

# SPECIFYING GUIDE

## TSL500

ED00550F



# Terry Lifts

◆ THE ONE TO TRUST ◆





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## Introduction

Terry Group is an active member of The Lift and Escalator Industry Association (LEIA) and has over 50 years' experience in the design and manufacturer of specialist products for persons with impaired mobility. All work undertaken by Terry Group is carried out to the international quality standard BS EN ISO 9001.

The TSL500 is a hydraulically operated scissor lift capable of lifting 250 Kg up to 500 mm between fixed levels.

Designed and manufactured in accordance with BS6440, the TSL500 is suitable for use by wheelchair users in private domestic dwellings. It is not intended for use by an ambulant person.

The TSL500 standard features include a shallow approach ramp and a low closed height eliminating the need for a pit. In addition to optional handrails, a single bridging step or interlocking gate assembly can also be supplied for use when the rise exceeds 290 mm.

Due to modular construction the TSL500 can be easily installed at an existing door way. A charger pack is fitted to the nearest available power point or fused switch unit and is encased in a specially designed enclosure which also ensures that the lift is permanently connected to earth. It can be installed by a person with no specialist electrical knowledge. No dedicated supply or RCD is required.

Special consideration has also been given to the location and size of controls allowing safe and unaided use by the wheelchair user. For ease the call station rocker switches provide both up and down operation. A remote control enabler option is also available to limit the use of the lift to authorised users only.

The lift is suitable for internal and external locations (excluding coastal applications) and a major feature of the design is that the platform is free-standing, eliminating the need for floor fixings or column supports and thus minimising aesthetic intrusion into the environment. To ensure maximum corrosion protection, the standard finish is a powder coating over zinc plated steel.

The TSL500 is only available with the options detailed in this guide. For requirements which differ from this Specifier's Guide, please contact Terry Group Ltd. for further information.

In addition, Terry Group produce platform lifts suitable for public access and we also offer vertical homelifts and wheelchair access stairlifts.

## End-user / Client and Environmental Considerations

Final lift selection should include full consultation with the client and/or their authorised representative. The following should be discussed and agreement obtained:

- Basic principles of lift operation and safety features.
- Location of lift and ease of access at lower and upper levels.
- Duty cycle (See Page 03 Technical Details).
- Check that the load capacity of 250 kg will not be exceeded.
- Long term suitability of equipment and long term user mobility i.e. will client require/ change wheelchair or become incapable of operating existing controls?
- Overall space requirements of the lift including turning requirements of wheelchair. (Where user is assisted on and off lift, a larger turning circle may be required).
- Location of lift charger box.
- The extent of the intended preparatory work and the time period involved.
- Any deviation from the standard options listed in this specifier's guide must be approved by Terry Group Ltd.
- In the event of a change to client requirements or specification, a new completed survey & specification sheet and quotation would be required rather than modifications to current documents.
- Determine if Local Authority documents are required, e.g. Building Notices and confirm who will be submitting them.

## Standard Lift

RAL 9007 powder-coated finish

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Non-slip aluminium barleyseed deck

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LH or RH power pack

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Platform controls

---

Call station controls

---

Upper level call station control

---

Remote enable fob

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Lift charger box mounted internally

---

Integrated ramp and arrestor bar

## Additional Product Options

Round tubular stainless steel handrails (Must be specified when rise exceeds 290 mm)

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Bridging step

---

Upper gate interlock kit

---

Upper gate and interlock

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Post mounted call station

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Additional remote enable fob(s)

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Remote up / down control

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External charger box (IP rated)

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Alternative coloured lift (any RAL colour available)

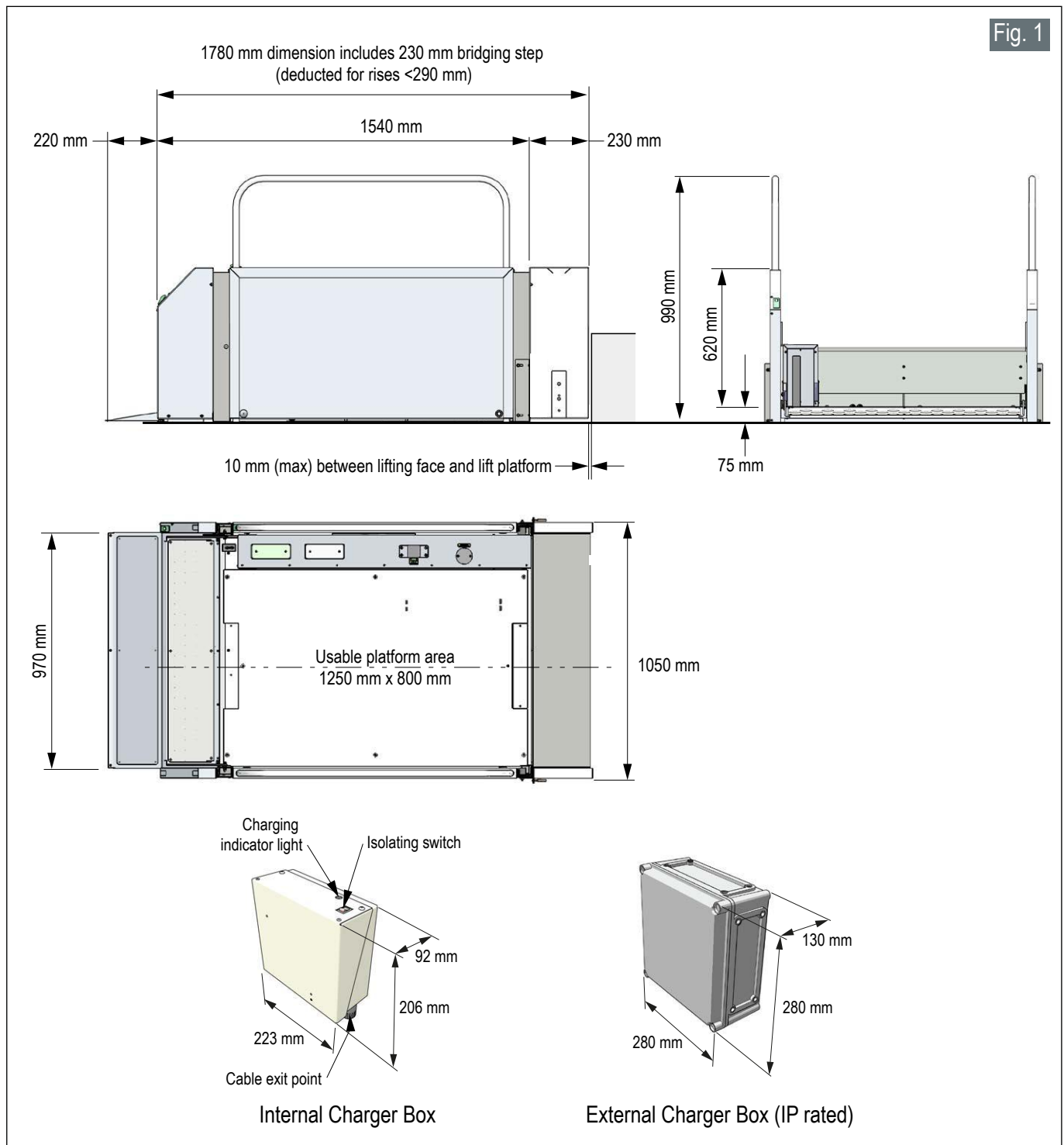


## Technical Details

Application Range	Wheelchair users only. Internal and external locations (excluding coastal applications).
Safe working load	250 kg
Closed height	75 mm
Maximum travel	500 mm
Rated speed	0.06 metres per sec.
Upper level protection requirements	Upper level gate or bridging step required if rise exceeds 290 mm.
Power Supply	100/240V ac ~ 50/60Hz - 680mA (max).
Low voltage operating system	12/24V dc
Electrical requirements	Single or double mains socket, or unswitched spur fitted in compliance to local electrical regulations/standards. The lift does not require a dedicated power supply or RCD protection. The lift has full battery back-up, the lift should never be left disconnected from the mains supply for long periods.
Optional radio remote control	3V key fob non-rechargeable coin cell.
Duty Cycle. Normal cycling (maximum)	10 cycles per hour, or 40 cycles in any 24 hour period whichever is the greater.
Safety features	Ramp safe edges.
Hydraulic oil grade	T22
Temperature Range	-10°C to + 40 °C
Lifting mechanism	Fully enclosed hydraulic scissor arms.
Design and manufacturing Standard	BS6440, UKCA & CE Mark.

Terry Lifts' policy is one of continuous product development and the company reserves the right to change specifications without notice.

## Lift Dimensions



## Weights and Boxed Dimensions

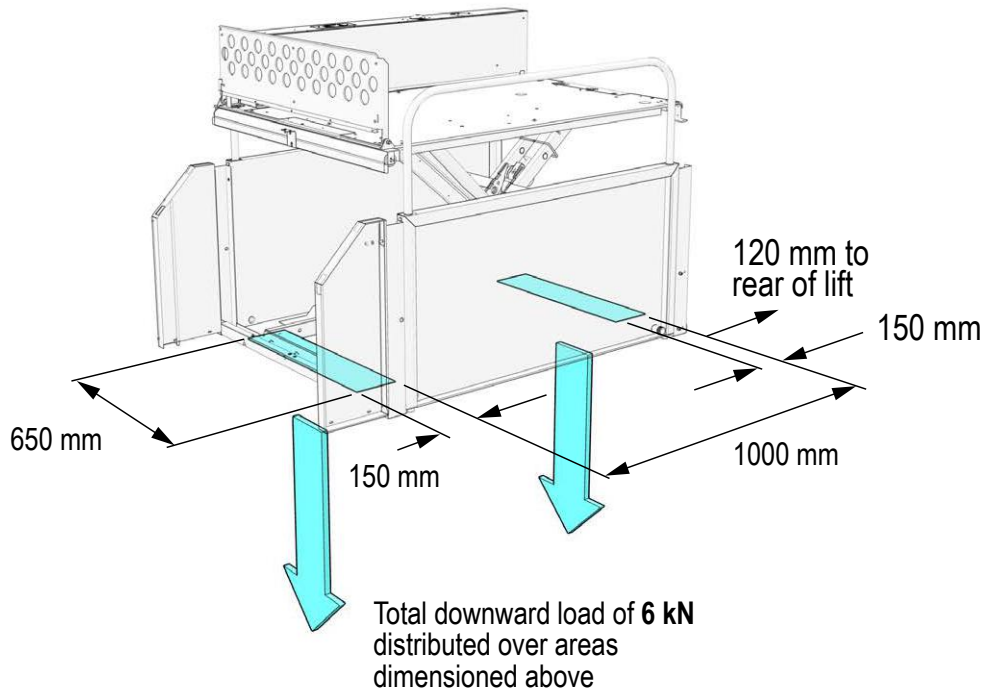
Configuration	Boxed size (mm)	Boxed weight on pallet (kg)
Lift only	1580L x 1220W x 620H	258.2
Lift + Single Bridging Step	1580L x 1220W x 620H	272.8



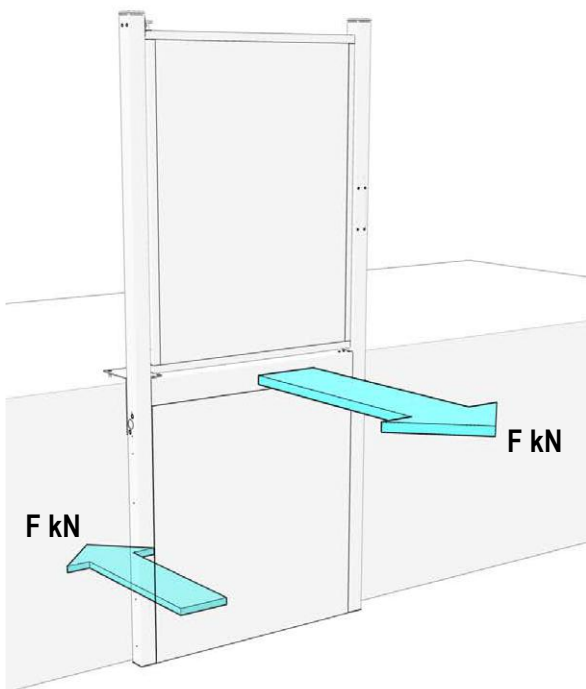
Loadings

Fig. 2

Base loadings



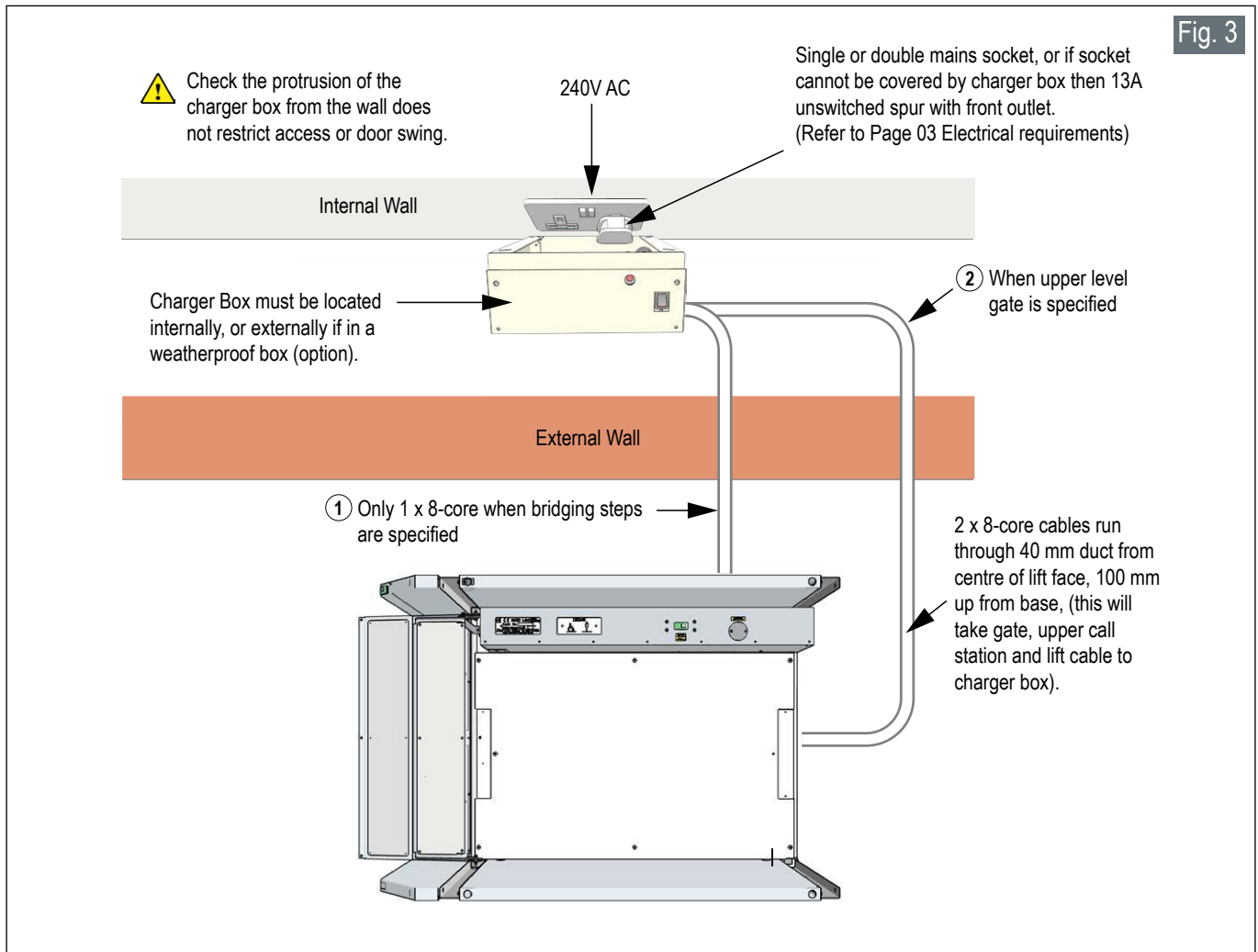
Gate loadings



Travel (mm)	F kN
< 400	5.5
400-600	3.7
600-800	2.2
800-1000	2.3

(To comply to BS6399 Loadings for Buildings)

## Schematic Cable Run



## Duct Positions

- !** All ducts to have swept elbows and a substantial draw cord fitted.  
If duct not provided surface trunking and flexible hosing will be used.

### Charger box duct

- ① When bridging step is specified, 1 x 40 mm duct from either side of the lifting face going back to charger box.
- ② When upper level gate is specified, 1 x 40 mm duct from the centre of the lift face, 100 mm up from the base going back to the charger box.

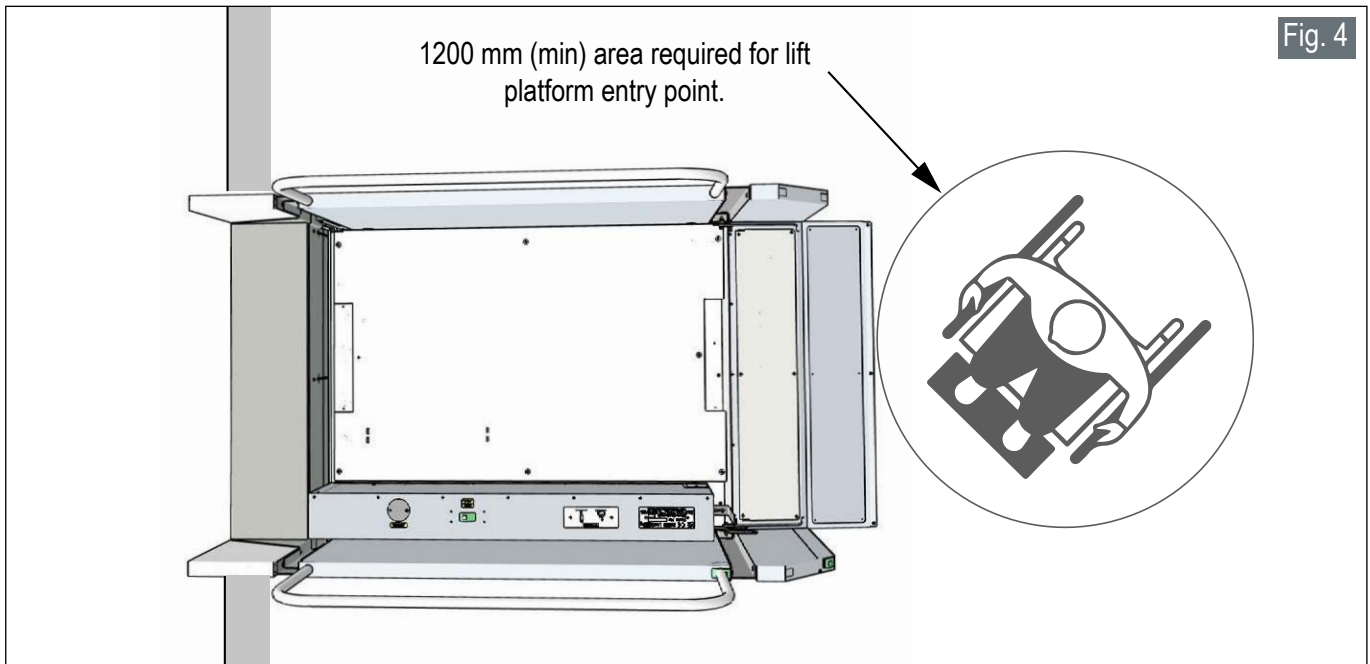
### Upper call station duct

- If wall mounted upper call station, then 1 x 40 mm duct from call station position to the charger box.

### Lower call station duct

- If wall mounted lower call station, then 1 x 40 mm duct from call position preferably to the front corner of the platform/ramp.

### Lower Level Circulation/Rest Area



### Base Preparation

**!** Lift must not be located over external services e.g. mains water stop tap, inspection cover etc.

Dimensions shown with power pack on LHS.  
Reverse if power pack on RHS

A base of either flags, block paving, tarmac or concrete to be level to  $\pm 5$  mm over base area. Drainage grooves position to suit site requirements. 600 mm (max) between grooves. For internal installation fit 18 mm plywood base (WBP grade).

Centreline of gate/bridging step/door

615 mm (min)

455 mm (min)

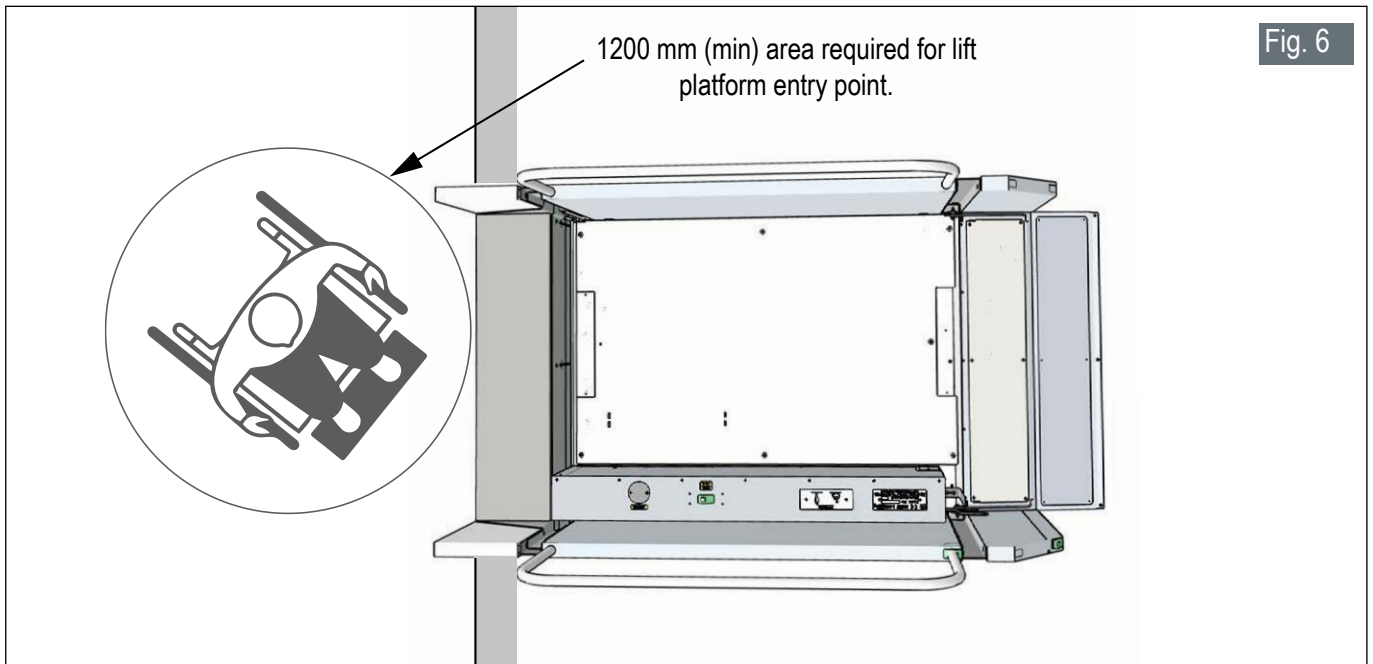
'A' Base length

'B' Base width

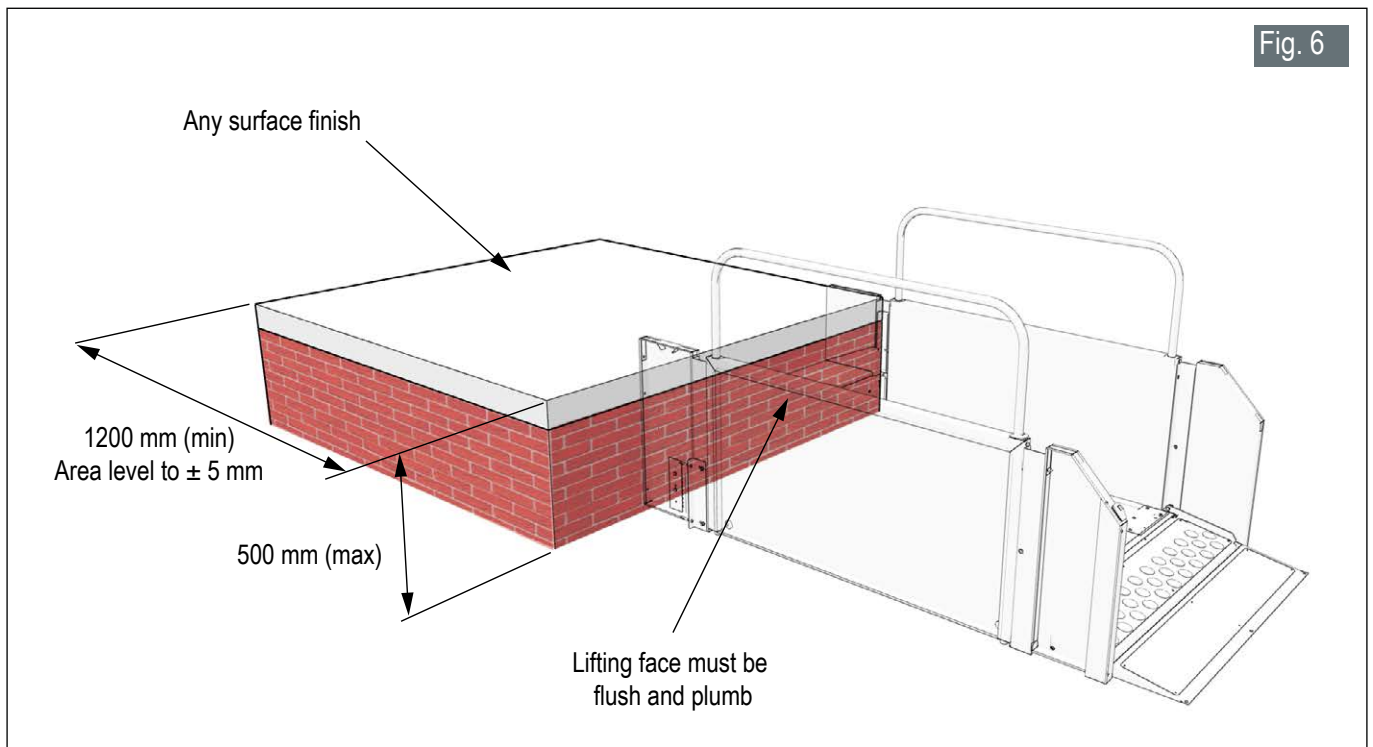
TSL500	'A' (min) mm	'B' (min) mm
Lift only (rise < 290 mm)	1780	1070
Lift + Upper Level Gate	1845	1070
Lift + Bridging Step	2100	1070

Fig. 5

## Upper Level Circulation/Rest Area

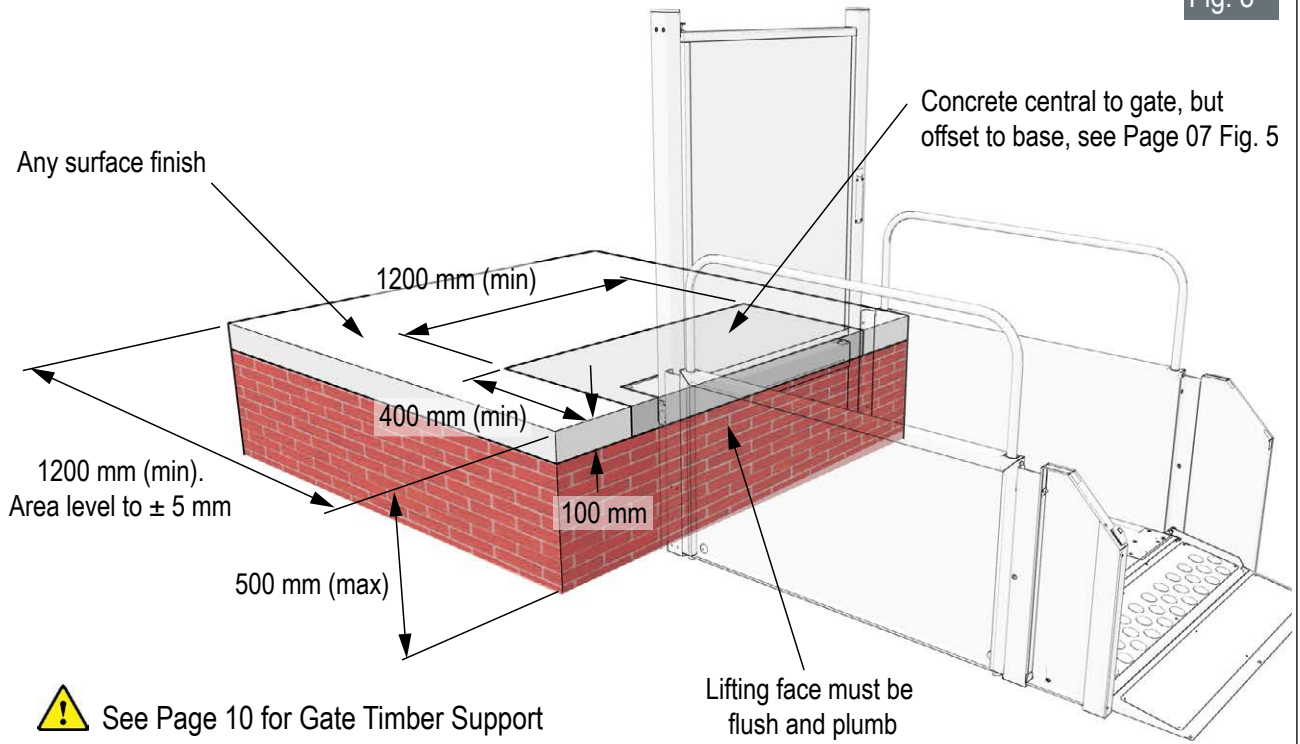


## Landing Area Preparation - Lift only, or with Bridging Step

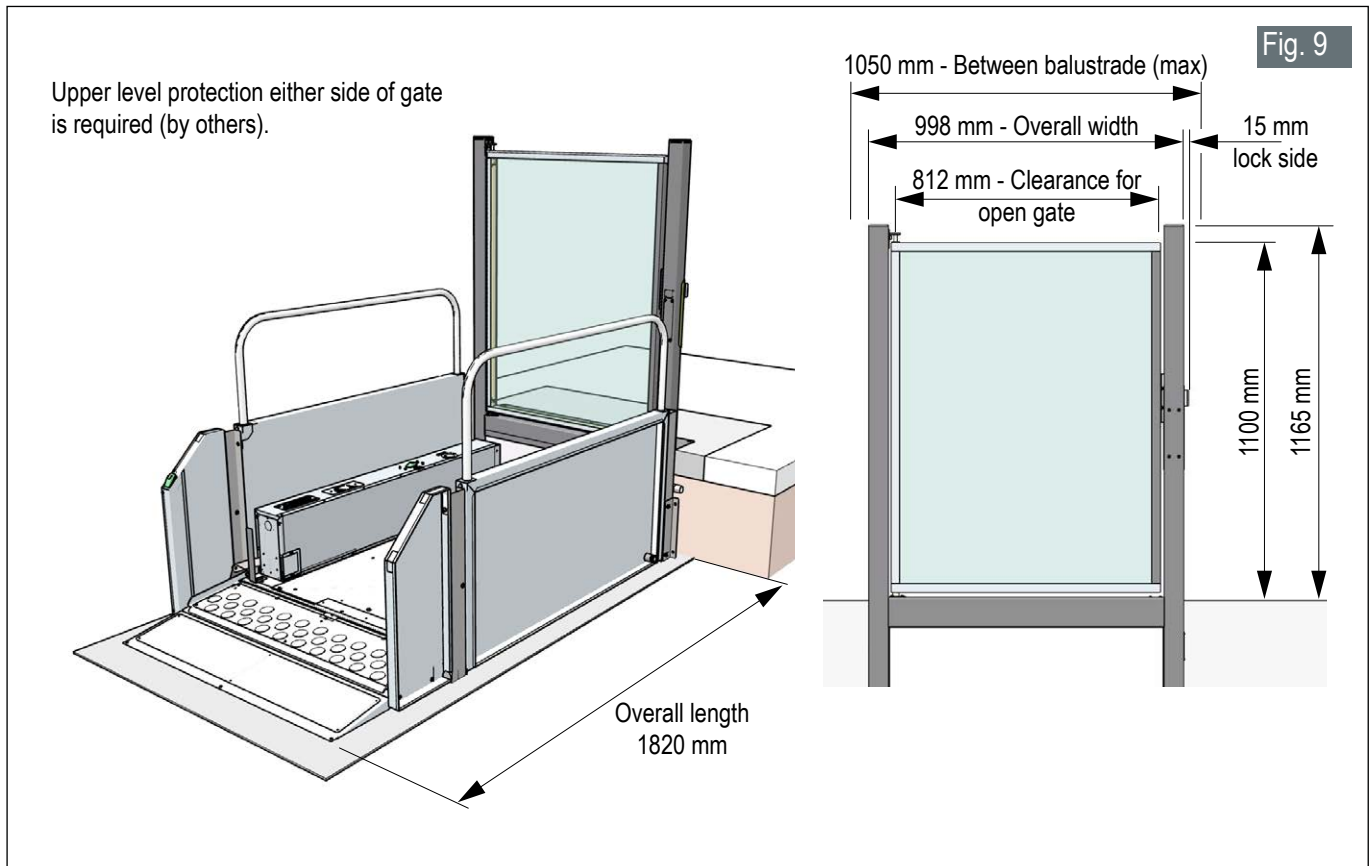


### Landing Area Preparation - Upper Level Gate

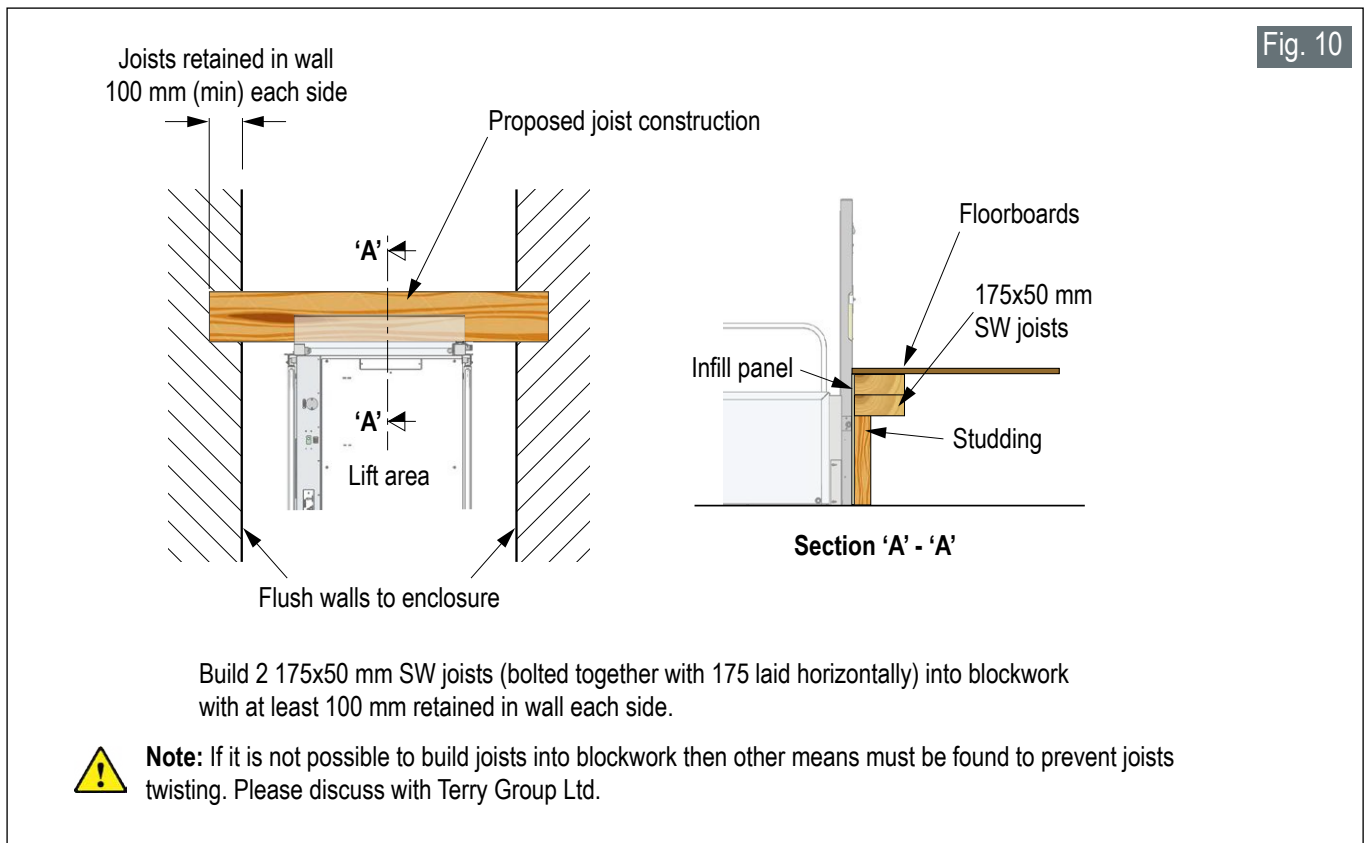
Fig. 8



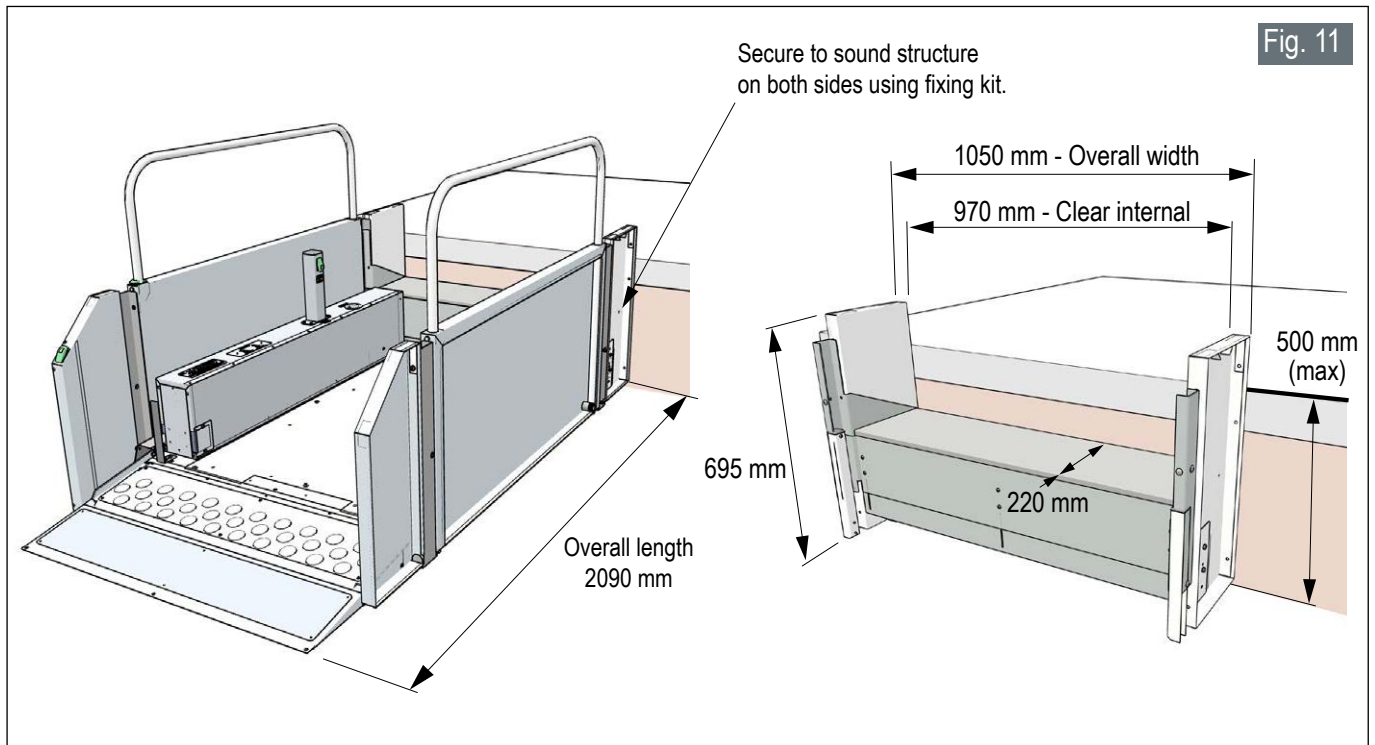
## Upper Level Gate



## Gate Timber Support



## Bridging Step





## Control Details



### Upper level control

Control switch and gate release switch mounted on back face of upper level gate post. Wall control station used if upper level gate is not required.



### Wall station control

Control switch box for mounting on wall structure. Used at upper level when no upper level gate is provided. Used at lower level on pit installations when there is no control post fitted.



### Platform control

Control switch mounted on top of power pack cover.



### Platform control post

Control post mounted on top of power pack cover.



### Lower level control

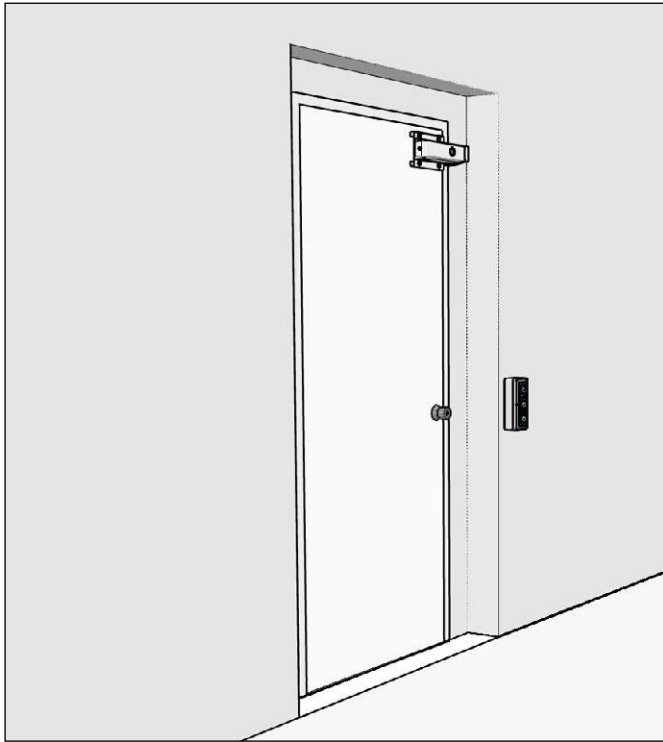
Control switch mounted on ramp side panel.



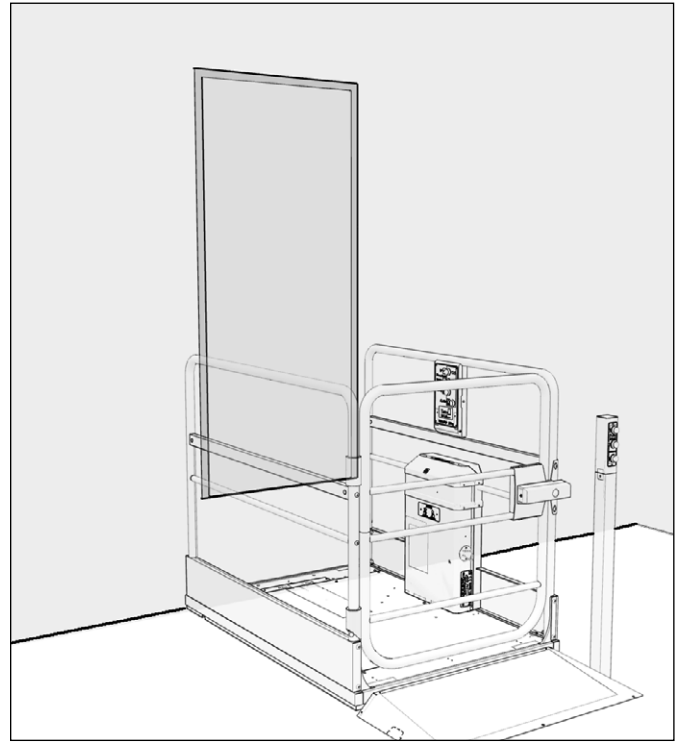
### Remote enable fob

The remote enable fob turns the lift on with a single press of the fob. The lift will stay on until a timer expires (default 6 min). Any subsequent presses of the fob will restart the timer. The remote mode and timer length can be set by an engineer on site to allow a user to get the functionality they require.

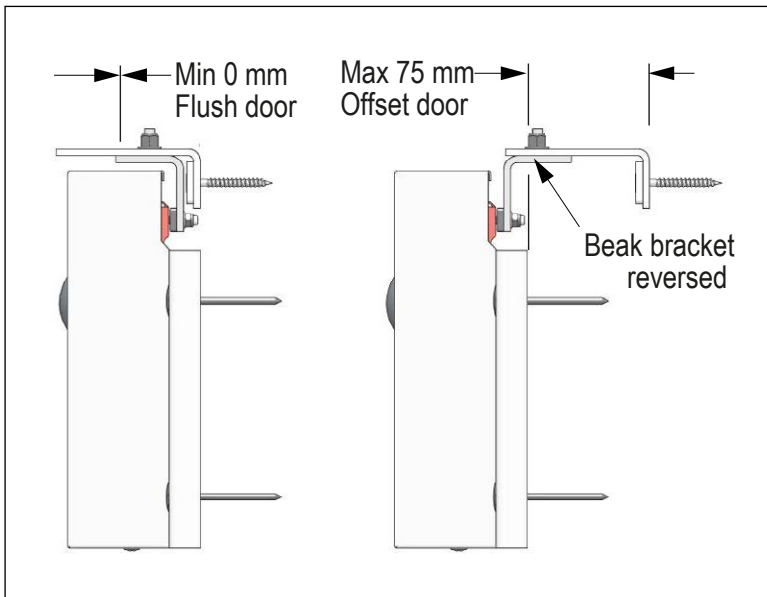
## Interlock Fixing



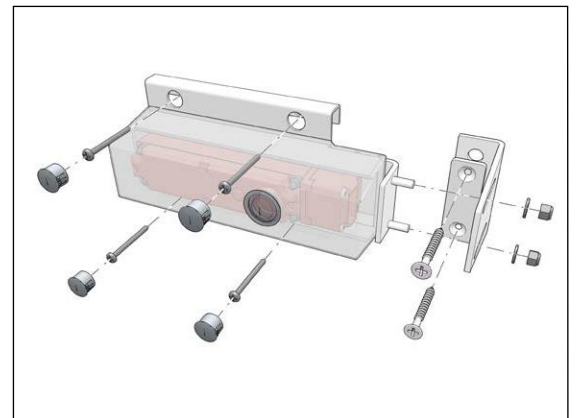
**01** Fit Interlock high up on door to avoid trapping hazard.



**02** Fit Upper Level Call Station at 900mm height adjacent to door. If surface conduit required fit gland to box.



Options for flush or offset doors to a maximum of 75 mm.



Interlock assembly

## Spec Check List

Details specific to lift \_\_\_\_\_

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- Page 14 Site Check Form



Please ensure Site Check List XR00021 is completed and returned to Terry Group Ltd.  
at [installations@terrylifts.co.uk](mailto:installations@terrylifts.co.uk)

## Platform Lift Site Check Form - Refer to the relevant specification guide for detail

TSL 500  TSL1000  Melody 1  Melody 3

### Customer Information

Lift reference	<input type="text"/>		
Customer name	<input type="text"/>		
Location	Address	<input type="text"/>	
		Post Code	<input type="text"/>
Site contact number	<input type="text"/>		

Lift Area		Yes	No	N/A
Checks				
a	Lower base dimensions and construction as per specification guide?	<input type="checkbox"/>	<input type="checkbox"/>	
b	Upper level plinth dimensions and construction as per specifiers guide?	<input type="checkbox"/>	<input type="checkbox"/>	
c	Overall enclosure width (distance between side walls in lift area): <input type="text"/> mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Overall lifting height as per lift specification: <input type="text"/> mm			
e	Lifting face smooth and, where applicable, square to any side retaining walls?	<input type="checkbox"/>	<input type="checkbox"/>	
f	Level rest area in front of the lift at lower level: <input type="text"/> mm			
g	Level rest area in front of the lift at upper level: <input type="text"/> mm			
h	Turning circle at lower level: (min 1200 mm domestic/1500 mm public access) <input type="text"/> mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i	Turning circle at lower upper: (min 1200 mm domestic/1500 mm public access) <input type="text"/> mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j	Upper level balustrade in position: (min. height 1100 mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k	Lift base within +/- 5mm over the full length, fall away from lifting face?	<input type="checkbox"/>	<input type="checkbox"/>	
l	Any ramping to either landing must be no greater than 1:12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m	Is a free-standing post required to mount either side of the landing controls? (Is so, specify which landing in additional comments.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n	Any required ducting as per specifiers guide?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o	Any constructed step risers are equal where applicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p	No flags or alternative finish on top of concrete pads when Melody 3 or when the lift has an upper level gate?	<input type="checkbox"/>	<input type="checkbox"/>	
q	Upper level plinth depth (only if upper level gate?) <input type="text"/> mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Electrical		Yes	No
Checks			
a	Power supply installed (dedicated for Melody 3) and live adjacent to power pack position?	<input type="checkbox"/>	<input type="checkbox"/>

Pre Install Criteria - Note: All lifts are delivered in an extra-long wheel base transit van		Yes	No
Checks			
a	Is there suitable offloading access adjacent to the building?	<input type="checkbox"/>	<input type="checkbox"/>
b	Is there suitable access for the transportation of the lift through the building to the lift area?	<input type="checkbox"/>	<input type="checkbox"/>
c	Is a trolley required?	<input type="checkbox"/>	<input type="checkbox"/>
d	Is there available parking for large transit vans close to the site? If not, what parking is available and where?	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the site area clean?	<input type="checkbox"/>	<input type="checkbox"/>
f	Is a site induction required?	<input type="checkbox"/>	<input type="checkbox"/>
g	Are there welfare facilities available on site?	<input type="checkbox"/>	<input type="checkbox"/>
h	Site working hours if applicable? (hh:mm) Start: <input type="text"/> Finish <input type="text"/>		

Additional comments

Required photographs		Yes	No
1	Power supply position.	<input type="checkbox"/>	<input type="checkbox"/>
2	Lift area from a distance at both landings.	<input type="checkbox"/>	<input type="checkbox"/>
3	Power pack / charger box position	<input type="checkbox"/>	<input type="checkbox"/>

Engineer	
Name: <input type="text"/>	Date: <input type="text"/>
Signature: <input type="text"/>	Company: <input type="text"/>

Please send this document and supporting photographs to [installations@terrylifts.co.uk](mailto:installations@terrylifts.co.uk).  
For any queries, please call 01565 650376 - Technical Support



# Terry Lifts

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