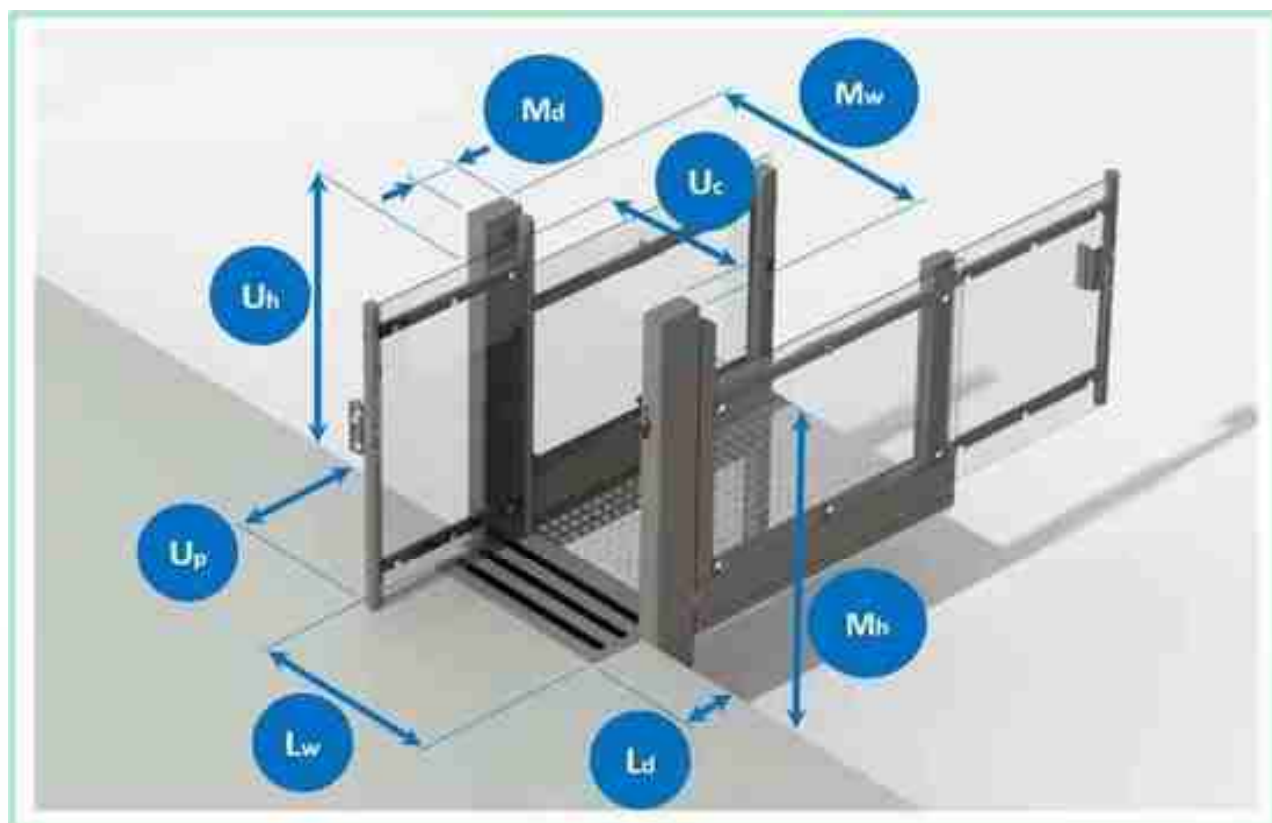
Minimum Product Footprint - Through Entry (10mm side clearances)



Lift Width >	800	900	1100
Dimension			
Wg – (lower site width)	1130	1230	1430
Lg – (lower through length)	2620	2720	2920
Lg – (lower turning length)	3150	3150	3150
Wu – (upper site width)	1130	1230	1430
Lu – (upper through length)	690	790	990
Lu – (upper turning length)	1500	1500	1500

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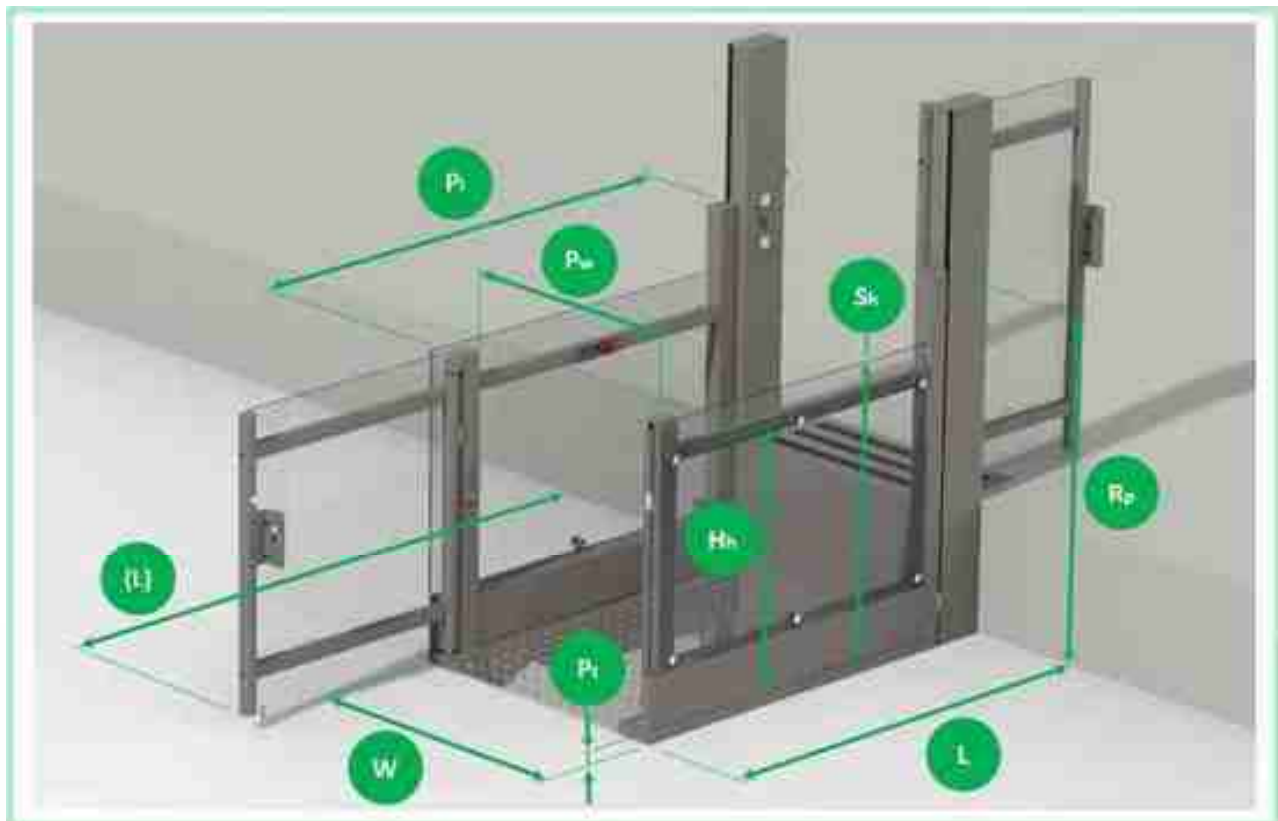
Upper Gate Dimensions



Lift Width >	800	900	1100
Dimension			
Mw – (mast width)	1110	1210	1410
Mh – (mast height) {3m}	1485 {1975}	1485 {1975}	1485 {1975}
Md – (mast depth)	200	200	200
Lw – (landing plate width)	945	1045	1245
Ld – (landing plate depth)	262	262	262
Uc – (upper gate clear width)	800	900	1100
Uh – (upper gate height)	1400	1400	1400
Up – (upper gate projection)	675	775	975

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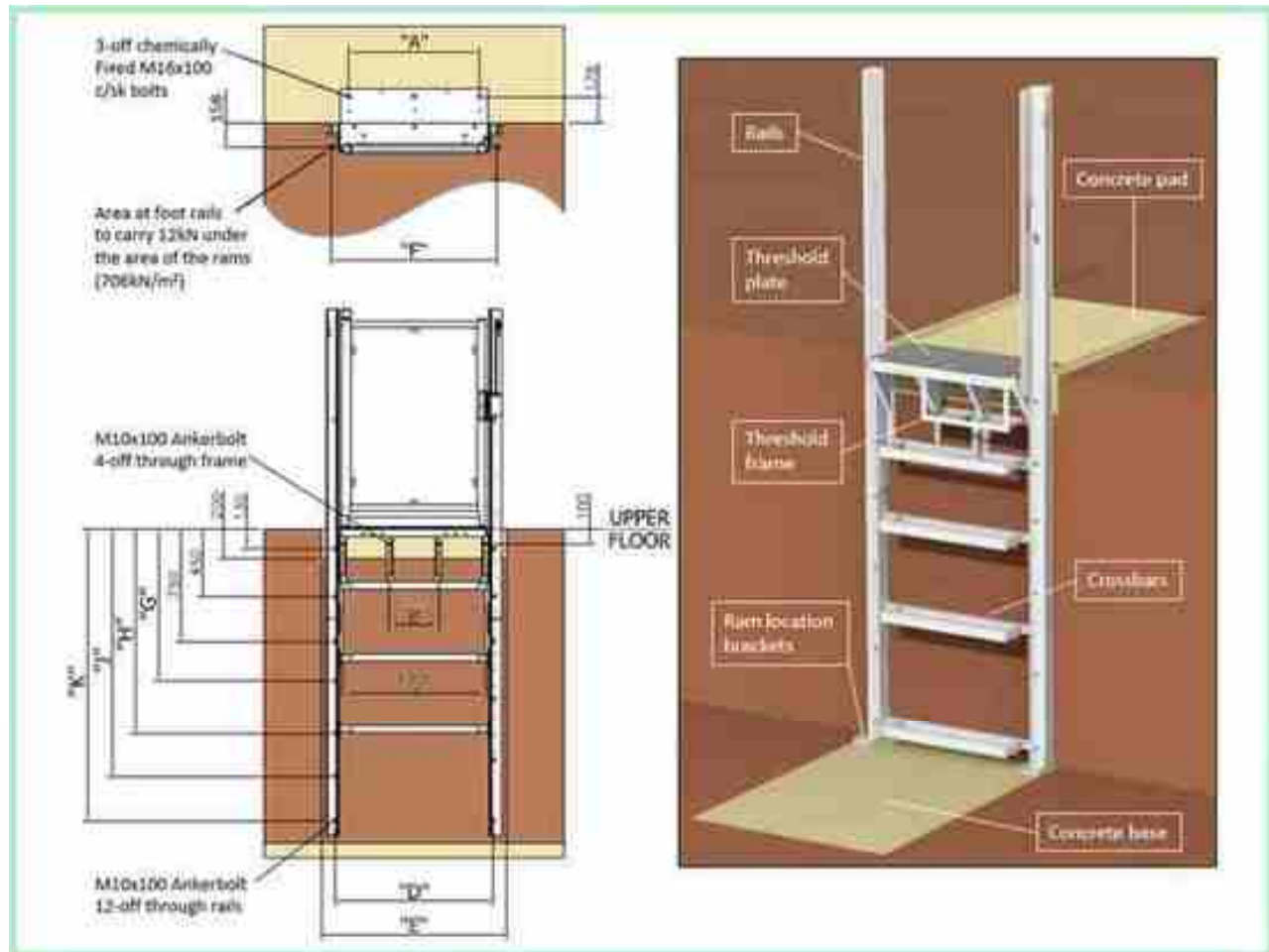
Platform Dimensions



Lift Width >	800	900	1100
Dimension			
W – (product width)	1110	1210	1410
L – (product length) {open}	1650 {2600}	1650 {2700}	1650 {2900}
P_w – (clear platform width)	865	965	1165
P_l – (clear platform length)	1400	1400	1400
P_t – (platform thickness)	50	50	50
S_h – (side height)	1100	1100	1100
H_h – (handrail height to c/l)	965	965	965
R_p – (rear post height) {3m}	1355 {1845}	1355 {1845}	1355 {1845}

65 Series – 2m/3m Steplift – Specification

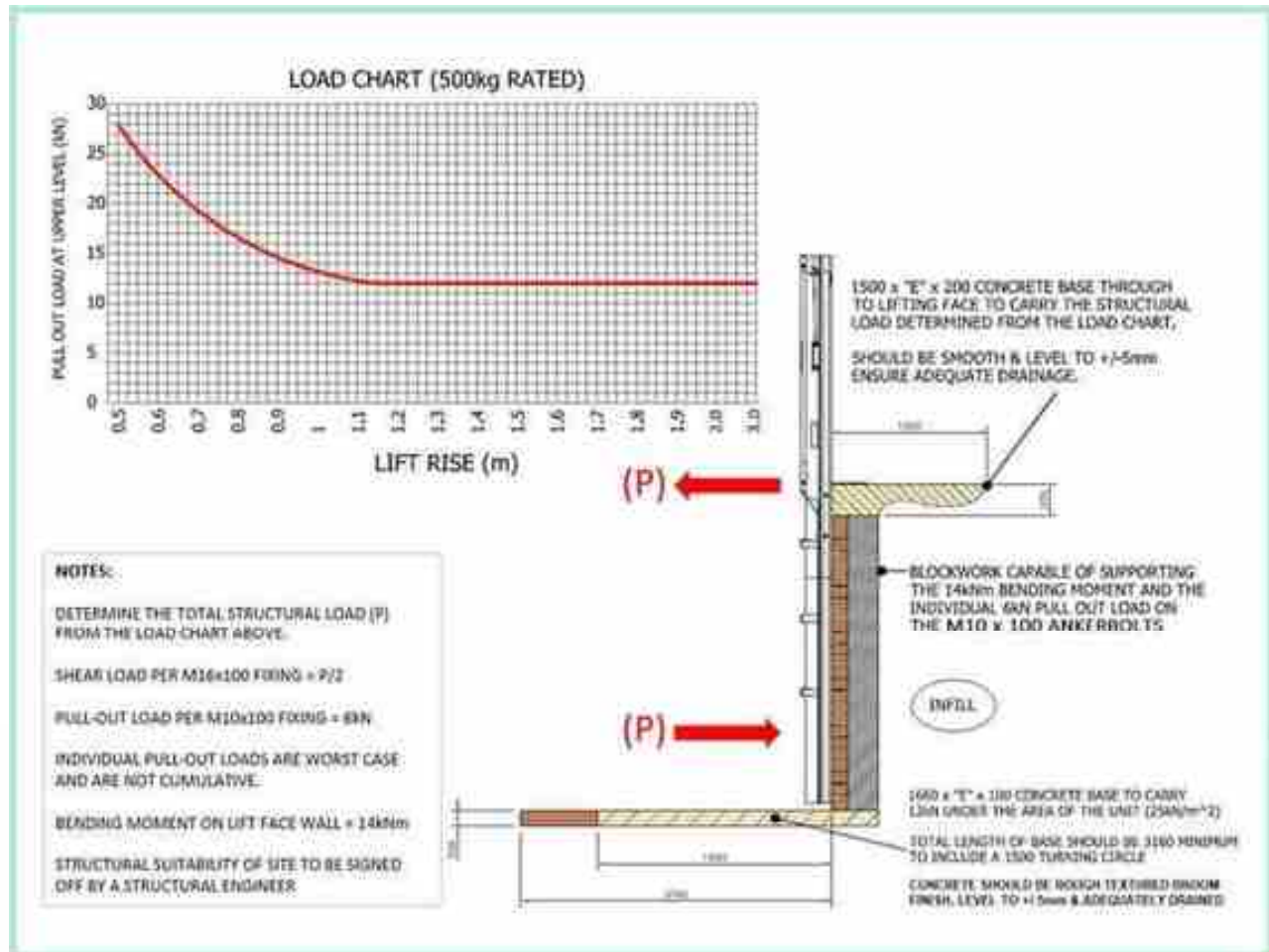
Lift anchorage points



Lift Width >	800	900	1100
Dimension			
A – (plate anchor pitch)	770	870	1070
B – (frame anchor pitch 1)	295	335	395
C – (frame anchor pitch 2)	855	955	1155
D – (rail anchor pitch)	960	1060	1260
E – (min concrete pad width)	1130	1230	1430
F – (hydraulic ram pitch) {3m}	1005 {995}	1105 {1095}	1305 {1295}
G – (rail fixing 4 down) {3m}	1130 {1300}	1130 {1300}	1130 {1300}
H – (rail fixing 5 down) {3m}	1550 {1850}	1550 {1850}	1550 {1850}
J – (rail fixing 6 down) {3m}	1950 {2400}	1950 {2400}	1950 {2400}
K – (rail fixing 7 down) {3m}	N/A {2950}	N/A {2950}	N/A {2950}

65 Series – 2m/3m Steplift – Specification

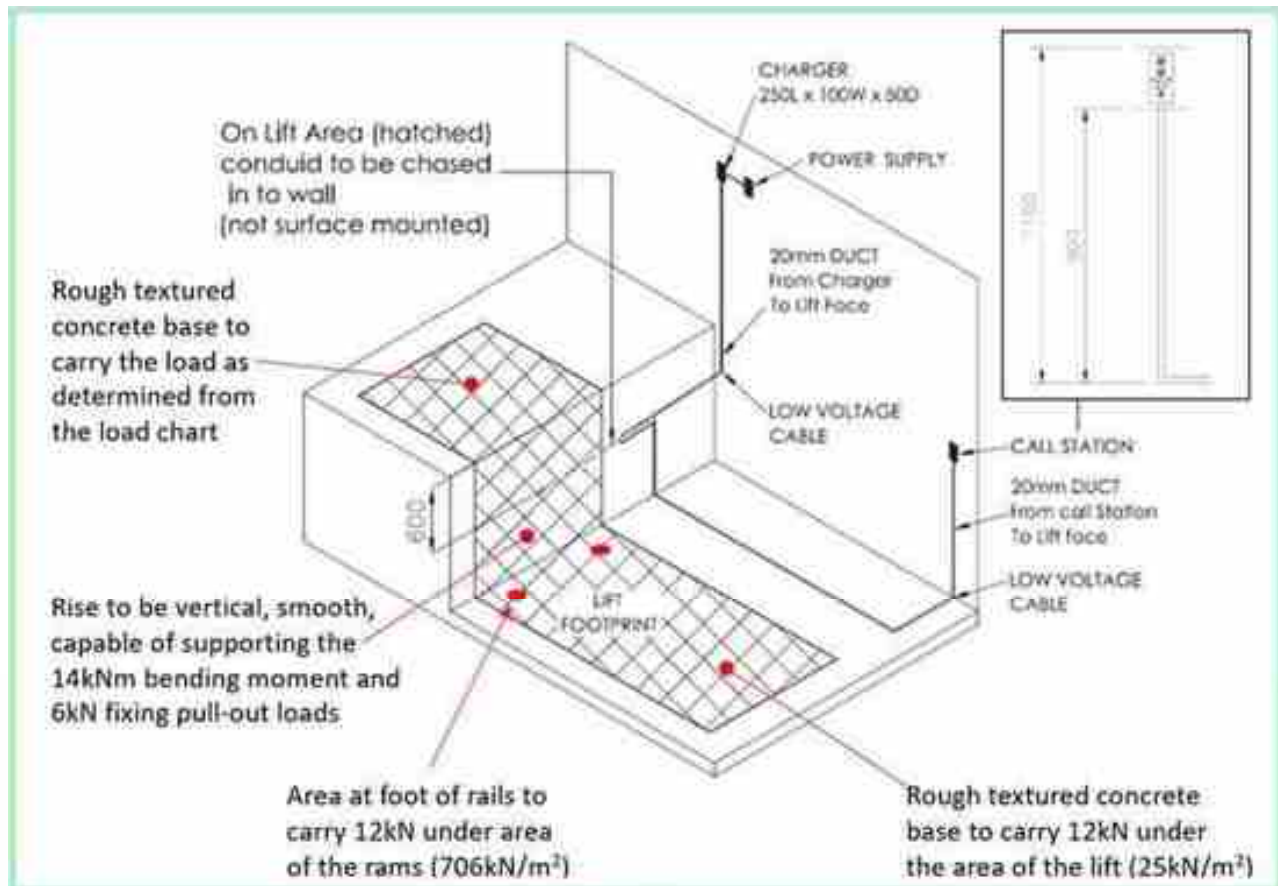
Product loadings



Load >	Total structural load (P) kN	Shear load at landing per M16x100 fixing (P/2) kN	Max pull-out per M10x100 Ankerbolt (non-cumulative) kN
Load @:			
0.5 m rise	28.0	14.0	6.0
0.7m rise	19.5	9.8	6.0
0.9m rise	15.0	7.5	6.0
1.1m rise	12.5	6.3	6.0
1.2m to 3.0m rise	12.0	6.0	6.0

65 Series – 2m/3m Steplift – Specification

Site preparation



Provide a 230V, 1 phase, 50 hz, 3 wire permanent supply terminating in a 13A fused spur outwith the lift location but within the building.

The switch 5A Charging Circuit must be able to accept 1 x 5A HRC fuse, GEC type "T" or equivalent fuses to BS88 Part 2.

Provide 20mm ducting (within the fabric of the building) terminating centrally 300mm below the upper gate location.

The charger will be wired into the fused spur and located in the same location within the building.

Only 24V low voltage cables will be routed to the lift through the 20mm ducting.

Mains voltage must never leave the building or enter the lift area.

It is recommended that the supply is protected by a suitable RCD.

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Site preparation

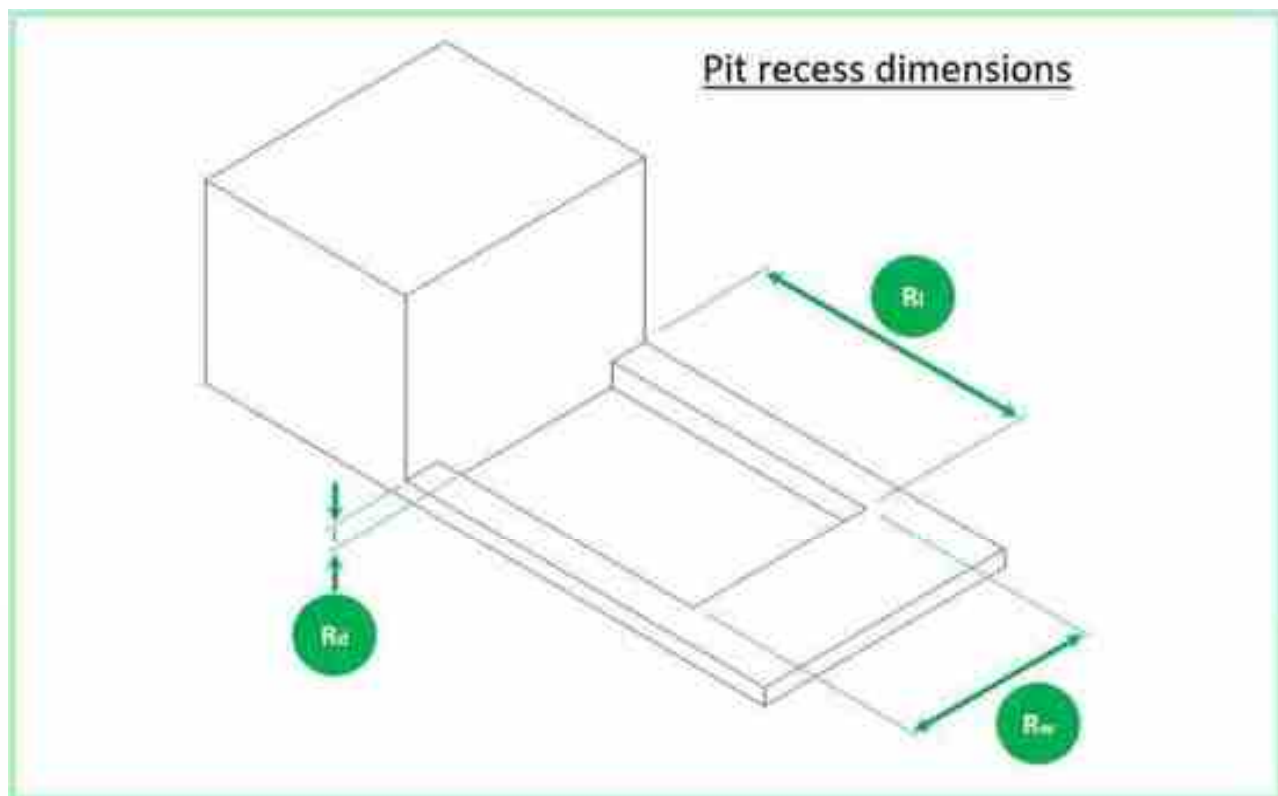
Electrical work must comply with the latest revision of the IEE Wiring Regulations.

It is recommended lighting be provided controlled by PIR's.

Where flush, surface or post mounted calls are specified, 20mm ducting should be chased from call locations to upper gate location prior to lift install.

Ducting from power supply/charger and wall controls to the lift to be prepared prior to lift install.

Wall cavities to house flush mounted controls should be prepared prior to lift install.



Lift Width >	800	900	1100
Dimension			
Rl – (pit recess length)	1660	1660	1660
Rw – (pit recess width)	1130	1230	1430
Rd – (pit recess depth)	50	50	50

65 Series – 2m/3m Steplift – Specification

Site Clearances Requirements

It is essential the new clearance requirements laid out in BS 6440:2011, specified below are adhered to both at survey and installation.

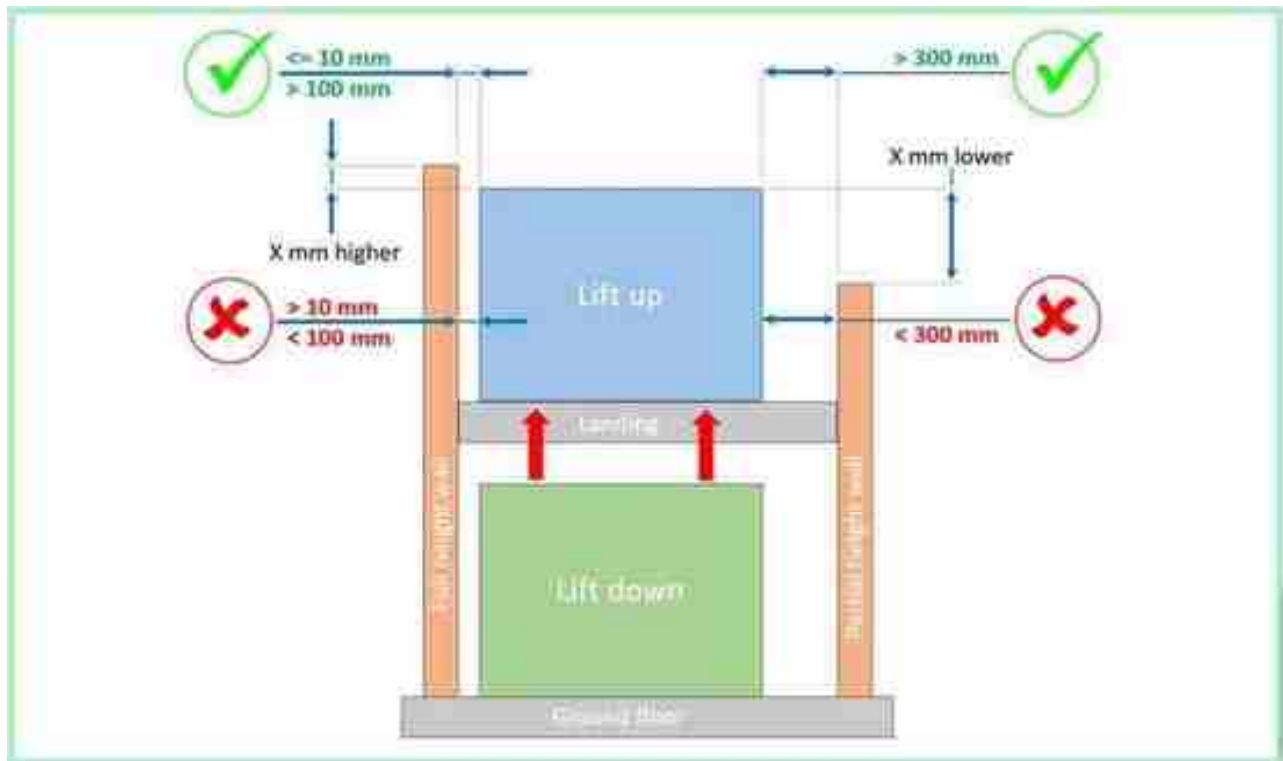
The table below shows compliant clearances marked with a



Conversely non-compliant clearances are marked with an



Non-compliant clearances require a sensitive edge, photo cell or light curtain along affected side.



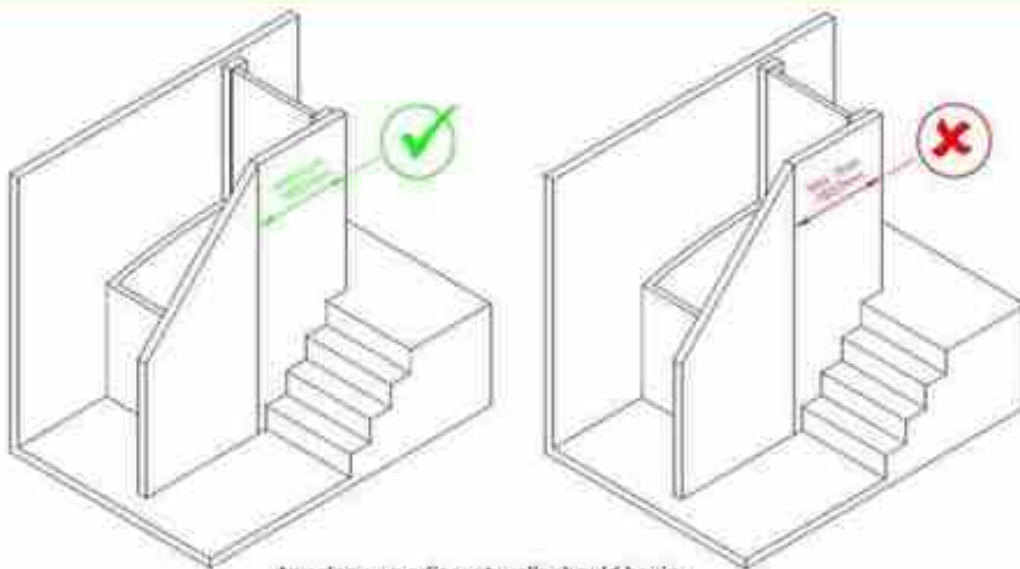
Gap between the Platform & Adjacent Wall [mm]	Full Height Continuous and Smooth Walls	Partial Height Walls with Projections or Recesses
< 10	✓	✗
10-100	✗	✗
100-300	✓	✗
> 300	✓	✓

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BS 6440:2011 Compliant Site Widths

The table below shows the minimum BS 6440:2011 compliant site widths required without the use of sensitive edge, photo cell or light curtain.

Gap between the platform & adjacent walls [mm]	Full height continuous smooth walls on both sides			Partial height walls with projections or recesses on both sides			Full Height wall to one side and partial height wall opposite		
	800	900	1100	800	900	1100	800	900	1100
<= 10 (both sides)	1130	1230	1430	×	×	×	×	×	×
11-100 (both sides)	×	×	×	×	×	×	×	×	×
100-300 (at least 1 side)	1220 to 1420	1320 to 1520	1520 to 1720	×	×	×	1420	1520	1720
> 300 (at least 1 side)	1420 +	1520 +	1720 +	1710 +	1810 +	2010 +	1420 +	1520 +	1720 +

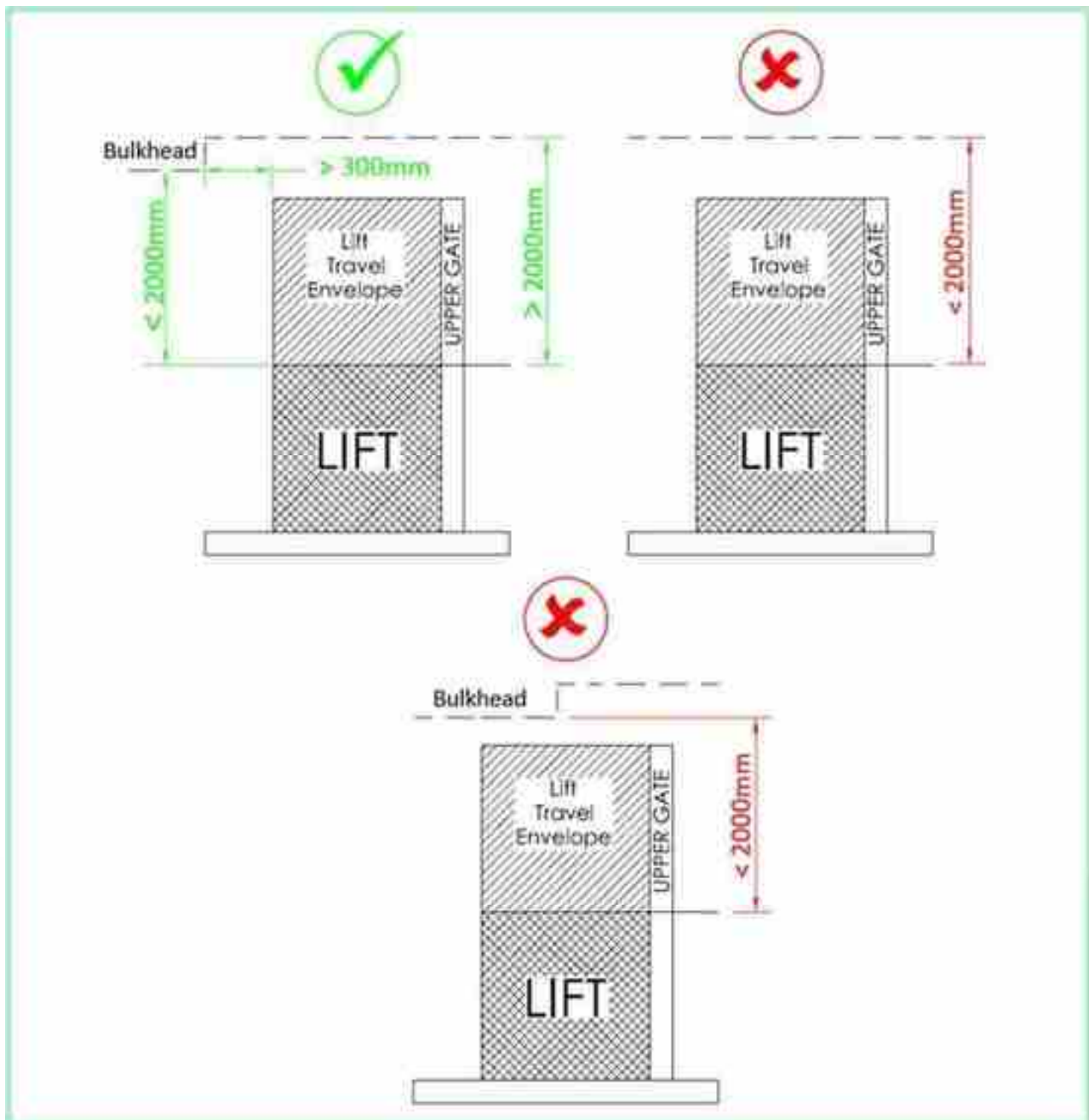


Any slope on adjacent walls should begin at least 1650mm from the upper landing

65 Series – 2m/3m Steplift – Specification

Headroom Requirements

Clear headroom above the platform floor when at the upper landing should be at least 2000mm. Any bulkhead within 300mm of the lift perimeter (sides or lower gate) must also be at least 2000mm above the platform floor when at the upper landing. If either of these requirements cannot be achieved a **sensitive edge, photo cell or light curtain on affected surfaces will be required.**



EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

We **Pollock Lifts**
of **Unit 1, Sloefield Drive,
Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim
N. Ireland, BT38 8GX**

in accordance with the following Directives:

2006/42/EC	The Machinery Directive
2004/108/EC	The Electromagnetic Compatibility Directive
2006/95/EC	The Low Voltage Directive

Hereby declare that:

Equipment **Pollock StepLift - Serial No. 65YYNNN...**

Has been designed to comply with the with the requirements of the Directives.

Signed by:



Name:

Gerry Garvey

Position:

Engineering Manager

The technical documentation for the machinery is available from:

Name:

Pollock Lifts Ltd

Address:

**Unit 1, Sloefield Drive, Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim, N. Ireland, BT38 8GX**

Referenced Standards:

BS 6440:2011 - Specification for powered domestic lifts with partially enclosed cars and no lift-well enclosures

BS EN 81-41: 2010 - Safety rules for the construction and installation of Lifts

Document Revision History

Issue:	Change No.	Description of Change:	Initials:	Date:
A	-----	Initial Release	PTM	18/01/23
B	CR1321	Reference to weatherproof enclosure removed pg.10.	PTM	06/09/23

45 Series Steplift - Specification



45 Series Steplift - Specification

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45 Series Steplift - Specification

Introduction

The 45 Series Steplift is a hydraulically driven scissor-based platform. The unit is capable of raising a load of up to 340 kg through a maximum of 950 mm between two floors.

The product is designed in accordance with BS 6440:2011 and Machinery Directive 2006/42/EC, referencing the relevant sections of EN 81-41.

Intended use for a single person with impaired mobility (including attendant)(1) in both public(2) or domestic installations.

Suitable for internal and external environments.

Special consideration has been given to the location, dimensions and available options for controls allowing for safe and unaided use by person(s) with impaired mobility whether ambulant or in a wheelchair. Controls are provided in the lift car and at both floors making both unattended and attended use (on / off lift) possible.

Various keyswitch options are available allowing the lift to be isolated if required so that usage can be limited to authorized individuals.

(1) Lower gate required for attended use

(2) Lower gate required for public access

45 Series Steplift - Specification

Summary

Technical Specification Summary				
Location		Internal or external environments		
Usage		Public ⁽²⁾ or domestic use by ambulant and wheelchair users		
Maximum passengers		Wheelchair user plus attendant ⁽¹⁾		
Lift Safe Working Load	kg	280 kg (340 kg option)		
Usable Platform (w)x(l)	mm	800 x 1400	900 x 1400	1100 x 1400
Platform Size (w)x(l) ⁽³⁾	mm	980 x 1905 (2400)	1080 x 1905 (2500)	1280 x 1905 (2700)
Maximum Travel	m	0.95		
Rated Speed	m/s	0.1		
Noise (@ 1m/5m)	dB	60 / 50		
Power Supply		Single phase 240V 50Hz		
Electrical Requirements		Dedicated RCD protected supply		
Low voltage operating system		24 VDC [Battery driven – do not disconnect from mains]		
Motor Size	kW	0.8		
Duty Cycle		10 cycles/hour		
Pump operating pressure	bar	180 (max)		
Pressure Switch Setting	bar	200		
Relief Valve Setting	bar	220		
Hydraulic Oil Grade		Tellus 32		
Operating Range		-10 °C to +40 °C		
Safety		Sensitive bottom tray and ramp, bellows, hydraulic restrictor.		
Lifting Mechanism		Direct acting hydraulic scissor with self-contained power pack.		
Design & Manufacturing Standard		BS 6440:2011; EN81-41 (ref. only) Machinery Directive 2006/42/EC		

(1) Lower gate required for attended use

(2) Lower gate required for public access

(3) With upper gate and ramp down (lower gate open)

45 Series Steplift - Specification

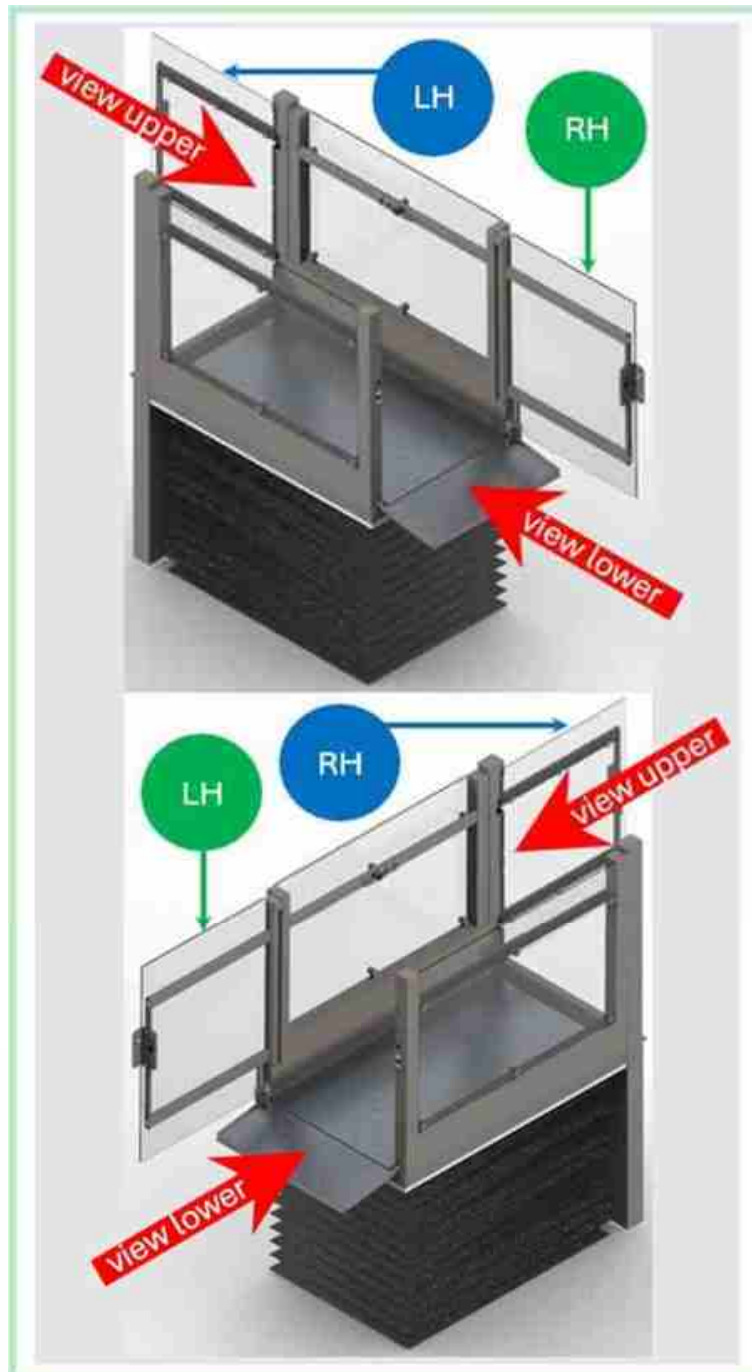
Options

Feature	Standard	Option	Special
Floor mounting	Surface mounted	Pit mounted	
Access	Straight through	Adjacent entry (1100 x 1400)	
Travel	950 mm		
Upper guard	None	Gate	Bridging steps (800 x 1400)
Lower guard	Ramp only	Gate only	Ramp & gate
Handrails – painted aluminium	✓		
Lift panels (6mm Polycarbonate)	✓		
Anti-slip flooring (aluminium checker plate)	✓	Non-slip vinyl	Prep for 3 rd party flooring
Alarm	✓	Arrival chimes	Voice annunciation
Manual gates	✓	Powered gates	
Controls	Control buttons	Braille buttons	
In car controls	Left or right side	Twin	
Autodialler		✓ ⁽⁴⁾	
Upper in gate controls	✓	Surface or flush mounted	Post mounted
Lower surface mounted controls	✓	Flush mounted	Post mounted
Call Post	Square painted aluminium	Square stainless steel	
Keyswitch isolation	✓	Toggle	
Colour RAL 9007	✓		Custom

(4) Requires twin in car Braille controls

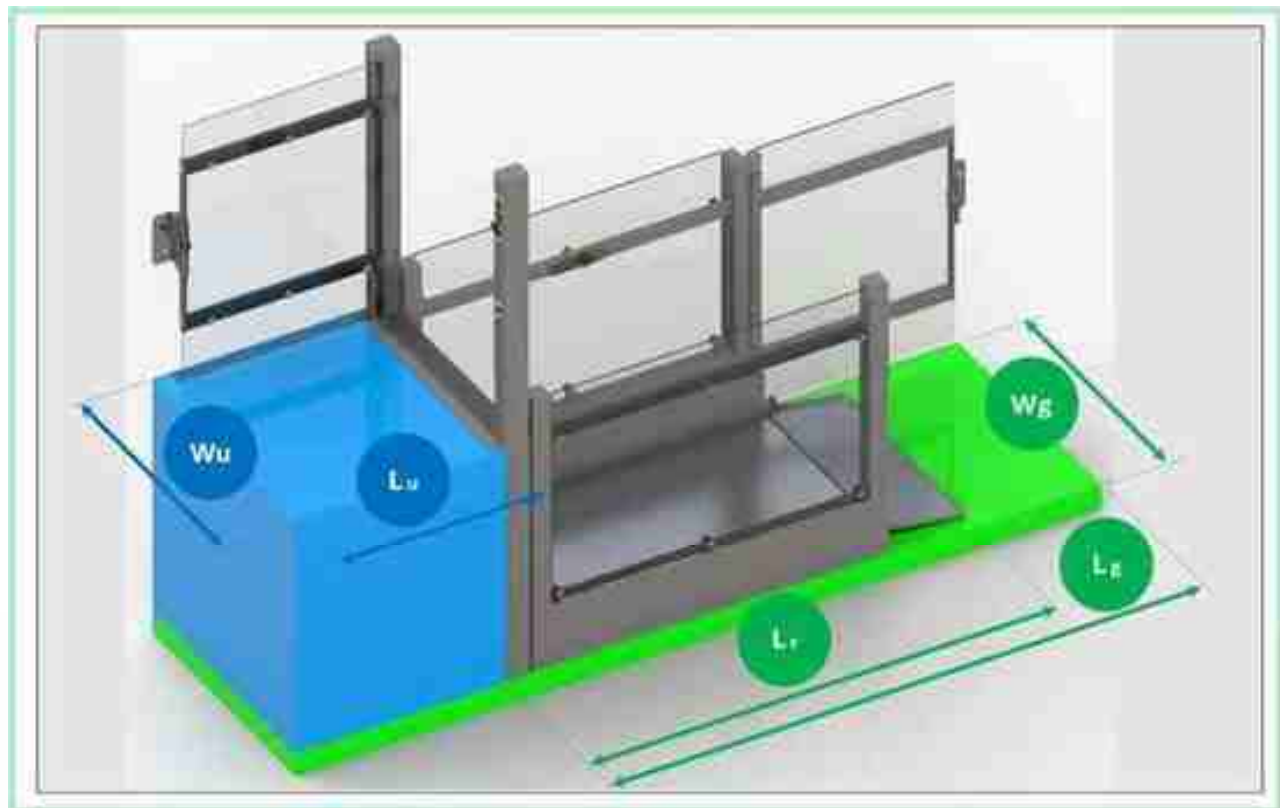
45 Series Steplift - Specification

Handing



45 Series Steplift - Specification

Minimum Product Footprint - Through Entry (10mm side clearances)

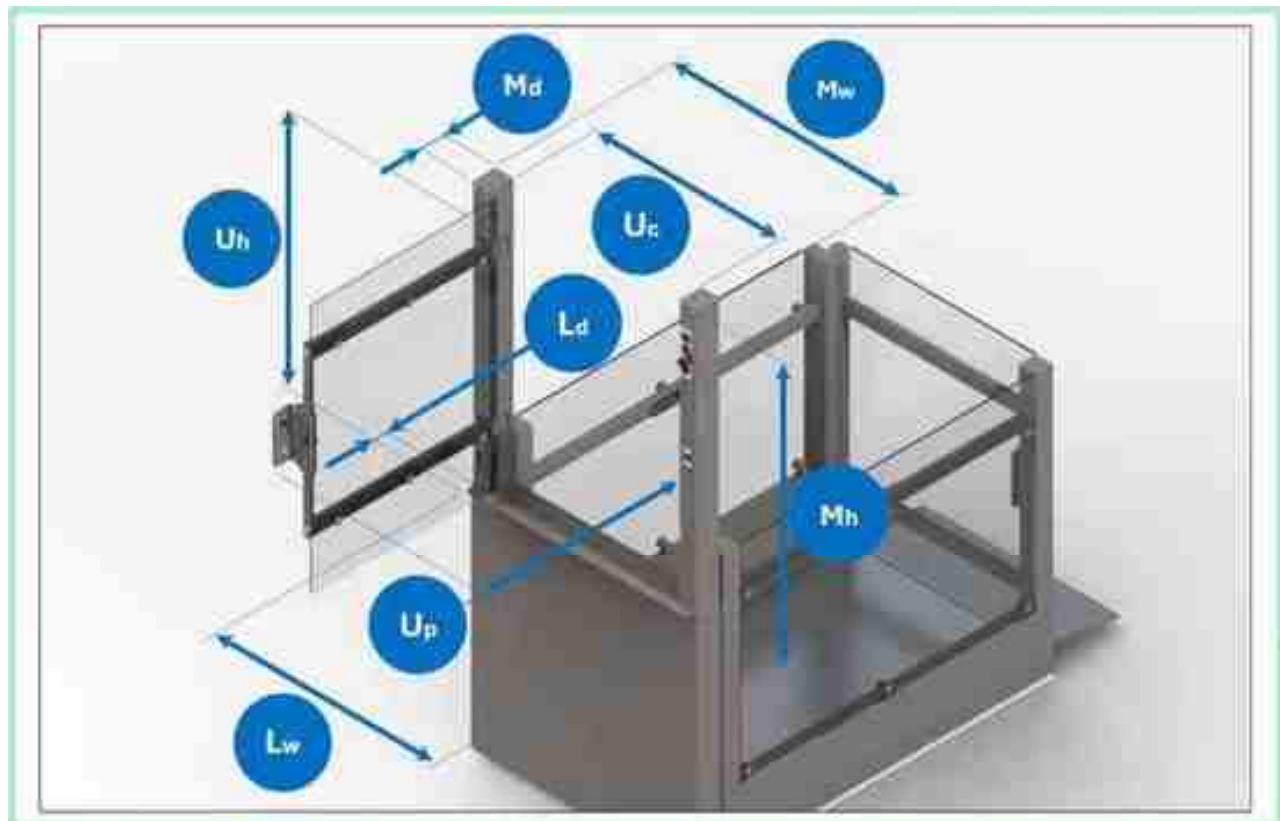


Lift Width >	800	900	1100
Dimension			
Wg – (lower site width)	1000	1100	1300
Lr – (lower through length)	1905	1905	1905
Lg – (lower through length)	2400	2500	2700
Lg – (lower turning length) ⁽⁵⁾	3405 / 3055	3405 / 3055	3405 / 3055
Wu – (upper site width)	1000	1100	1300
Lu – (upper through length)	860	960	1160
Lu – (upper turning length)	1500	1500	1500

(5) Ramp / gate only length including 1500 turning circle

45 Series Steplift - Specification

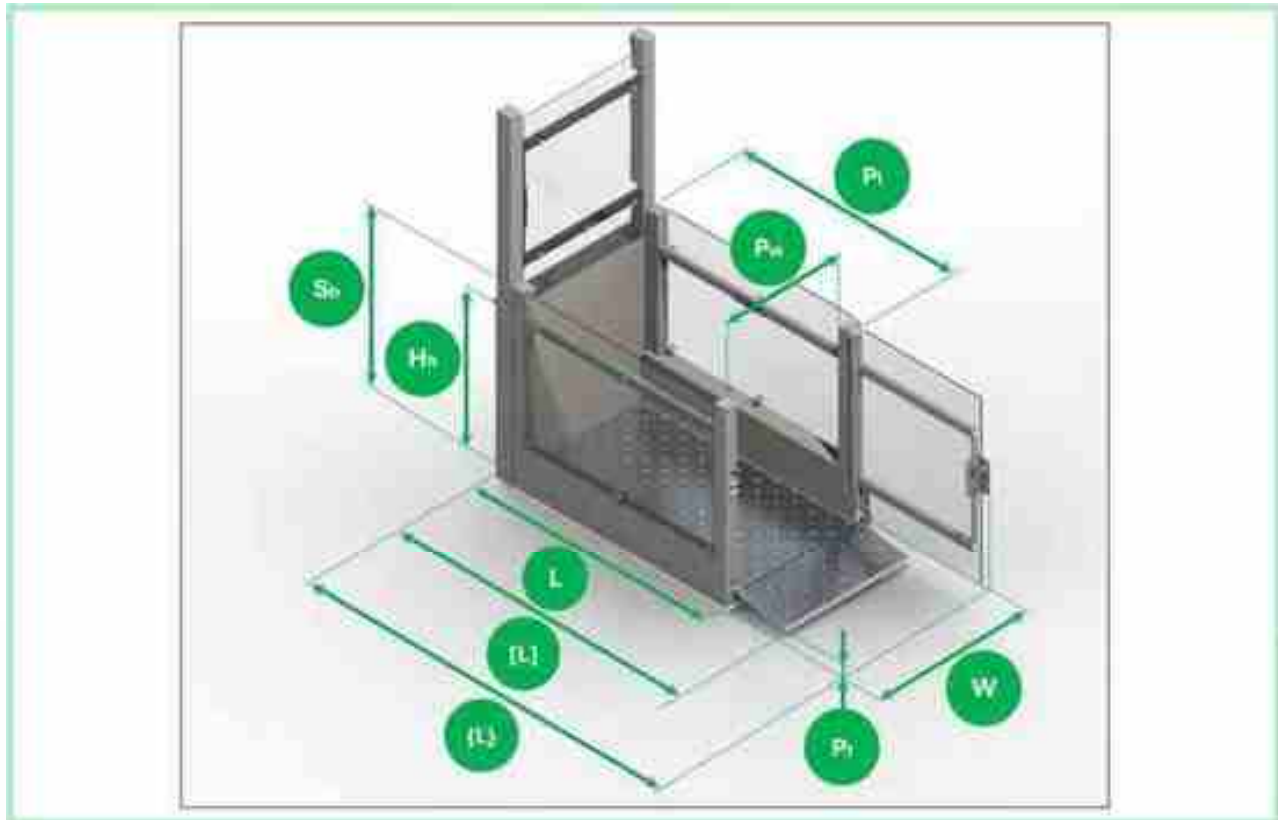
Upper Gate Dimensions



Lift Width >	800	900	1100
Dimension			
Mw – (mast width)	980	1080	1280
Mh – (mast height)	1145	1145	1145
Md – (mast depth)	105	105	105
Lw – (landing plate width)	980	1080	1280
Ld – (landing plate depth)	25	25	25
Uc – (upper gate clear width)	800	900	1100
Uh – (upper gate height)	1110	1110	1110
Up – (upper gate projection)	860	960	1160

45 Series Steplift - Specification

Platform Dimensions

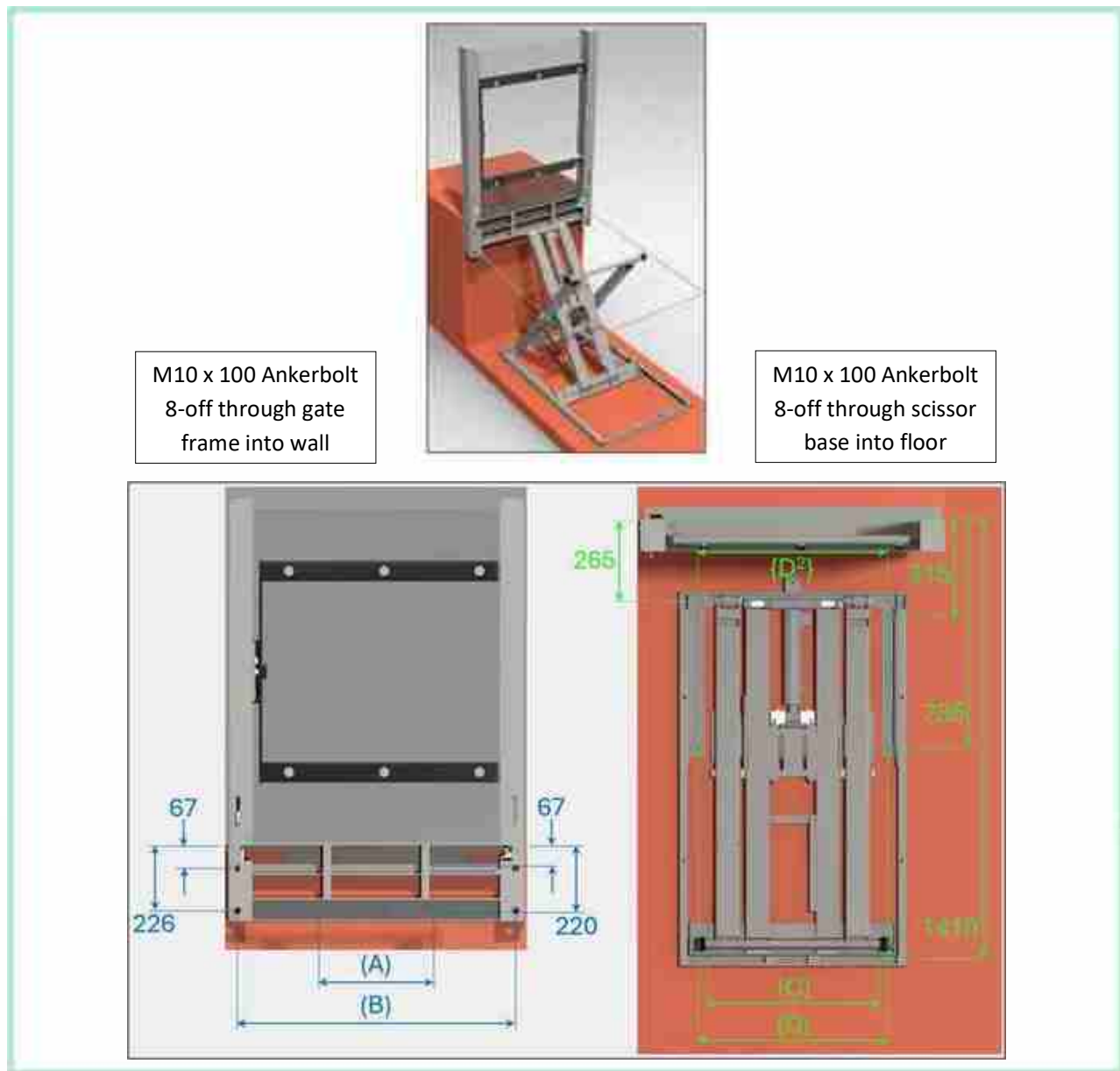


Lift Width >	800	900	1100
Dimension			
W – (width)	980	1080	1280
L – (length) [ramp] {gate}	1555 [1905] {2400}	1555 [1905] {2500}	1555 [1905] {2700}
Pw – (clear platform width)	800	900	1100
Pl – (clear platform length) ⁽⁶⁾	1445 / 1400	1445 / 1400	1445 / 1400
Pt – (platform thickness)	65	65	65
Sh – (side height)	1105	1105	1105
Hh– (handrail height to c/l)	900	900	900

(6) Ramp only / Gate

45 Series Steplift - Specification

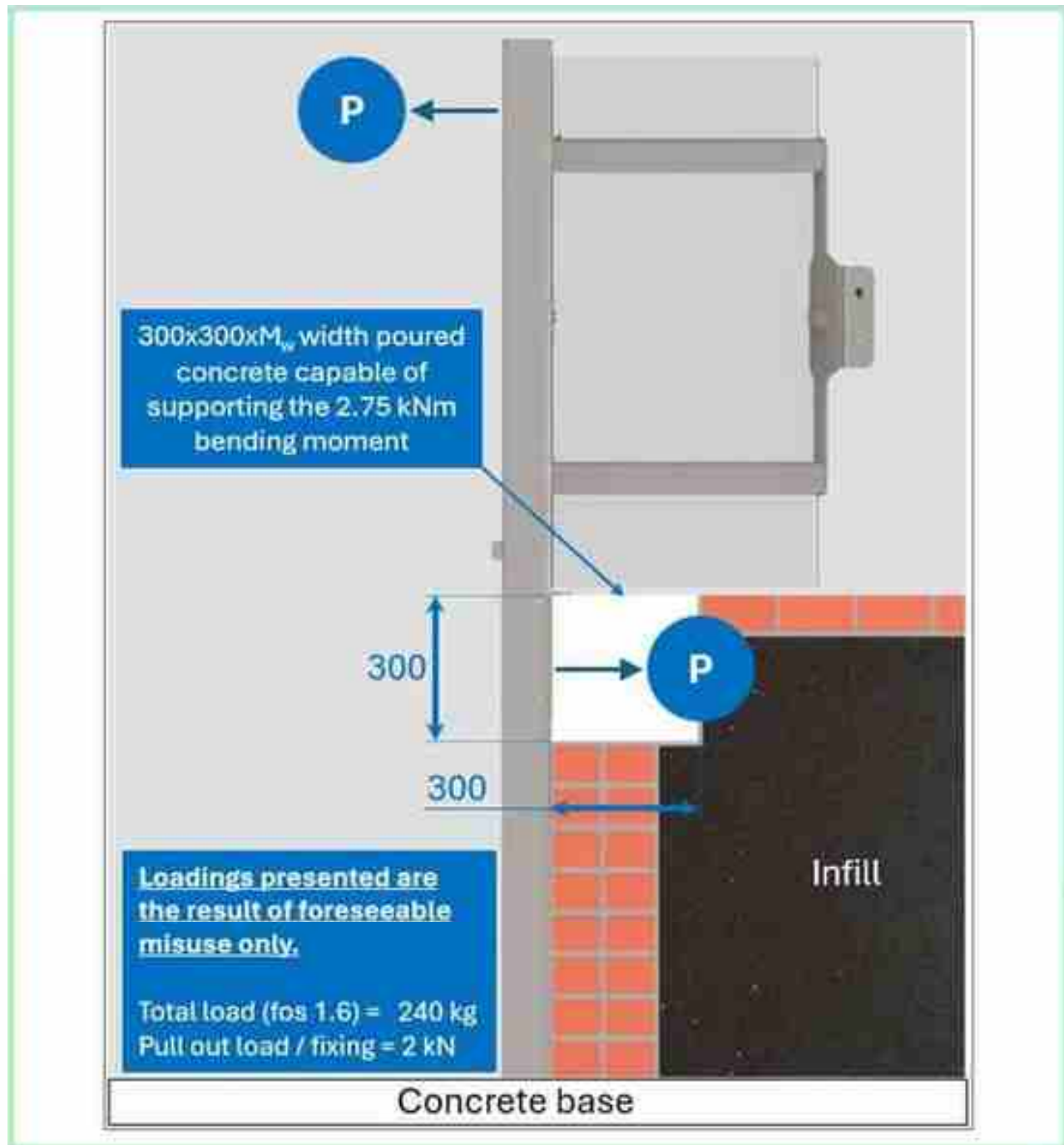
Lift anchorage points



Lift Width >	800	900	1100
Dimension			
A – (inner gate pitch)	380	480	480
B – (outer gate pitch)	925	1025	1225
C – (front scissor pitch)	550	550	850
D – (rear scissor pitch) {D ² }	610	610	910 {750}

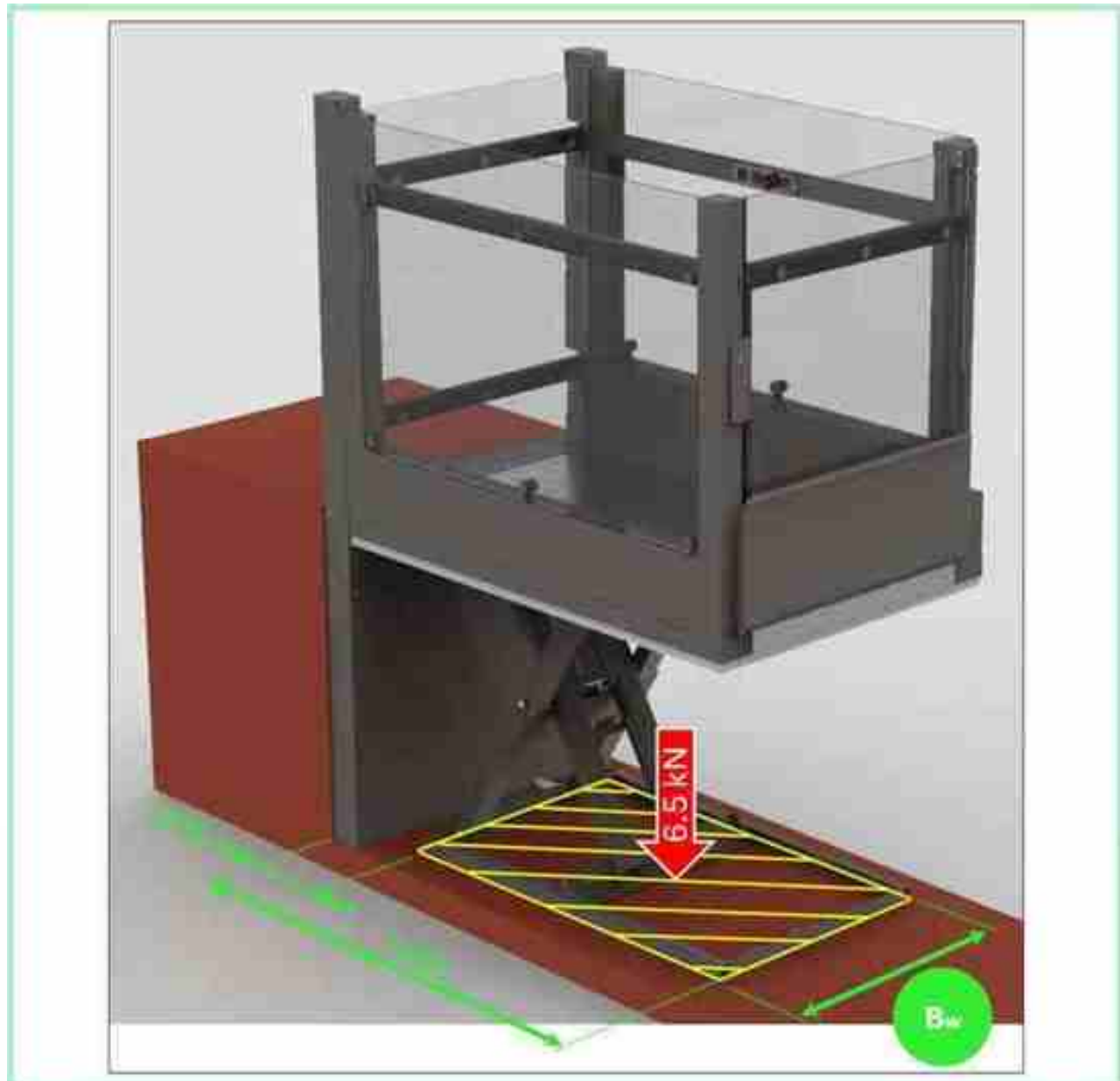
45 Series Steplift - Specification

Product gate loadings



45 Series Steplift - Specification

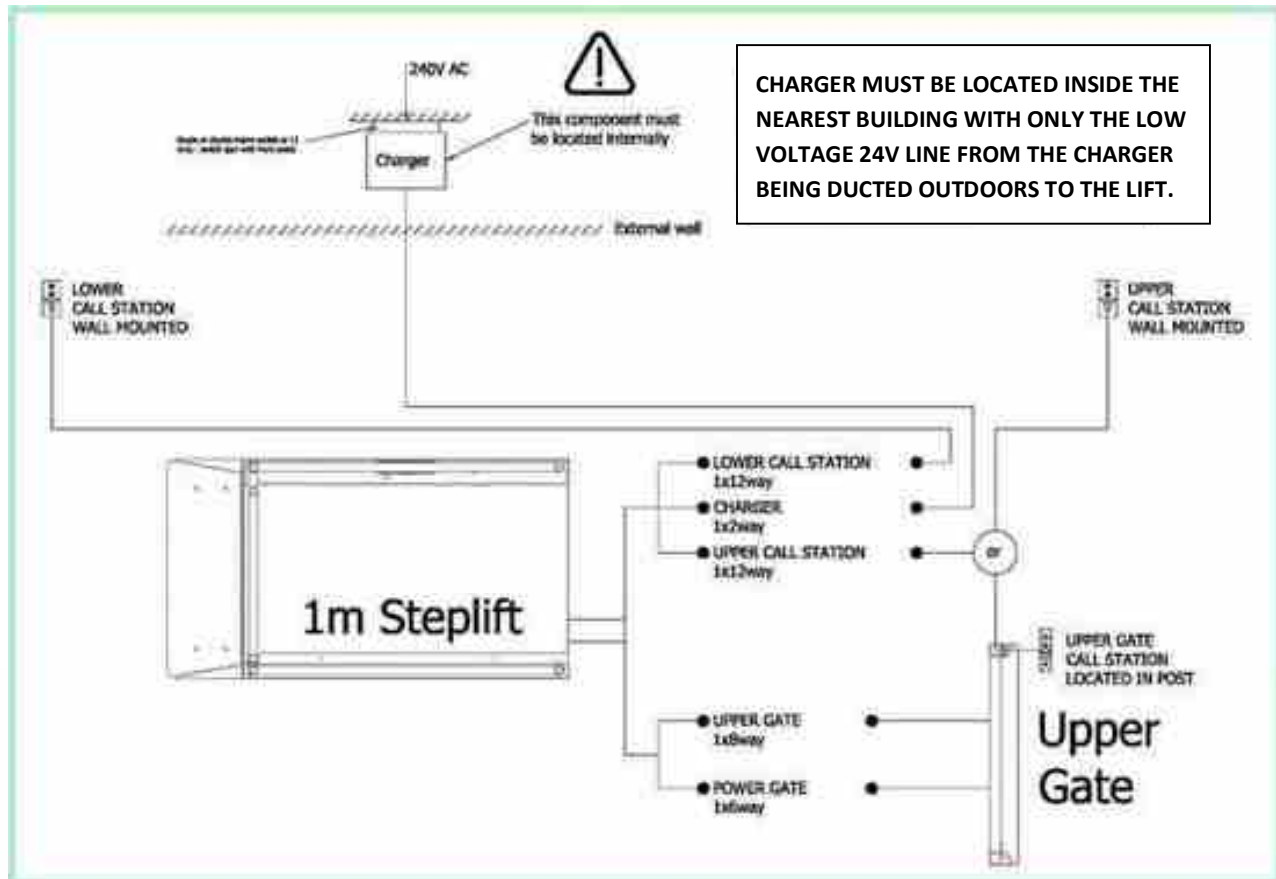
Product Scissor loadings



Lift Width >	800	900	1100
Dimension			
Bw – (scissor base width)	730	730	1030

45 Series Steplift - Specification

Electrical Supply to Lift



Provide a 230V, 1 phase, 50 hz, 3 wire permanent supply terminating in a 13A fused spur outwith the lift location but within the building.

The switch 5A Charging Circuit must be able to accept 1 x 5A HRC fuse, GEC type "T" or equivalent fuses to BS88 Part 2.

Provide 20mm ducting (within the fabric of the building) terminating centrally 300mm below the upper gate location.

The charger will be wired into the fused spur and located in the same location within the building.

Only 24V low voltage cables will be routed to the lift through the 20mm ducting.

Mains voltage must never leave the building or enter the lift area.

It is recommended that the supply is protected by a suitable RCD.

45 Series Steplift - Specification

Electrical Supply to Lift

Electrical work must comply with the latest revision of the IEE Wiring Regulations.

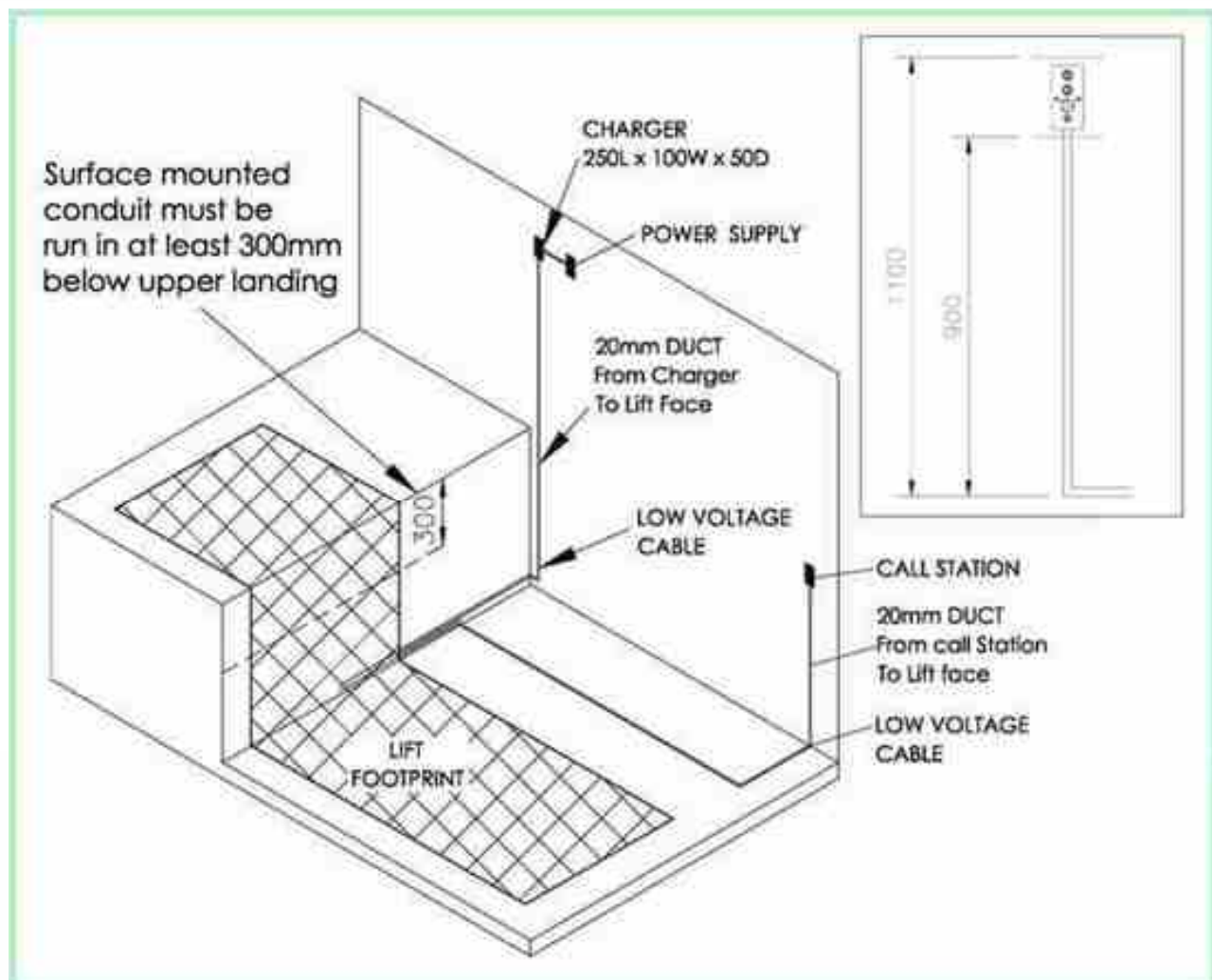
It is recommended lighting be provided controlled by PIR's.

Where flush, surface or post mounted calls are specified, 20mm ducting should be chased from call locations to upper gate location prior to lift install.

Wall mounted control boxes should be positioned between 900 – 1100mm.

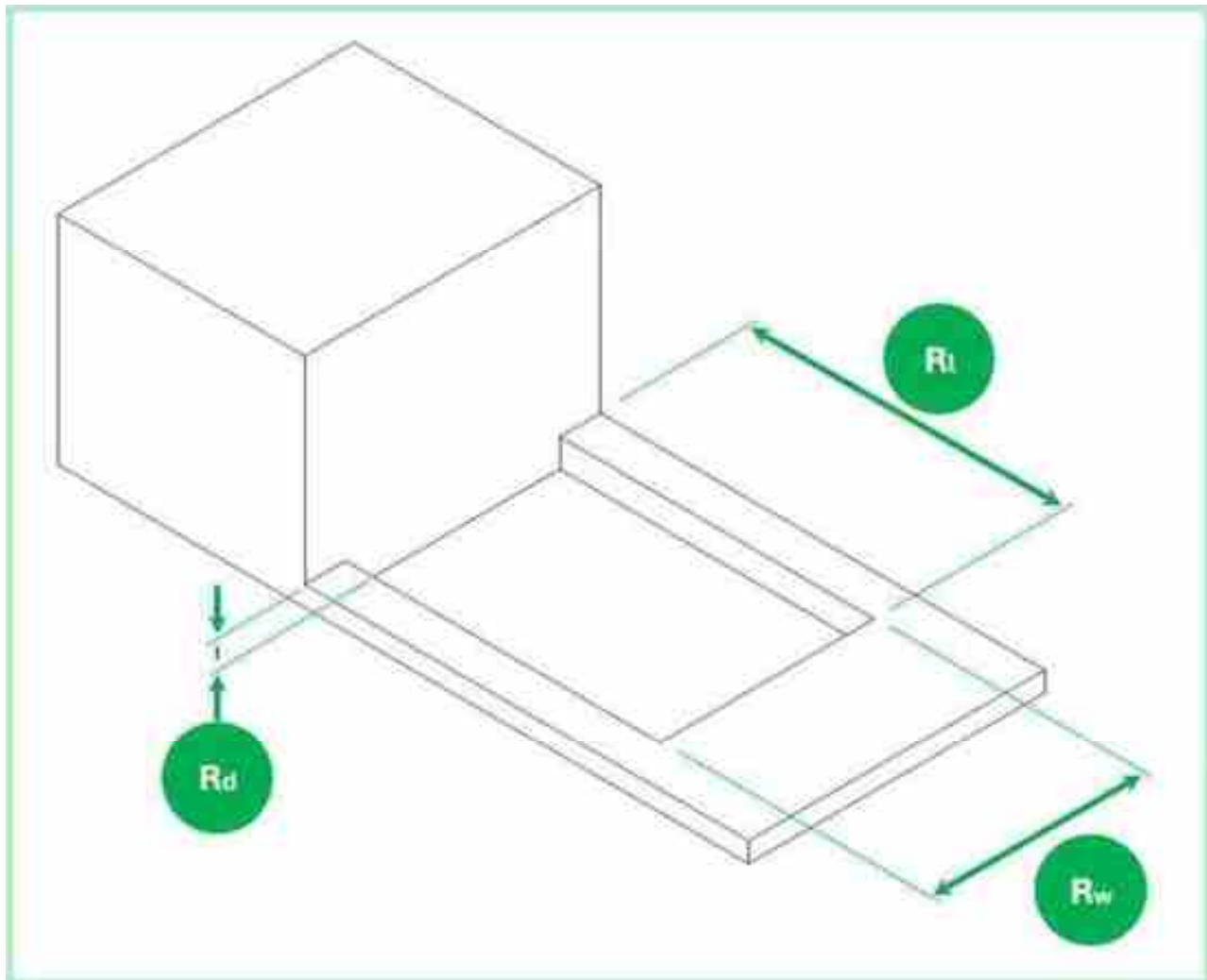
Ducting from power supply/charger and wall controls to the lift to be prepared prior to lift install.

Wall cavities to house flush mounted controls should be prepared prior to lift install.



45 Series Steplift - Specification

Pit recess dimensions



Lift Width >	800	900	1100
Dimension			
Rl – (pit recess length) ⁽⁷⁾	1515 (1565) [1560] {1615}		
Rw – (pit recess width)	1000	1100	1300
Rd – (pit recess depth)	65	65	65

(7) *lower gate only (upper & lower gate only) [*lower ramp only] {Upper gate & lower ramp}

* 50mm deep riser panel supplied in place of 100mm deep gate.

45 Series Steplift - Specification

Site Clearances Requirements

It is essential the new clearance requirements laid out in BS 6440:2011, specified below are adhered to both at survey and installation.

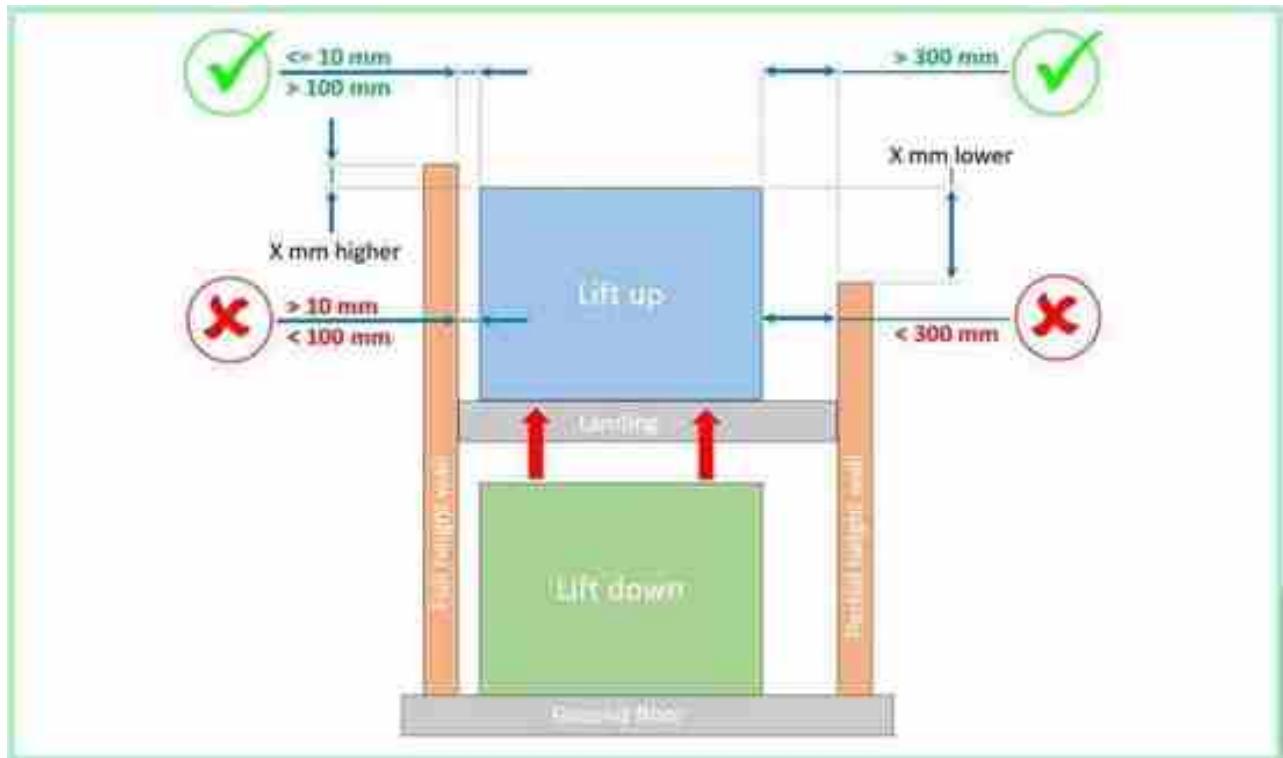
The table below shows compliant clearances marked with a



Conversely non-compliant clearances are marked with an



Non-compliant clearances require a sensitive edge, photo cell or light curtain along affected side(s)



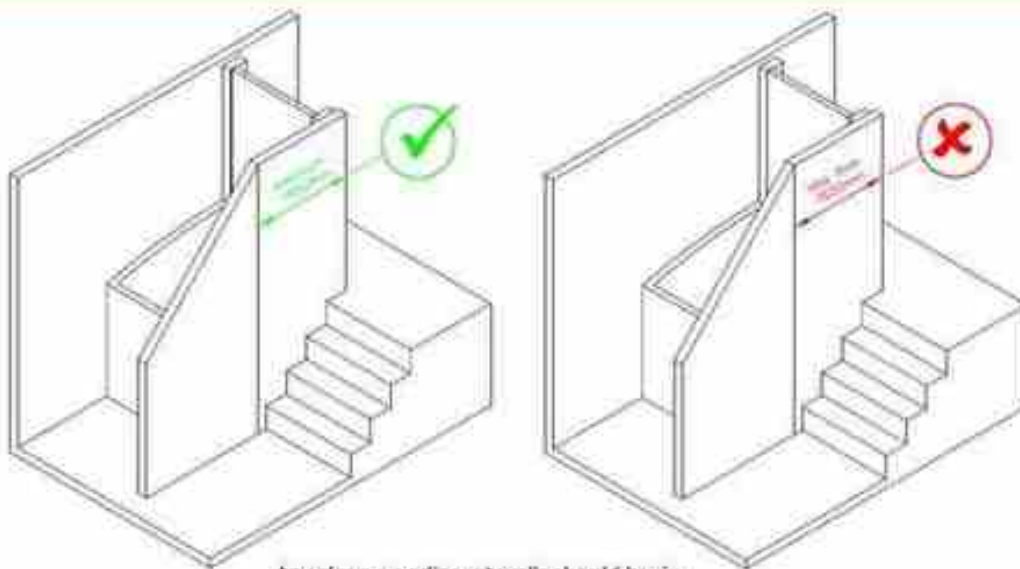
Gap between the Platform & Adjacent Wall [mm]	Full Height Continuous and Smooth Walls	Partial Height Walls with Projections or Recesses
< 10	✓	✗
10-100	✗	✗
100-300	✓	✗
> 300	✓	✓

45 Series Steplift - Specification

BS 6440:2011 Compliant Site Widths

The table below shows the minimum BS 6440:2011 compliant site widths required without the use of sensitive edge, photo cell or light curtain.

Gap between the platform & adjacent walls [mm]	Full height continuous smooth walls on both sides			Partial height walls with projections or recesses on both sides			Full Height wall to one side and partial height wall opposite		
	800	900	1100	800	900	1100	800	900	1100
<= 10 (both sides)	1000	1100	1300	✗	✗	✗	✗	✗	✗
11-100 (both sides)	✗	✗	✗	✗	✗	✗	✗	✗	✗
100-300 (at least 1 side)				✗	✗	✗			
	> 1090	> 1190	> 1390				> 1290	> 1390	> 1590
> 300 (at least 1 side)				> 1580	> 1680	> 1880			

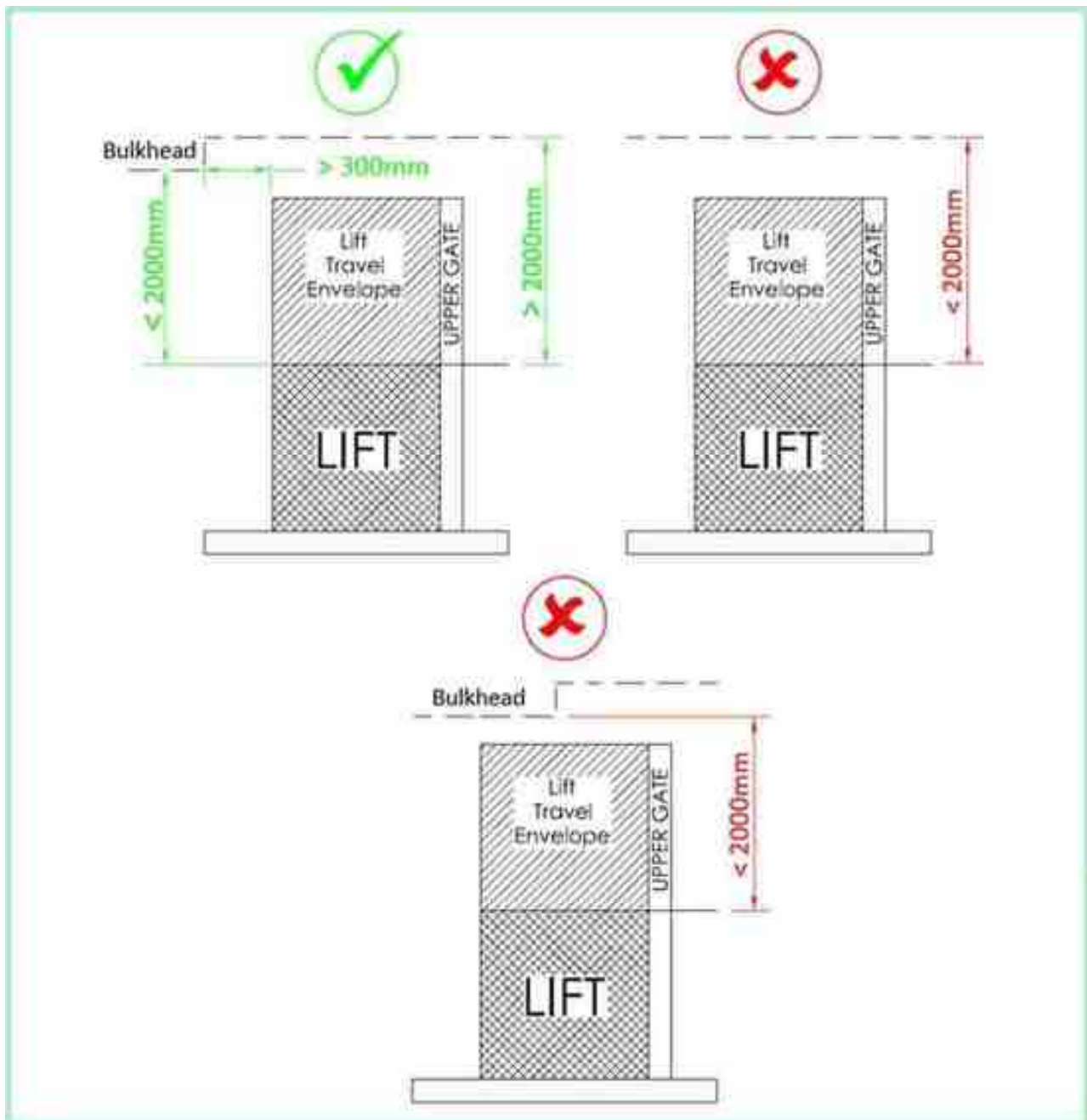


Any slope on adjacent walls should begin at least 1650mm from the upper landing

45 Series Steplift - Specification

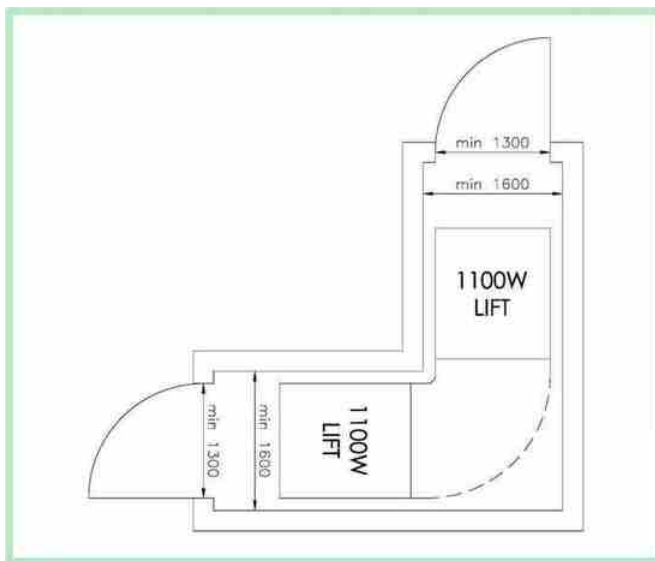
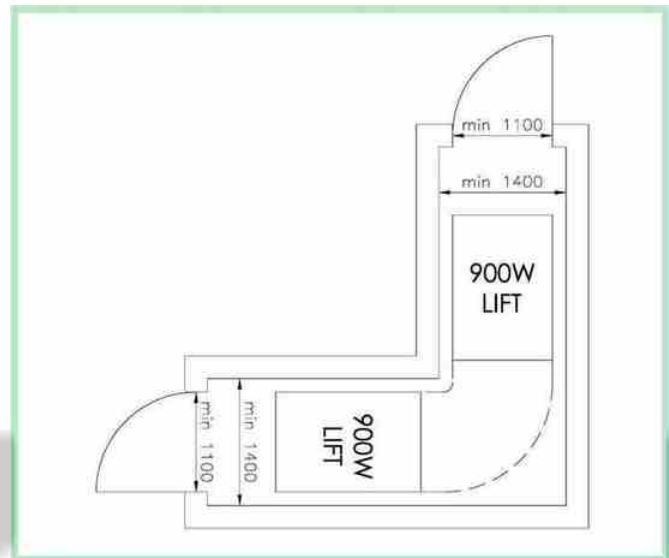
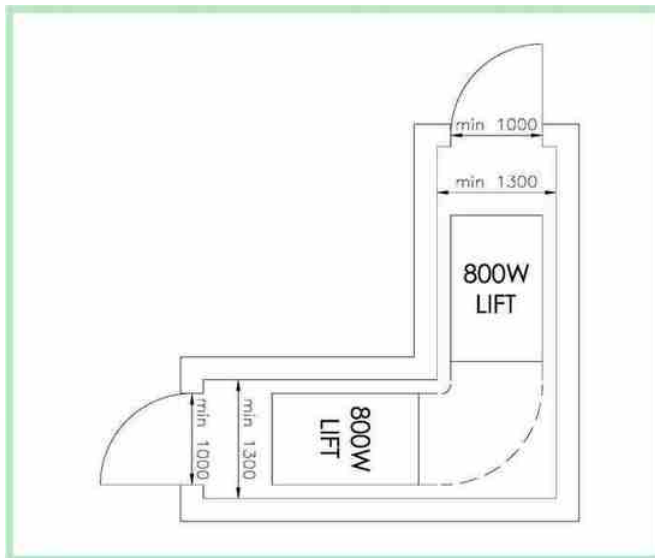
Headroom Requirements

Clear headroom above the platform floor when at the upper landing should be at least 2000mm. Any bulkhead within 300mm of the lift perimeter (sides or lower gate) must also be at least 2000mm above the platform floor when at the upper landing. If either of these requirements cannot be achieved a **sensitive edge, photo cell or light curtain on affected surfaces will be required.**



45 Series Steplift - Specification

Accessing the Site



Consideration should be given to getting the lift to the proposed site and whether or not this will be achievable without dismantling the lift.

45 Series Steplift - Specification

Other Site Considerations

Lift Location and Suitability

- Is there sufficient room to allow a person in a wheelchair to access the lift at all levels?
- Are there any issues with headroom/bulkheads with the lift at the upper landing?
- Are there any restrictions that need to be considered i.e. doors opening into the lift area?
- Does the clients existing wheelchair fit into the lift? Are there plans to change it?
- Are door handing's correct at both levels?
- Can the user easily use the controls?
- Will the room that the lift is located be restricted any way due to a lift being present?
- Is there room for furniture to fit in around the lift?

Structural Considerations

- Are the floors perfectly flat on both levels?
- Has pit been formed correctly?
- Is the lifting face wall and lower floor able to take the lift loadings?
- Are any Building Notices required from for example Local Authorities?
- Who is responsible for submitting the Building Notice to Building Control?

Electrical Considerations

- Is the electrical meter location easily accessible?
- Has client been made aware of possible trunking required to lift power point?
- Is a weatherproof location within the building available to house the charger?

Installation Considerations

- Is there suitable off-loading access adjacent to the building / lift location?
- Is there adequate access for the lift through the building to the lift area? (walk route)
- Is parking available for Engineers vehicles close to site?
- Is access area clear for lift installation?
- Is site clean?
- Do Engineers require a site induction on arrival?
- Are walls suitable to take appropriate fixings?
- Are call station positions clearly identified?
- Is there a suitable power supply for use by installers for power tools?
- Are other contractors going to be on site which may affect the lift installation?
- Who is responsible for the preparation work?
- Can a handover and demonstration take place on the day of installation?

EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

We Pollock Lifts
of Unit 1, Sloefield Drive,
Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim
N. Ireland, BT38 8GX

in accordance with the following Directives:

2006/42/EC	The Machinery Directive
2004/108/EC	The Electromagnetic Compatibility Directive
2006/95/EC	The Low Voltage Directive

Hereby declare that:

Equipment Pollock StepLift - Serial No.....45YYNNN...

Has been designed to comply with the with the requirements of the Directives.

Signed by:



Name:

Gerry Garvey

Position:

Engineering Manager

The technical documentation for the machinery is available from:

Name:

Pollock Lifts Ltd

Address:

Unit 1, Sloefield Drive, Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim, N. Ireland, BT38 8GX

Referenced Standards:

BS 6440:2011 - Specification for powered domestic lifts with partially enclosed cars and no lift-well enclosures

BS EN 81-41: 2010 - Safety rules for the construction and installation of Lifts

Document Revision History

Issue:	Change No.	Description of Change:	Initials:	Date:
A	-----	Initial Release	PTM	27/11/25
B	CR1515	Charger location revised to inside building only pg.11	PTM	10/02/26

20 Series – Through floor lift – Specification



20 Series – Through floor lift – Specification

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20 Series – Through floor lift – Specification

Introduction

The 20 Series through floor lift is either a hydraulically or motor (hoist) driven cantilever platform. The unit is capable of raising a load of up to 255 kg through a maximum of 4.2 m between two floors.

The product is designed in accordance with BS 5900:2012 and Machinery Directive 2006/42/EC, referencing the relevant sections of EN 81-41.

Intended use for a single person with impaired mobility in domestic installations.

Suitable for internal domestic environments.

Special consideration has been given to the location, dimensions and available options for controls allowing for safe and unaided use by person with impaired mobility whether ambulant or in a wheelchair. Controls are provided in the lift car and at both floors making both unattended and attended use possible.

Various keyswitch options are available allowing the lift to be isolated if required so that usage can be limited to authorized individuals.

20 Series – Through floor lift – Specification

Technical Specification Summary		
	Traction	Hydraulic
Application	Private use by ambulant and wheelchair users	
Lift Safe Working Load	255kg	255kg
Trapdoor Safe Working Load	255kg	255kg
Head Height 1 st Floor	1840mm to 2125mm	1870mm to 2225mm
Minimum Platform (w)x(l)	542mm x 760mm	542mm x 760mm
Minimum Footprint (w)x(l)	688mm x 913mm	688mm x 913mm
Maximum Platform (w)x(l)	850mm x 1400mm	850mm x 1250mm
Maximum Footprint (w)x(l)	996mm x 1565mm	996mm x 1400mm
Maximum Travel	4.2m	3.5m
Rated Speed	0.1m/s	0.1m/s
Noise dB (1m/5m)	55 / 50	67 / 61
Power Supply	Single phase 240V 50Hz	Single phase 240V 50Hz
Electrical Requirements	Dedicated RCD protected supply	Dedicated RCD protected supply
Low voltage operating system	12VDC Battery driven – do not disconnect from mains for extended periods	12VDC Battery driven – do not disconnect from mains for extended periods
Motor Size	0.55kW	0.75kW
Duty Cycle	10 cycles/hour	10 cycles/hour
Typical Pump operating pressure	N/A	45 bar
Typical Cylinder operating pressure	N/A	38 bar
Pressure Switch Setting	N/A	38.5 bar
Relief Valve Setting	N/A	60 bar
Hydraulic Oil Grade	N/A	Tellus 32
Operating Temperature Range	+10°C to +40°C	+10°C to +40°C
Safety	Sensitive edges, bottom tray & Trapdoor. Overspeed & brake.	Sensitive edges, bottom tray & Trapdoor. Rupture Valve.
Lifting Mechanism	Rope suspension system	Direct acting hydraulic system
Design & Manufacturing Standard	Machinery Directive 2006/42/EC BS 5900:2012	Machinery Directive 2006/42/EC BS 5900:2012

20 Series – Through floor lift – Specification

Options

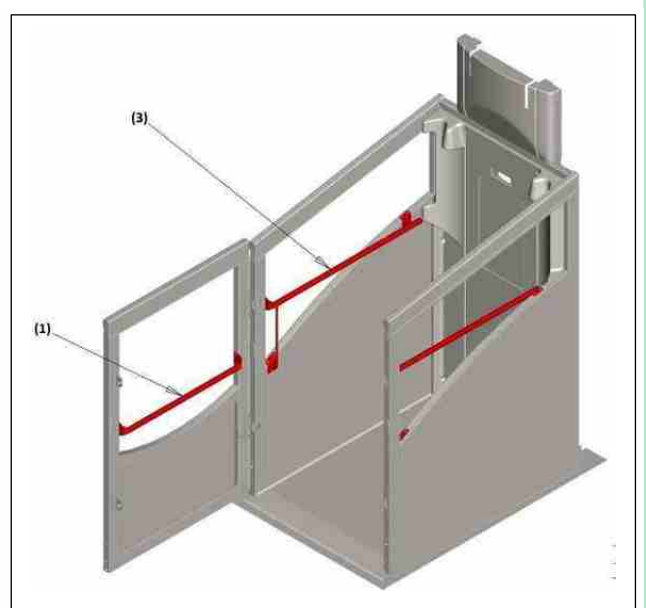
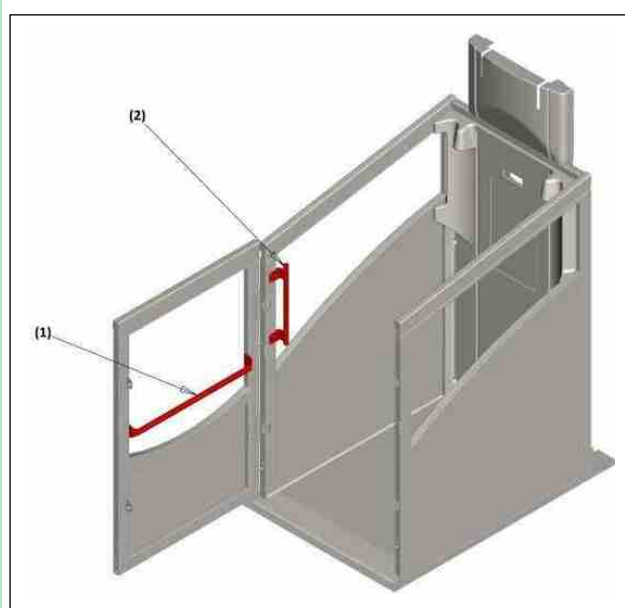
Feature	Standard	Option
Glazing (acrylic)	X	
Anti-slip rubber flooring	X	
Remote controls	X	
Alarm	X	
Manual door		Powered
Tip-up seat		X
Percher seat		X
Sliding seat (V/Seat only)		X
Emergency telephone		X
Door handrail ⁽¹⁾	X	
Vertical grab handles ⁽²⁾		X
Horizontal grab handles ⁽³⁾		X

(1) Manual doors only

(2) Not available with ⁽³⁾

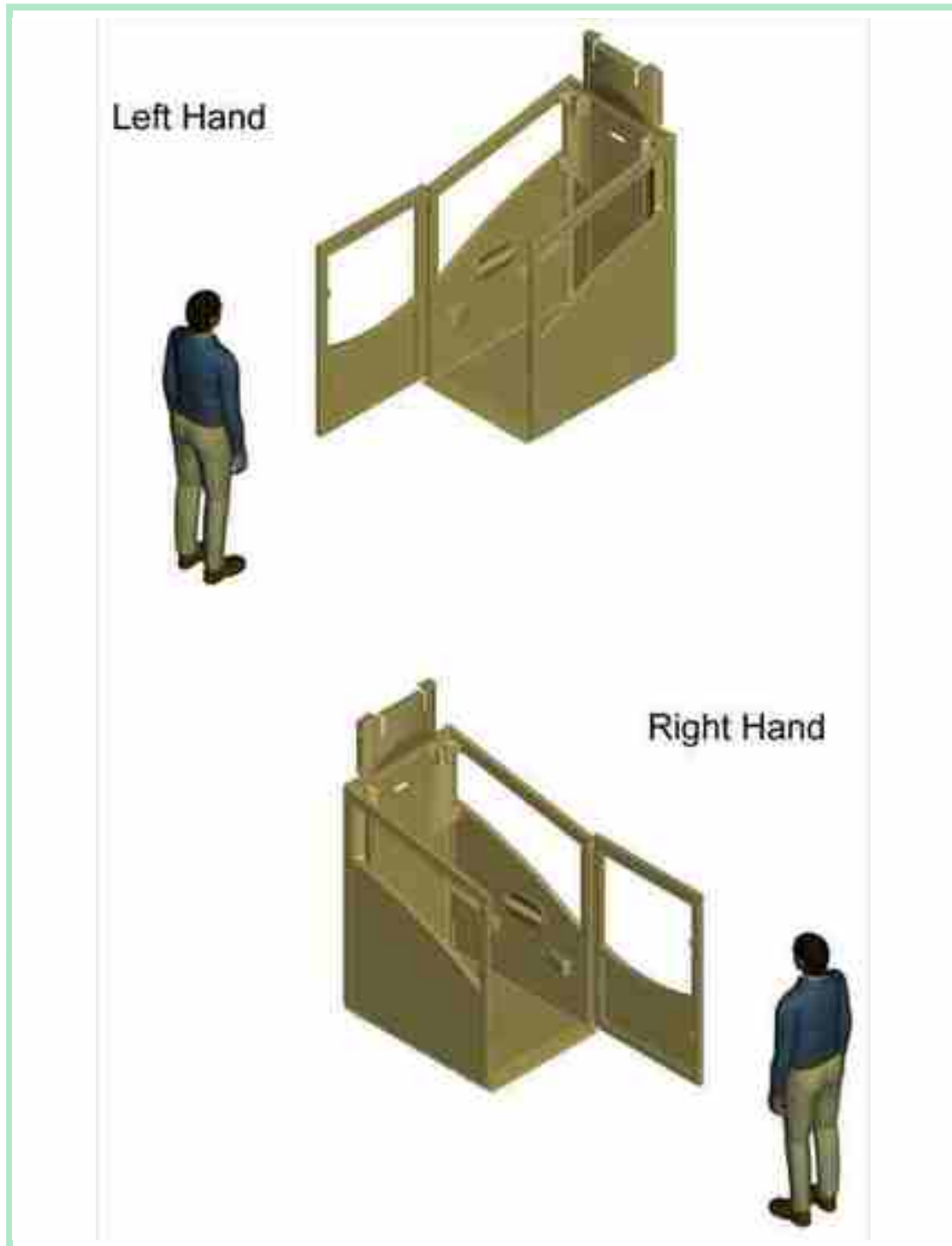
(3) Not available with ⁽²⁾

(Handrails shown in red for clarity)



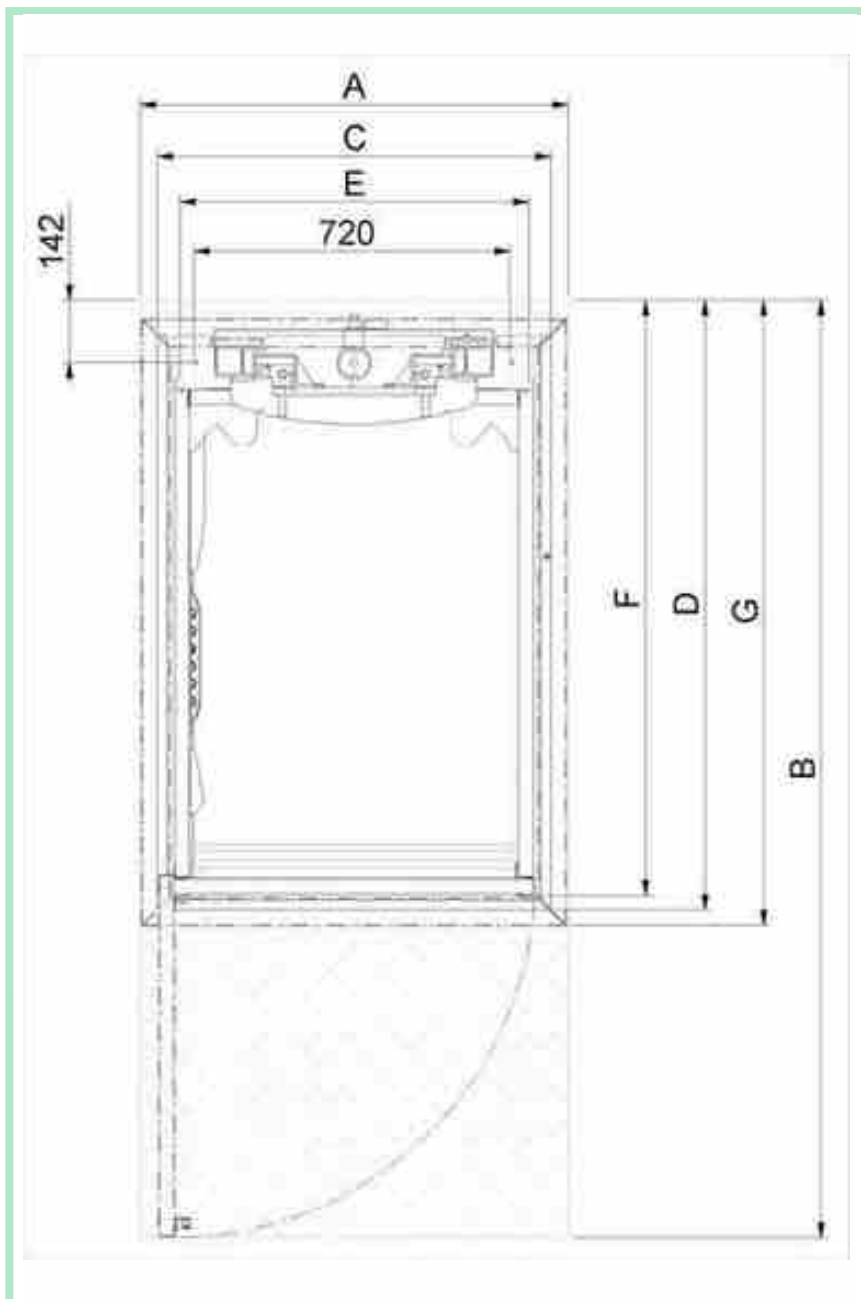
20 Series – Through floor lift – Specification

Handing



20 Series – Through floor lift – Specification

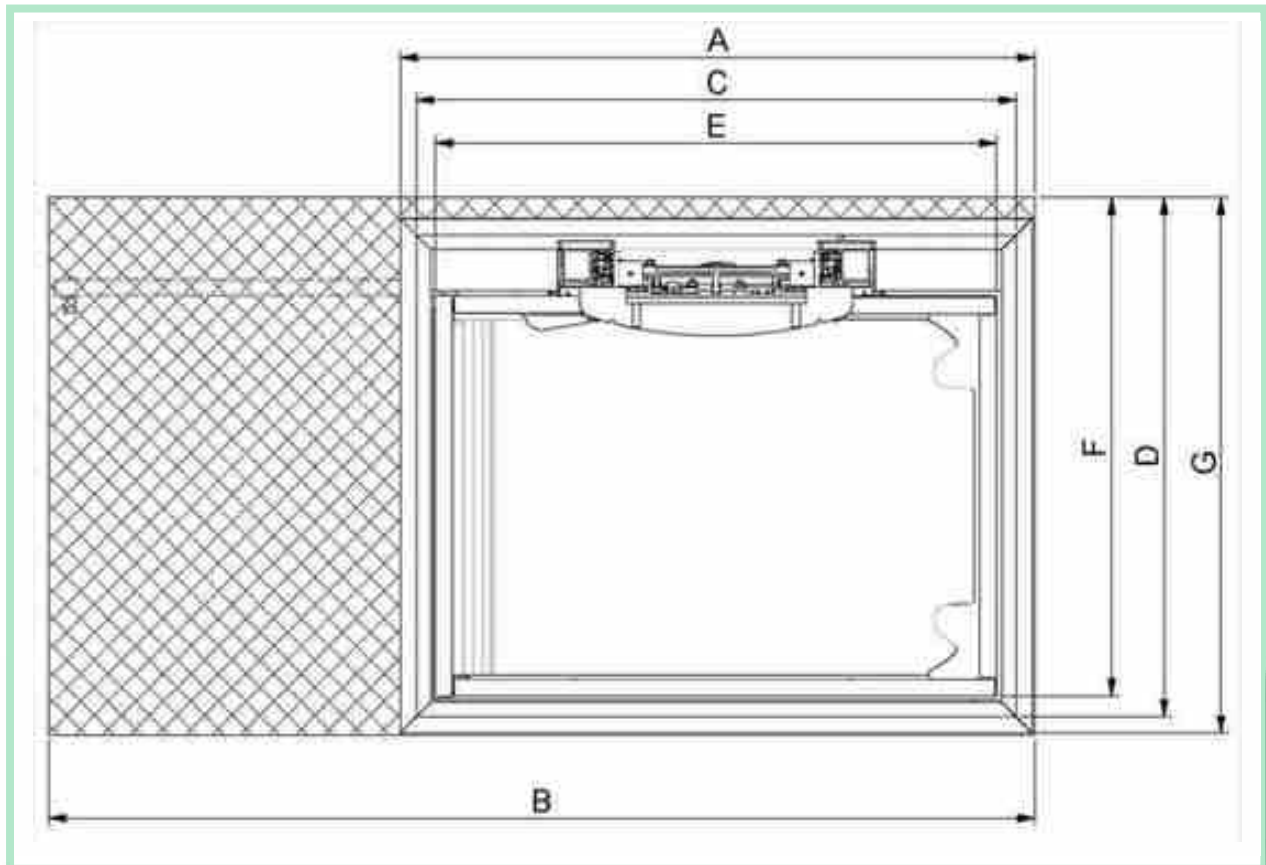
Product Footprint



A = Product Width
B = Product Length
C = Bottom Tray Width
D = Bottom Tray Length
E = Lift Width
F = Lift Length (Closed)
G = Liner Length

20 Series – Through floor lift – Specification

Product Footprint (Side Hung)



A = Product Width
B = Product Length
C = Bottom Tray Width
D = Bottom Tray Length
E = Lift Width
F = Lift Length (Closed)
G = Liner Length

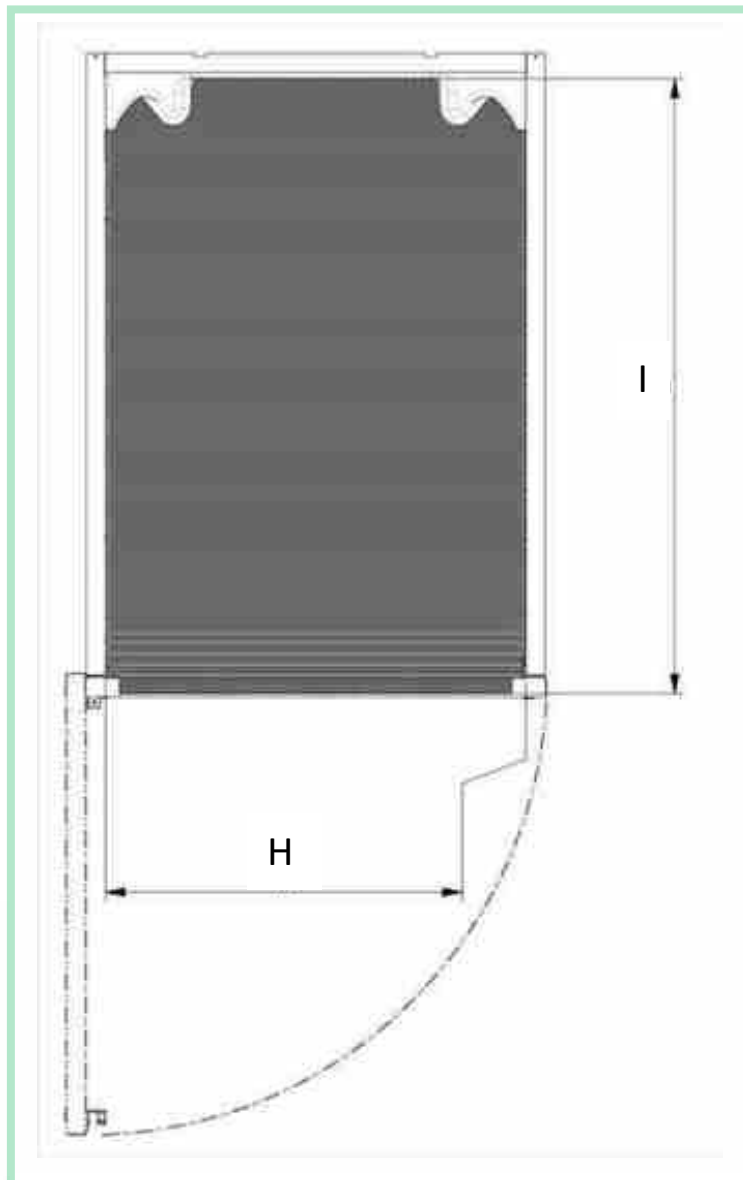
20 Series – Through floor lift – Specification

Product Footprint

Dimension >	A	B	C	D	E	F	G
Lift							
750x1100	975	2135	896	1390	818	1355	1425
750x1100 (SH)	1300	2020	1230	1065	1150	1020	1100
750x1175	975	2210	896	1465	818	1430	1500
750x1250	975	2285	896	1540	818	1505	1575
800x1100	1025	2185	946	1390	868	1355	1425
800x1175	1025	2260	946	1465	868	1430	1500
800x1175 (SH)	1375	2145	1305	1115	1225	1070	1475
800x1250	1025	2335	946	1540	868	1505	1575
800x1400	1025	2500	946	1705	868	1670	1740
850x1100	1075	2235	996	1390	918	1355	1425
850x1175	1075	2310	996	1465	918	1430	1500
850x1250	1075	2385	996	1540	918	1505	1575
850x1400	1075	2550	996	1705	918	1670	1740
V/Seat	830	1590	688	1050	610	1015	1085

20 Series – Through floor lift – Specification

Usable Area



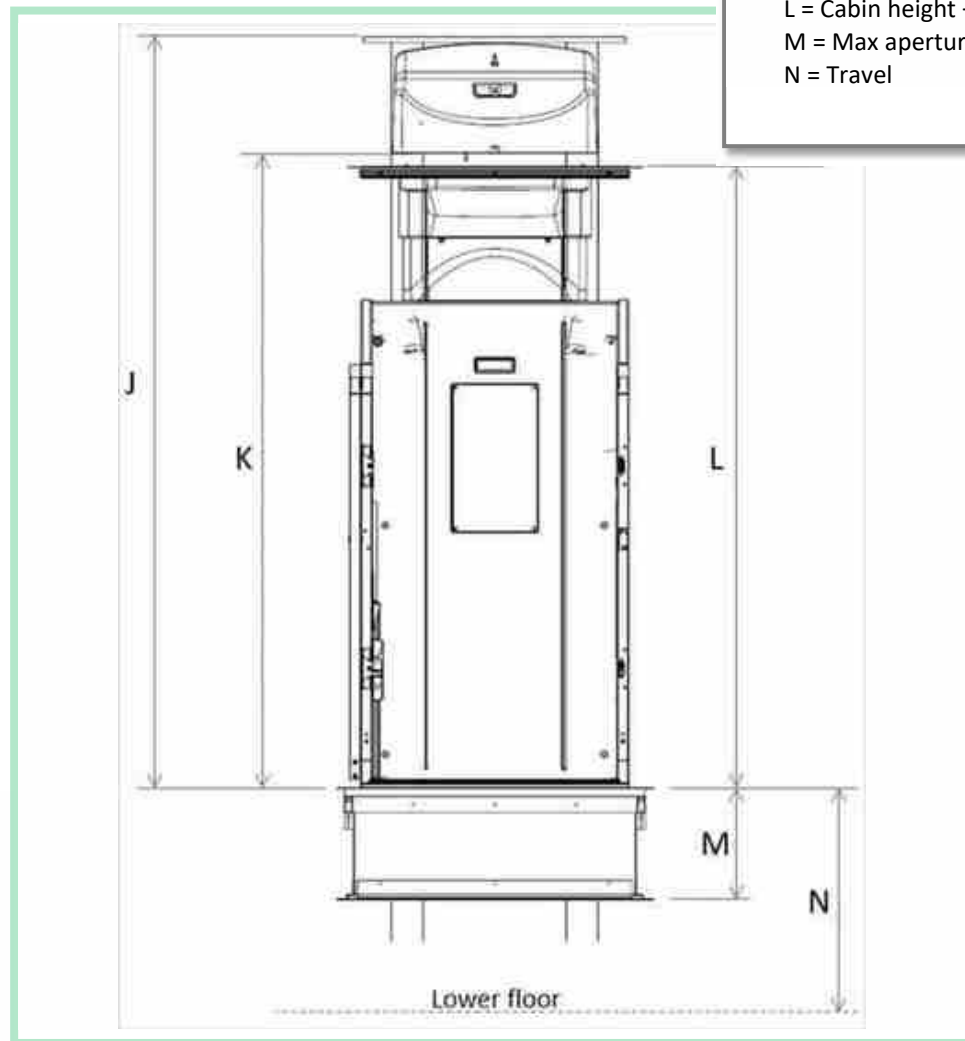
H = Usable Width

I = Usable Length (inc. door well)

Dimension >	H	I
Lift		
750x1100	750	1100
750x1100 (SH)	750	1100
750x1175	750	1175
750x1250	750	1250
800x1100	800	1100
800x1175	800	1175
800x1175 (SH)	800	1175
800x1250	800	1250
800x1400	800	1400
850x1100	850	1100
850x1175	850	1175
850x1250	850	1250
850x1400	850	1400
V/Seat	542	760

20 Series – Through floor lift – Specification

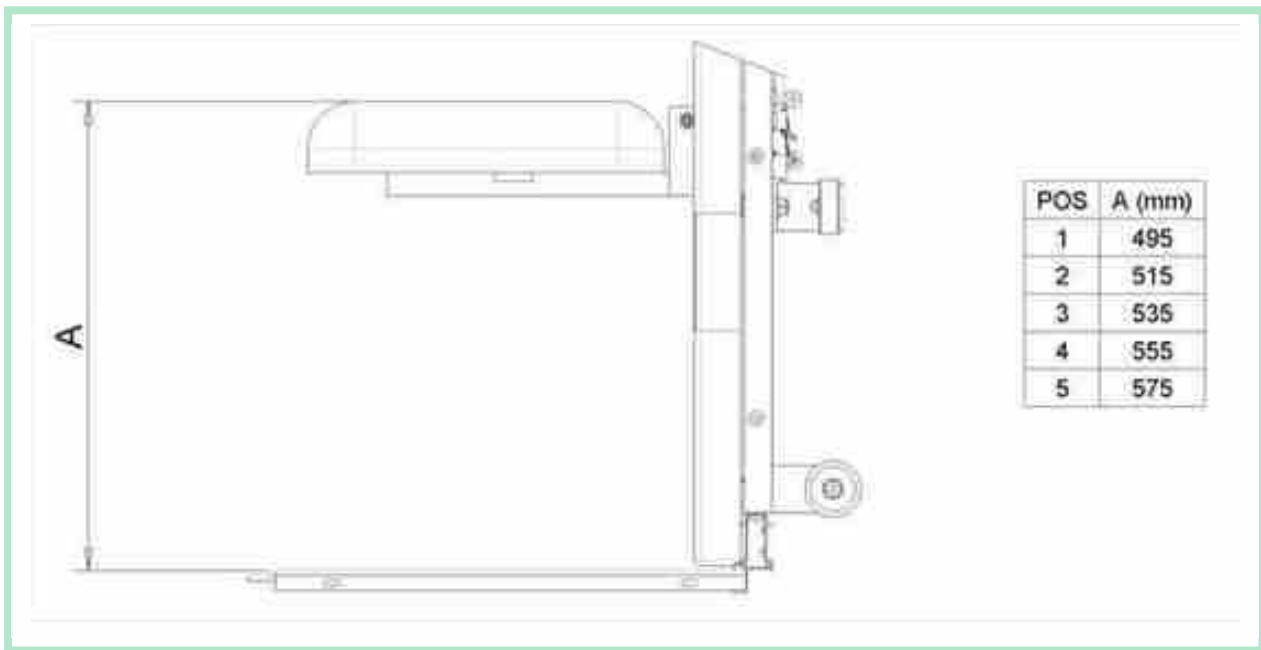
Product Heights



Dimension >	J	K	L	M	N _{min}	N _{max}
Lift						
Traction	2245	1940	1893	450	1945	4200
Hydraulic - 1761	2070	2050*	1925	450	1975	2800
Hydraulic - 1829	2140	2120*	1993	450	2045	3000
Hydraulic - 1979	2290	2270*	2143	450	2195	3200
Hydraulic - 2112	2425	2405*	2276	450	2325	3500

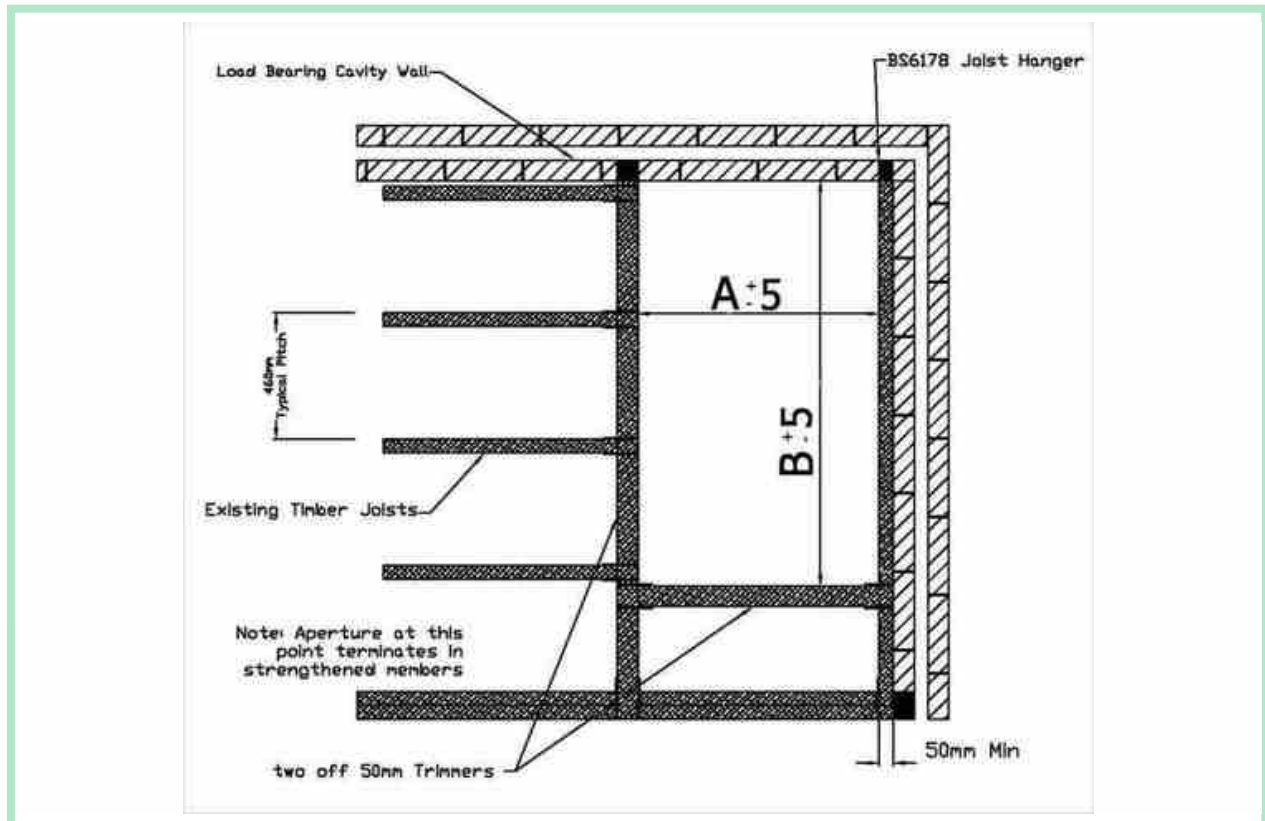
20 Series – Through floor lift – Specification

Seat Height



20 Series – Through floor lift – Specification

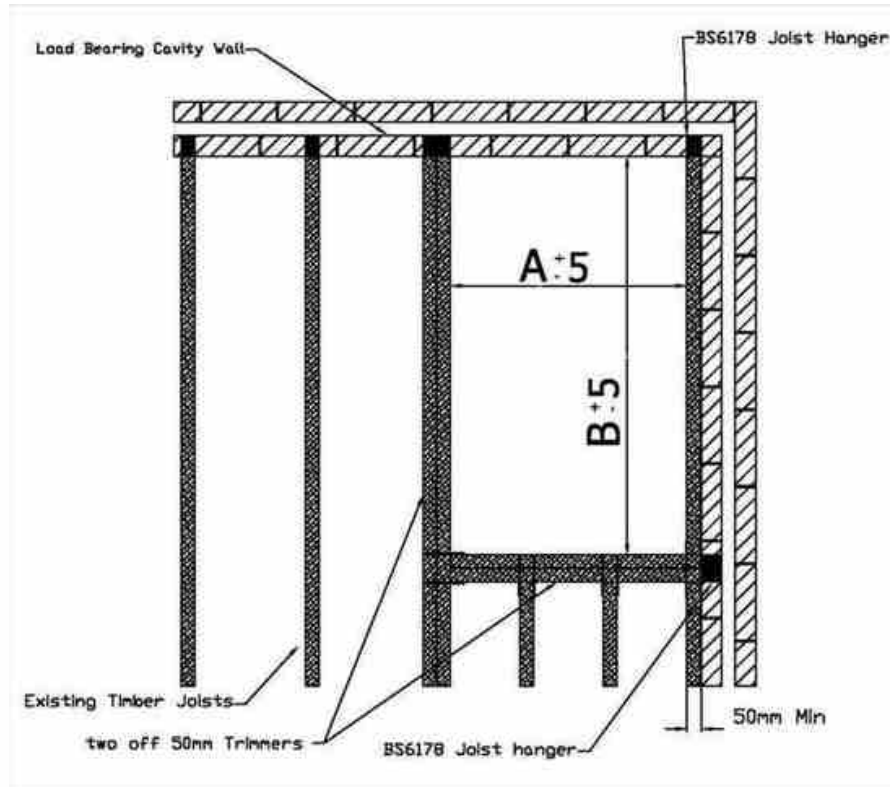
Aperture Drawings



Dimension >	A	B
Lift		
750x1100	930	1400
750x1100 (SH)	1260	1070
750x1175	930	1475
750x1250	930	1550
800x1100	980	1400
800x1175	980	1475
800x1175 (SH)	1335	1120
800x1250	980	1550
800x1400	980	1715
850x1100	1030	1400
850x1175	1030	1475
850x1250	1030	1550
850x1400	1030	1715
V/Seat	722	1065

20 Series – Through floor lift – Specification

Aperture Drawings

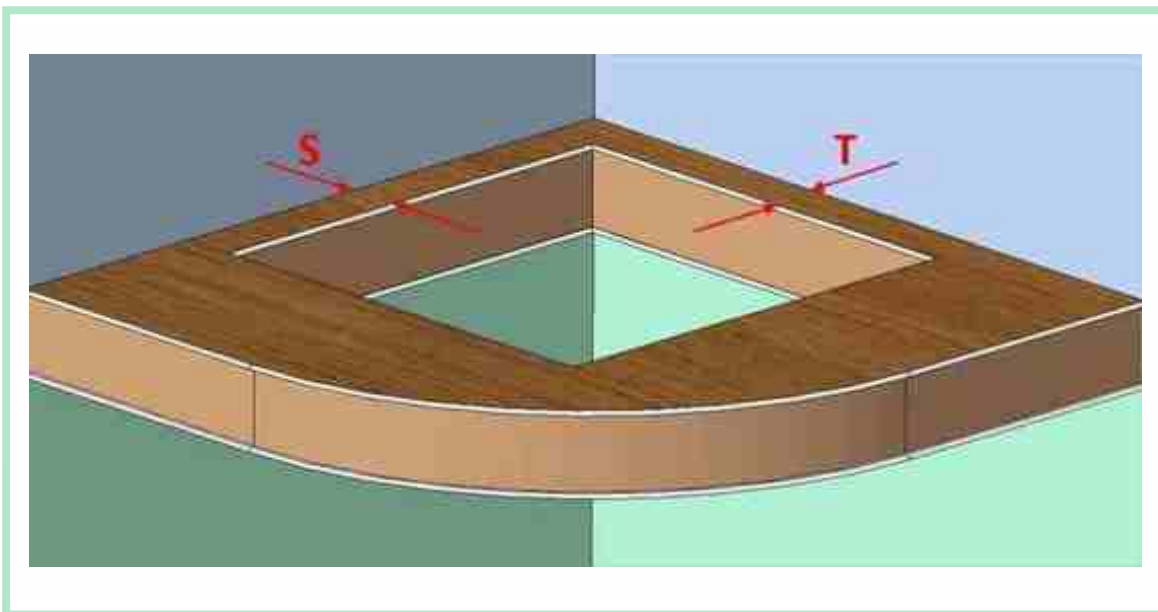


Dimension >	A	B
Lift		
750x1100	930	1400
750x1100 (SH)	1260	1070
750x1175	930	1475
750x1250	930	1550
800x1100	980	1400
800x1175	980	1475
800x1175 (SH)	1335	1120
800x1250	980	1550
800x1400	980	1715
850x1100	1030	1400
850x1175	1030	1475
850x1250	1030	1550
850x1400	1030	1715
V/Seat	722	1065

20 Series – Through floor lift – Specification

Aperture Drawings (aperture position)

S = Min clearance to side wall
T = Min clearance to rear wall



Dimension >		S	T
Lift			
Traction		30	0
Hydraulic		30	40

20 Series – Through floor lift – Specification

Maximum Trapdoor Flooring Thickness & Weight

Lift Size/ Type	Trapdoor Type	Max Thickness (mm)	Max Weight (kg)
542x760 V/Seat	MDF	5	9.5
750x1100	MDF	5	8.0
750x1175	MDF	5	7.0
750x1250	MDF	5	6.0
800x1100	MDF	5	7.0
800x1175	MDF	5	6.0
800x1250	MDF	5	4.5
850x1100	MDF	5	6.0
850x1175	MDF	5	4.5
850x1250	MDF	5	3.0
750x1100 (Side Hung)	MDF	5	9.5
800x1175 (Side Hung)	MDF	5	7.5
800x1400	Aluminium	5	7.0
850x1400	Aluminium	5	6.0

EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

We **Pollock Lifts**
of **Unit 1, Sloefield Drive,
Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim,
N. Ireland, BT38 8GX.**

in accordance with the following Directives:

2006/42/EC	The Machinery Directive
2004/108/EC	The Electromagnetic Compatibility Directive
2006/95/EC	The Low Voltage Directive

Hereby declare that:

Equipment **Pollock HomeLift - Serial No. 201389901**

Has been designed to comply with the with the requirements of the Directives.

Signed by:



Name:

Gerry Garvey

Position:

Engineering Manager

The technical documentation for the machinery is available from:

Name:

Pollock Lifts Ltd

Address:

**Unit 1, Sloefield Drive, Trooperslane Industrial Estate,
Carrickfergus, Co. Antrim, N. Ireland, BT38 8GX.**

Referenced Standards:

BS 7000:2012 - Specification for powered domestic lifts with partially enclosed cars and no lift-well enclosures

Document Revision History

Issue:	Change No.	Description of Change:	Initials:	Date:
A	-----	Initial Release	PTM	10/01/14
B	CR0876	New models added: 800x1400, 850x1400, side hung 750x1100 and 800x1175; New model details added to pg's 2,6,7,8,10 & 11.	PTM	21/01/16
C	CR0908	750x1100 'C' dimension corrected pg7	PTM	13/07/16
D	CR0987	Trapdoor flooring Table added pg13	PTM	04/01/18
E	CR1093	Contents table updated; Pg9 & Pg13 added.	PTM	23/01/20
F	CR1416	Product Specifications will be altered to correct the Operating Temperature Range to +10°C to +40°C	NJ	19/02/25