

# SPECIFYING GUIDE

## TSL1000

ED10100H



# Terry Lifts

◆ THE ONE TO TRUST ◆

**50**  
YEARS  
DESIGNED &  
MANUFACTURED  
IN BRITAIN



# CONTENTS

## **01 - TSL1000 Specification**

- 01 Introduction
- 02 End-user/Client and Environmental Considerations
- 02 Standard Lift
- 02 Additional Product Options
- 03 Technical Details
- 04 Lift Carriage Dimensions
- 04 Weights and Boxed Dimensions
- 05 Loadings
- 06 Running Clearances
- 08 Schematic Cable Run
- 08 Duct Positions

## **02 - TSL1000 Lower Level Site Preparation**

- 09 Lower Level Circulation/Rest Area
- 09 Base Preparation
- 10 Base Preparation

## **03 - TSL1000 Upper Level Site Preparation**

- 11 Upper Level Circulation/Rest Area
- 11 Landing Area Preparation - Lift only, or with Bridging Step
- 12 Landing Area Preparation - Upper Level Gate

## **04 - TSL1000 Upper Level Gates**

- 13 Upper Level Gate
- 13 Gate Timber Support

## **05 - TSL1000 Bridging Steps**

- 14 Single Bridging Step
- 14 Double Bridging Step
- 15 Triple Bridging Step

## **06 - TSL1000 Controls**

- 16 Control Details

**07 - TSL1000 Interlock**  
17 Interlock Fixing

**08 - Site Check Form**  
18 Platform Site Check Form

**09 - TSL1000 Spec Check List**  
20 Spec Check List

## 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 TSL1000 is a hydraulically operated scissor lift capable of lifting 250 Kg up to 1m between fixed levels.

Designed and manufactured in accordance with BS 6440, the TSL1000 is suitable for use by wheelchair users in private domestic dwellings. It is not intended for use by an ambulant person.

TSL1000 standard features include a shallow approach ramp and a low closed height. A single, double or triple bridging step system or interlocking gate assembly can also be supplied for use when the rise exceeds 290 mm. Other options include an indoor pit.

Due to modular construction the TSL1000 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 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 TSL1000 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 Ltd. 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 and 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

---

Round tubular stainless steel handrails

---

Non-slip aluminium barleyseed deck

---

LH or RH powerpack

---

Platform controls

---

Upper level call station control

---

Remote enable fob

---

Lift charger box mounted internally

---

Integrated ramp and arrestor bar

## Additional Product Options

---

Single, double and triple bridging steps (narrow or wide)

---

Upper gate interlock kit

---

Upper gate and interlock

---

Post mounted lower call station

---

Additional remote enable fob(s)

---

Remote up / down control

---

Pit installation (internal only)

---

External charger box (IP rated)

---

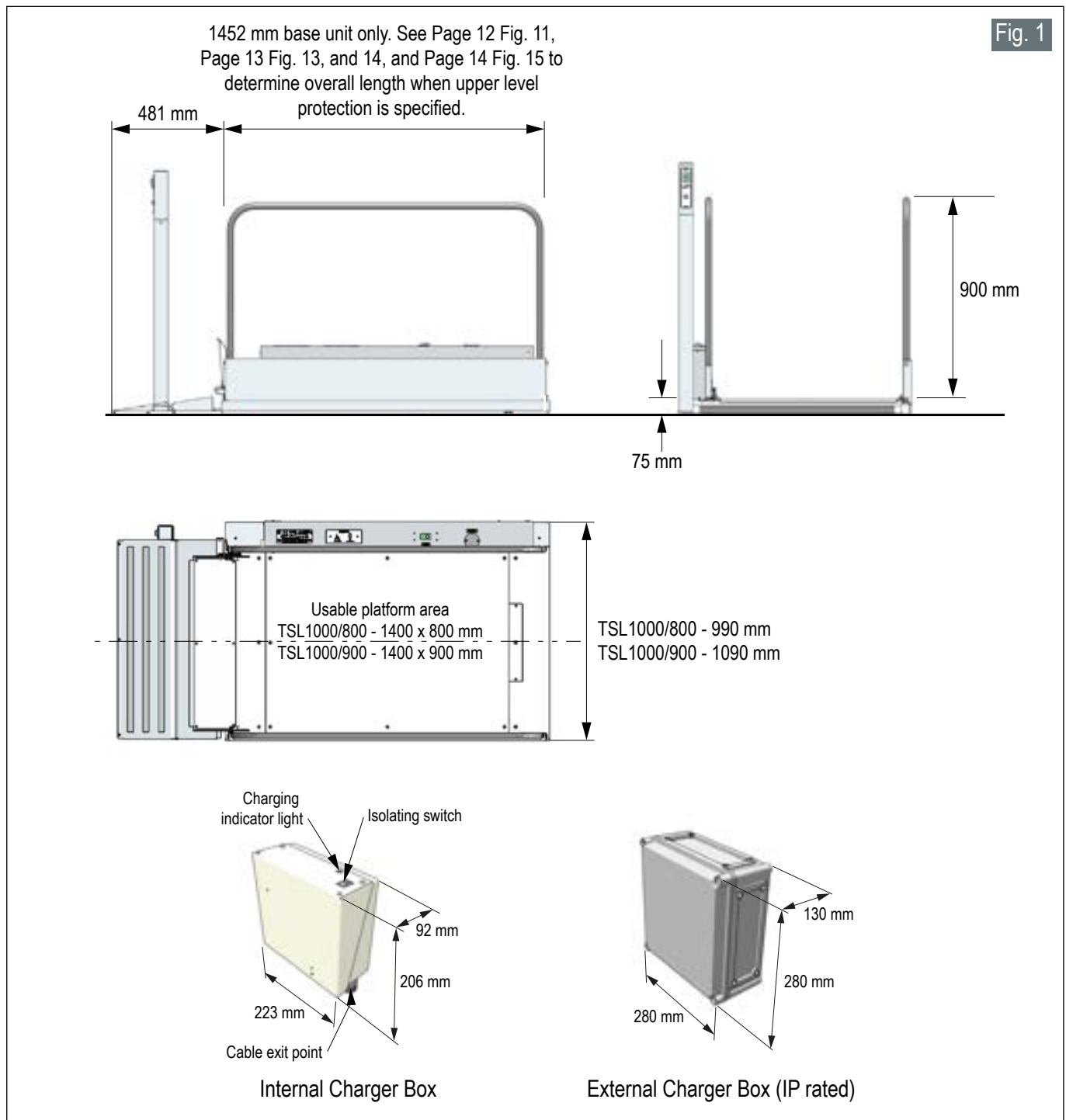
Alternative coloured lift (any RAL colour available)

## 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	1 metre (1000 mm) or 920 mm when in a pit.
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	Full platform and 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



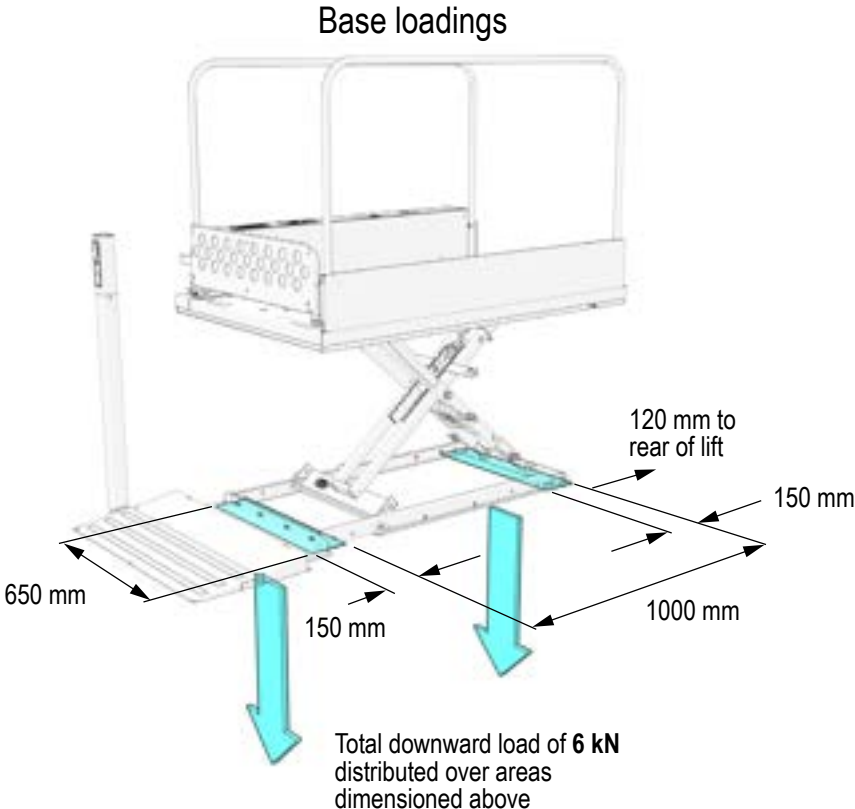
## Weights and Boxed Dimensions

Configuration	Boxed size (mm)	Boxed weight on pallet (kg)
TSL1000	158L 122W 62H	240
TSL1000 + Upper Level Gate	214L 122W 77H	280
TSL1000 + Single Bridging Step	214L 122W 167H	335
TSL1000 + Double Bridging Step	214L 122W 167H	375
TSL1000 + Triple Bridging Step	214L 122W 167H	415

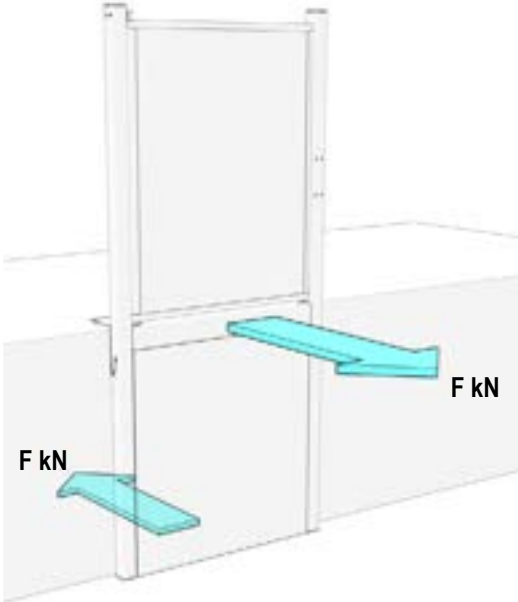


Loadings

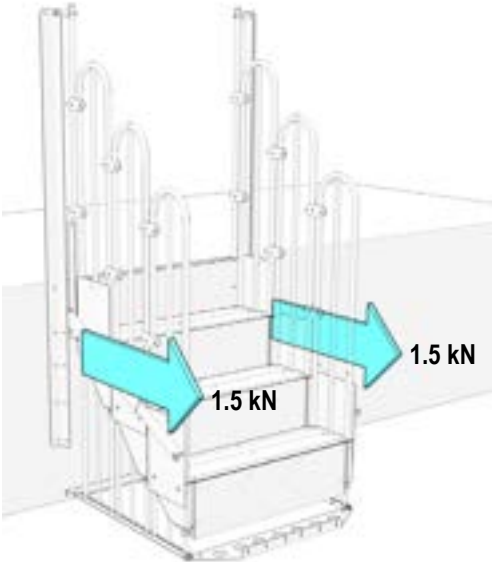
Fig. 2



Gate loadings



Bridge step loadings



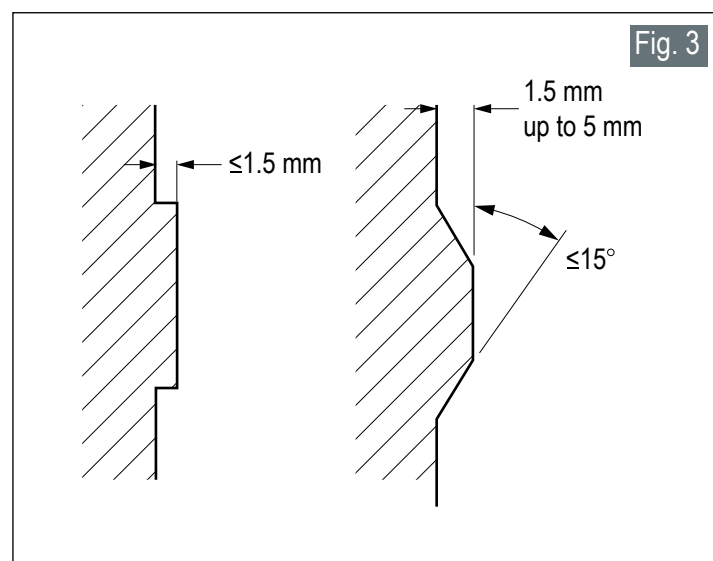
Travel (mm)	F kN
< 400	5.5
400-600	3.7
600-800	2.2
800-1000	2.3

(To comply to BS6399 Loadings for Buildings)

## Running Clearances

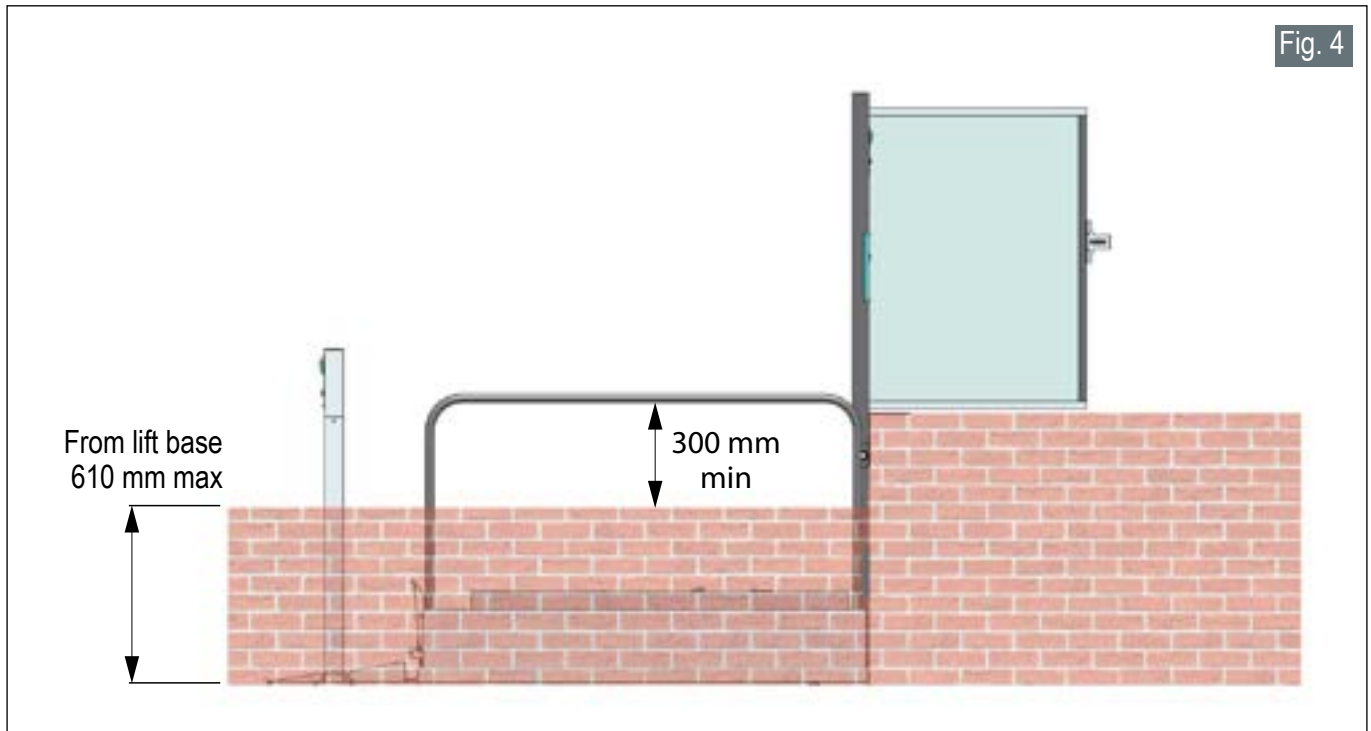
### 1. Adjacent surfaces

- a) For adjacent surfaces 10 mm or less from any part of the lift, any projections on the surfaces shall be as follows figure below.
- b) If they include projections up to 1.5 mm, they may have square corners.
- c) If they include projections from 1.5 mm up to 5 mm, they shall have a minimum of 15° vertical chamfers on all edges.



### 2. Greater than 100 mm and less than 300 mm

- a) Where the enclosure walls are continually smooth and flush and fulfil the requirements of point 1 b/c and continue 1100 mm above the upper level, then the lift can be positioned a minimum of 100 mm away from the walls.
- b) Where the enclosure walls do not fulfil the requirements of point 1 b/c, and have any kind of projections, then the lift must be positioned a minimum of 300 mm way from the enclosure walls.
- c) Where the lift is at the lower level, with less than 300 mm between the underside of the lift handrails and the top of the enclosure walls then the lift must be positioned 300 mm away from the enclosure walls
- d) Where the below can be achieved, the lift can be fitted a minimum of 100 mm from the enclosure walls.



### 3. Greater than 300 mm

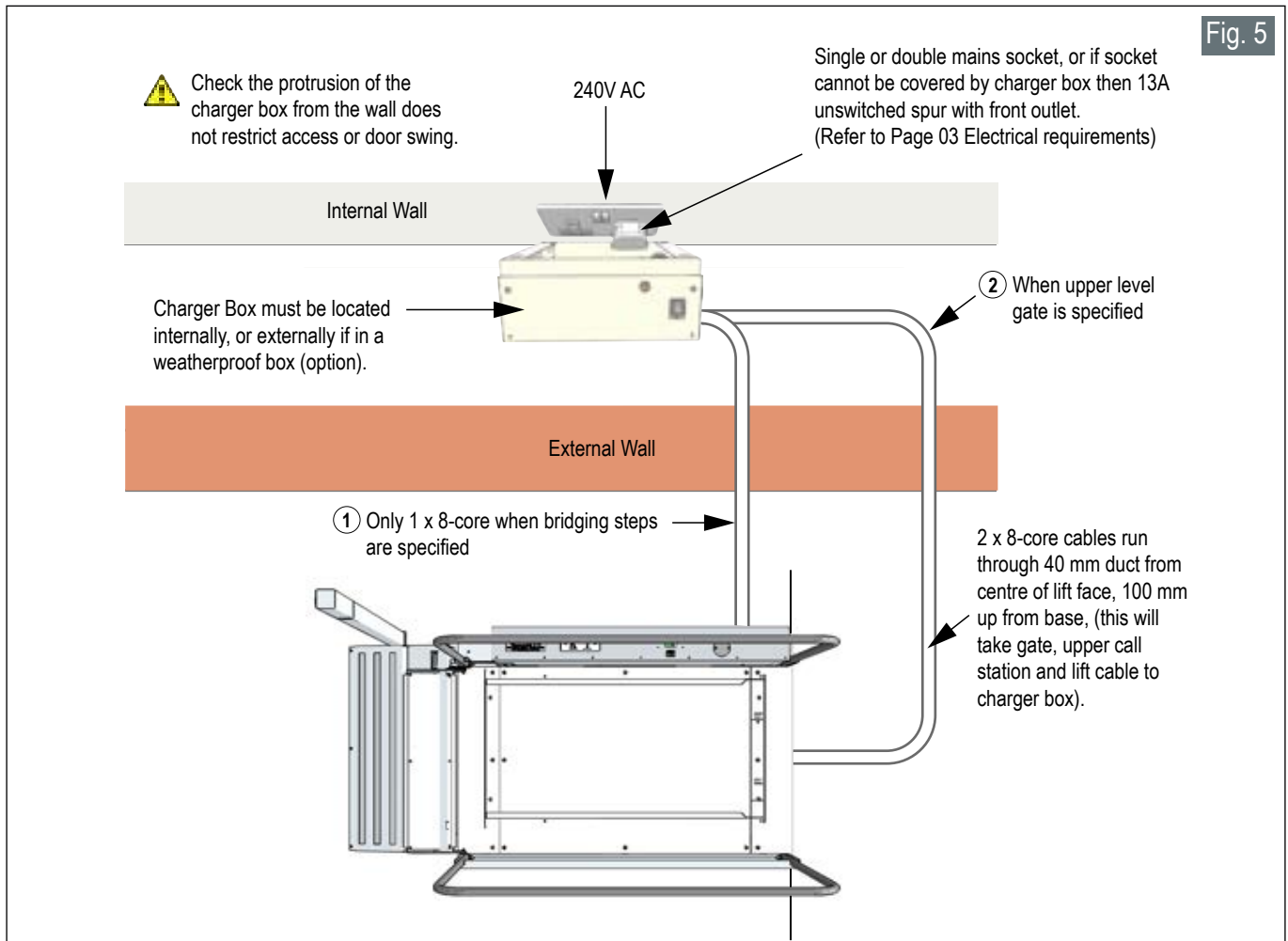
- a) The lift can be installed with greater than 300 mm on either side, although a risk assessment of the immediate surrounding area must always be carried out.

At survey stage, it is important to always consider and discuss any handrails, walls or fences that may be erected post installation and advise accordingly of the required clearances. If they are erected post installation, there could be a problem during the first service where the lift could be potentially isolated.

#### Examples of common projections:

- Coping stones
- Cappings
- Drainpipes
- Windowsills
- Outward opening windows
- Taps
- Wall vents
- Outlet pipes
- Electrical conduits/trunking
- Gas / water pipes
- Handrails
- Fencing
- Wall lights

## 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 steps are 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.

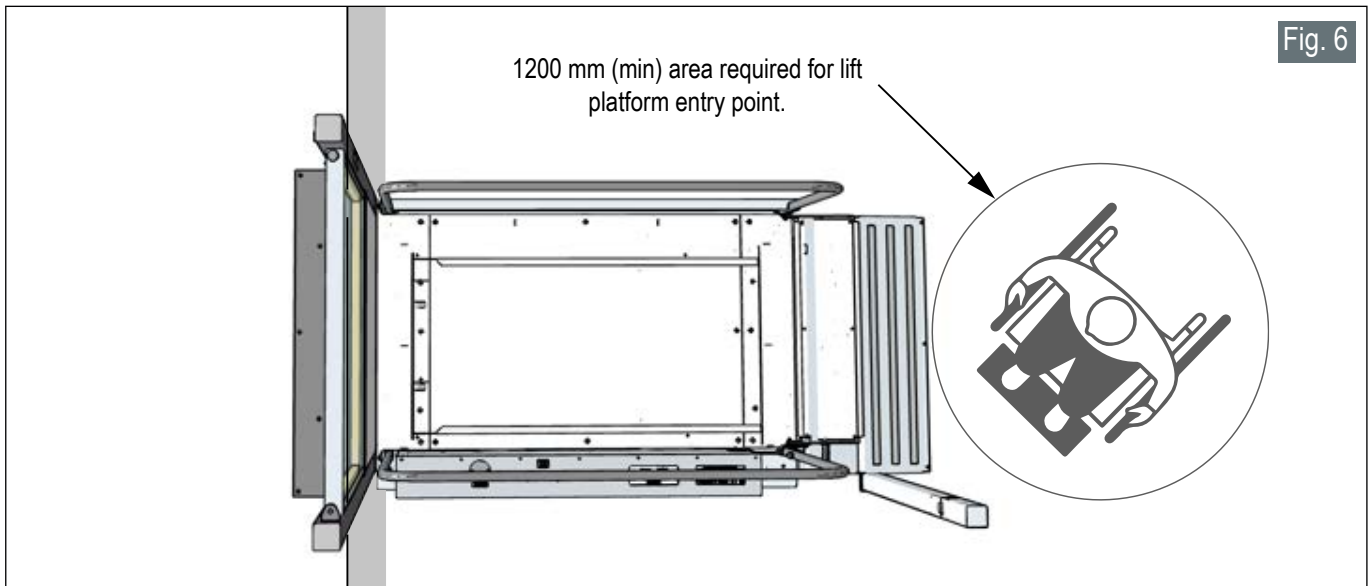
### Upper call station duct

- 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 powerpack on LHS.  
Reverse if powerpack on RHS

100 mm (min) thick concrete base 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/door

TSL1000/800 555 mm (min)  
TSL1000/900 605 mm (min)

TSL1000/800 455 mm (min)  
TSL1000/900 505 mm (min)

'A' Base length

'B' Base width

Fig. 7

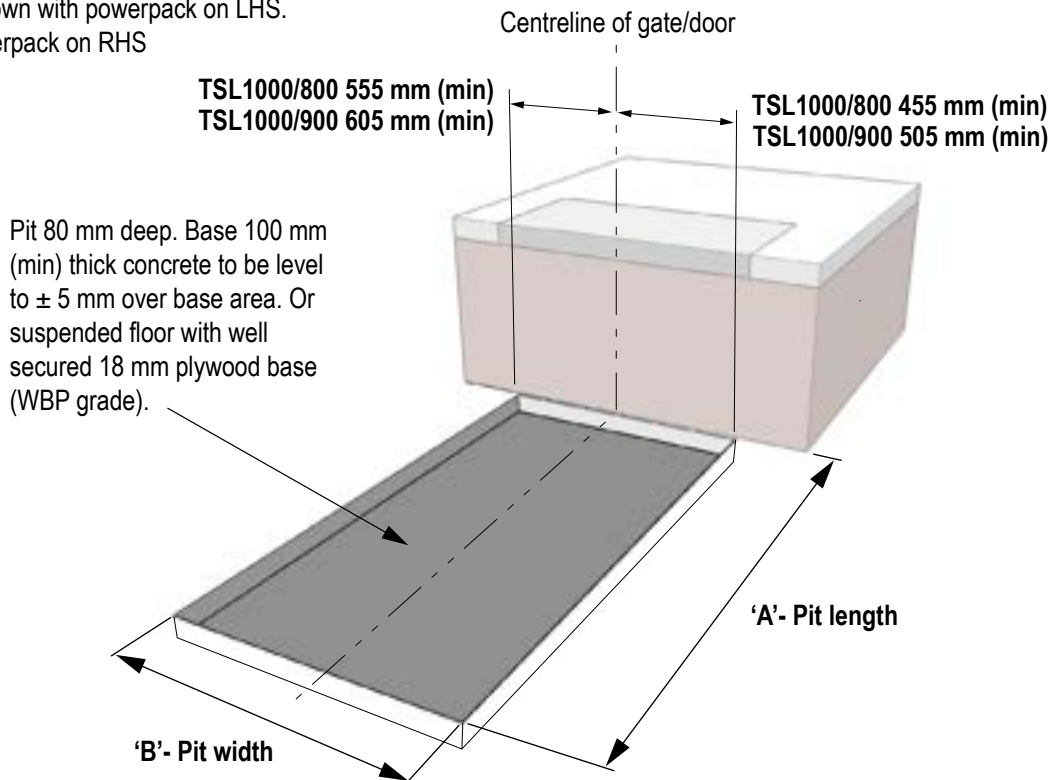
TSL1000 800 mm wide	'A' (min) mm	'B' (min) mm	TSL1000 900 mm wide	'A' (min) mm	'B' (min) mm
Lift only (rise < 290 mm)	1953	1010	Lift only (rise < 290 mm)	1953	1110
Lift + Upper Level Gate	2026	1010	Lift + Upper Level Gate	2026	1110
Lift + Single Bridging Step	2210	1010	Lift + Single Bridging Step	2210	1110
Lift + Double Bridging Step	2525	1010	Lift + Double Bridging Step	2525	1110
Lift + Triple Bridging Step	2780	1010	Lift + Triple Bridging Step	2780	1110

**!** Consideration to be given to the lift clearances when positioning the lift base. See Page 06 Running Clearances.

## Pit Preparation (Internal only)

Fig. 8

Dimensions shown with powerpack on LHS.  
Reverse if powerpack on RHS

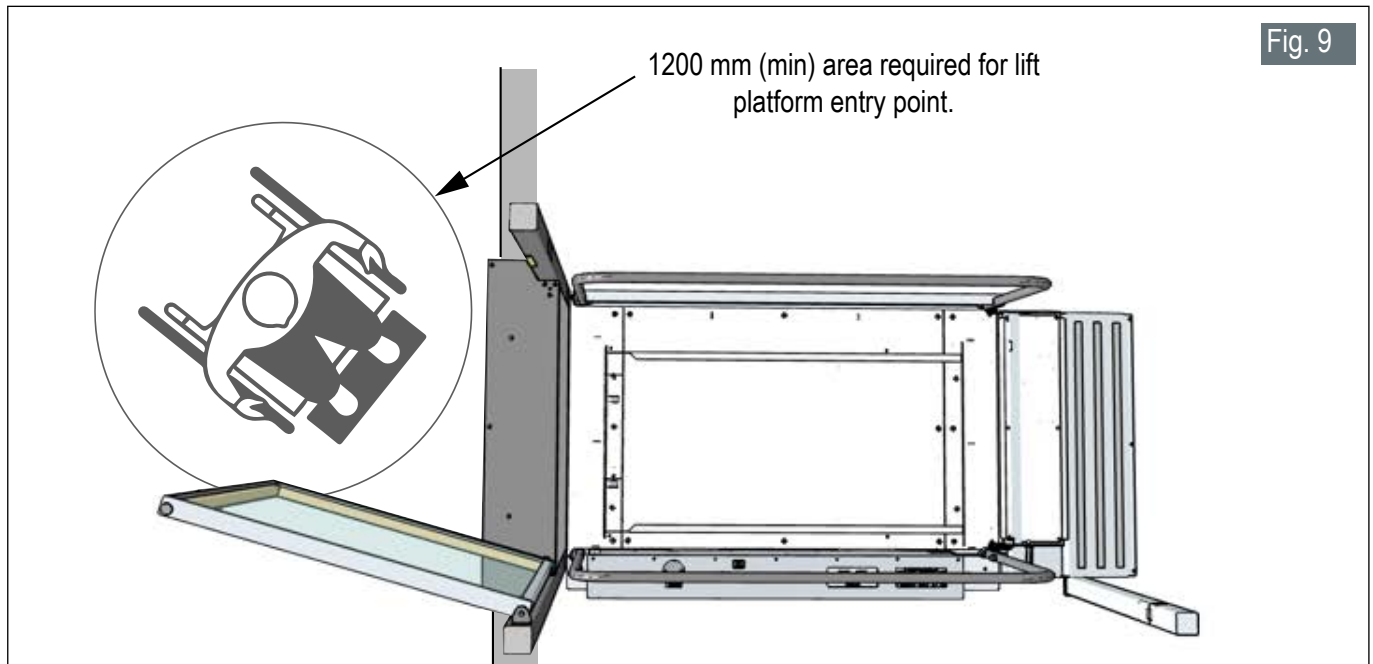


TSL1000 800 mm wide	'A' (min) mm	'B' (min) mm	TSL1000 900 mm wide	'A' (min) mm	'B' (min) mm
Lift only (rise < 290 mm)	1470	1010	Lift only (rise < 290 mm)	1470	1110
Lift + Upper Level Gate	1535	1010	Lift + Upper Level Gate	1535	1110
Lift + Upper Level Gate + Arrestor Bar	1580	1010	Lift + Upper Level Gate + Arrestor Bar	1580	1110
Lift + Single Bridging Step	1737	1010	Lift + Single Bridging Step	1737	1110

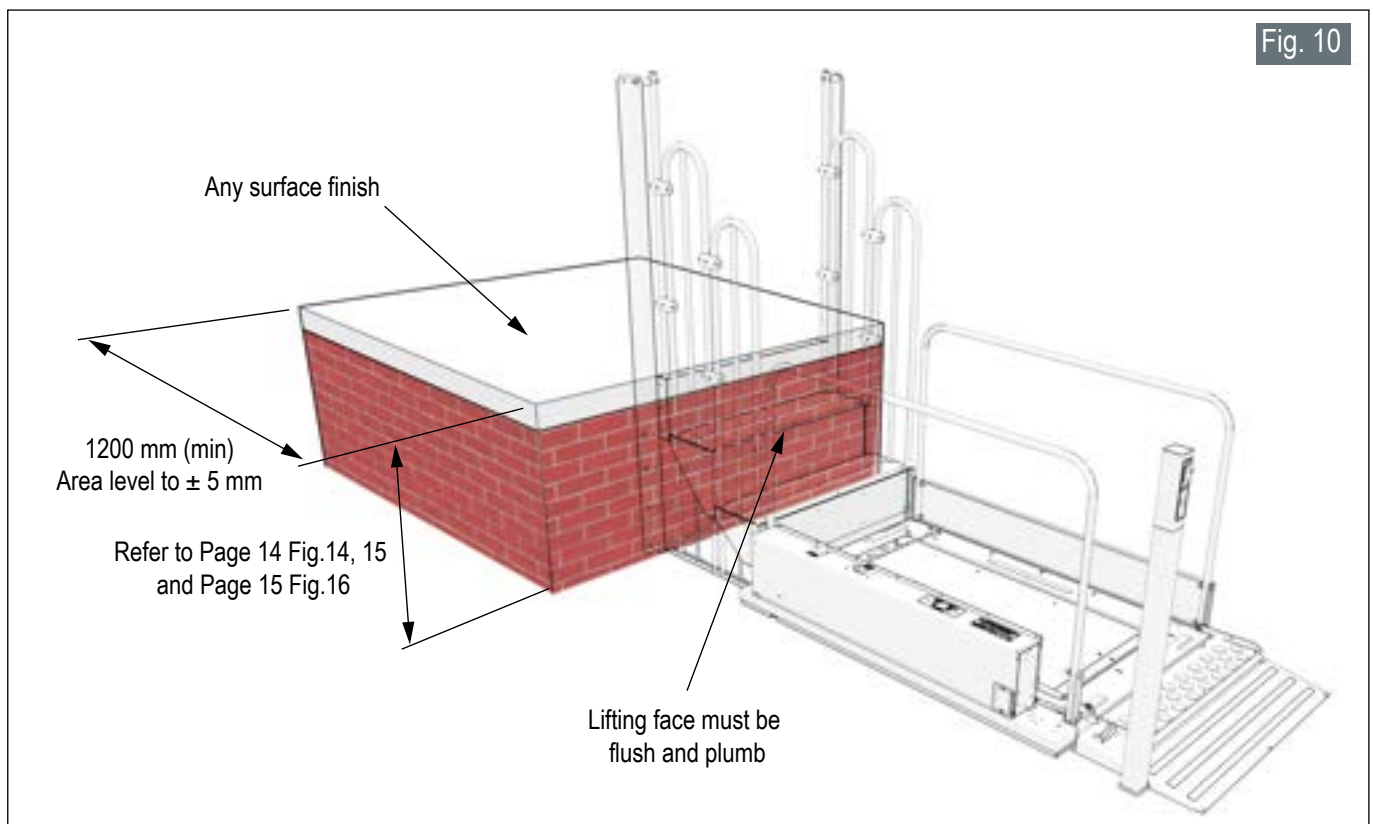


Consideration to be given to the lift clearances when positioning the lift base. See Page 06 Running Clearances.

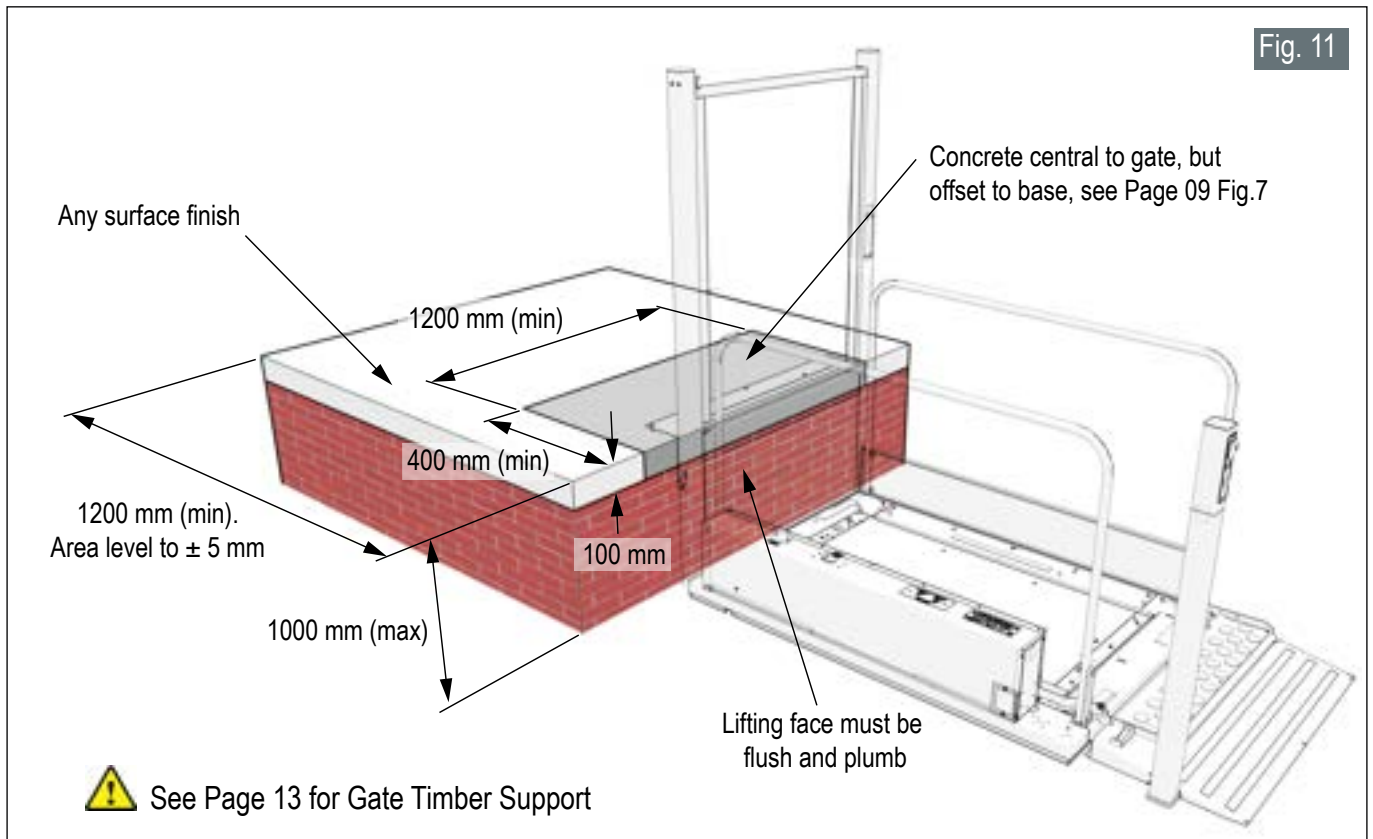
## Upper Level Circulation/Rest Area



## Landing Area Preparation - Bridging Steps

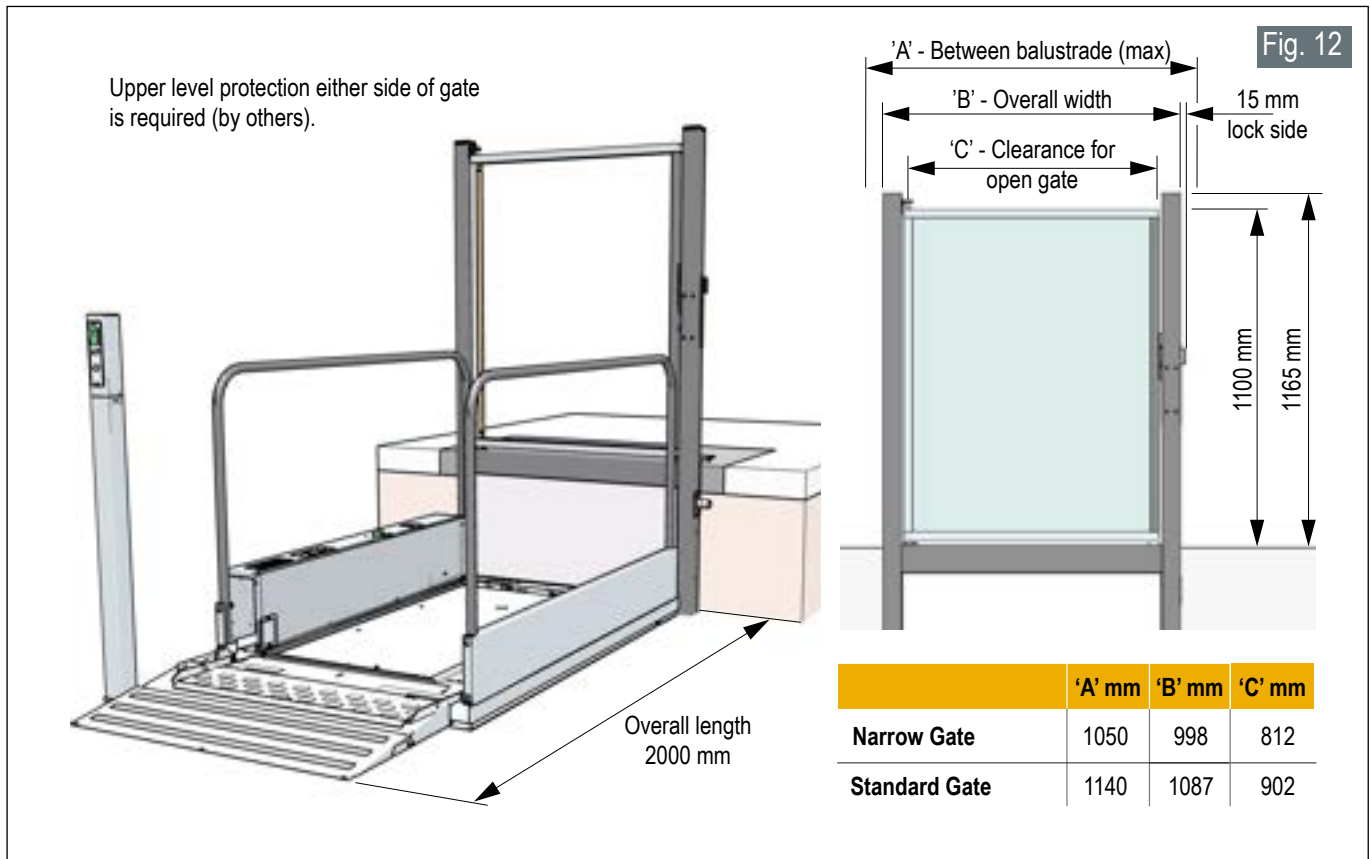


## Landing Area Preparation - Standard or Narrow Upper Level Gate

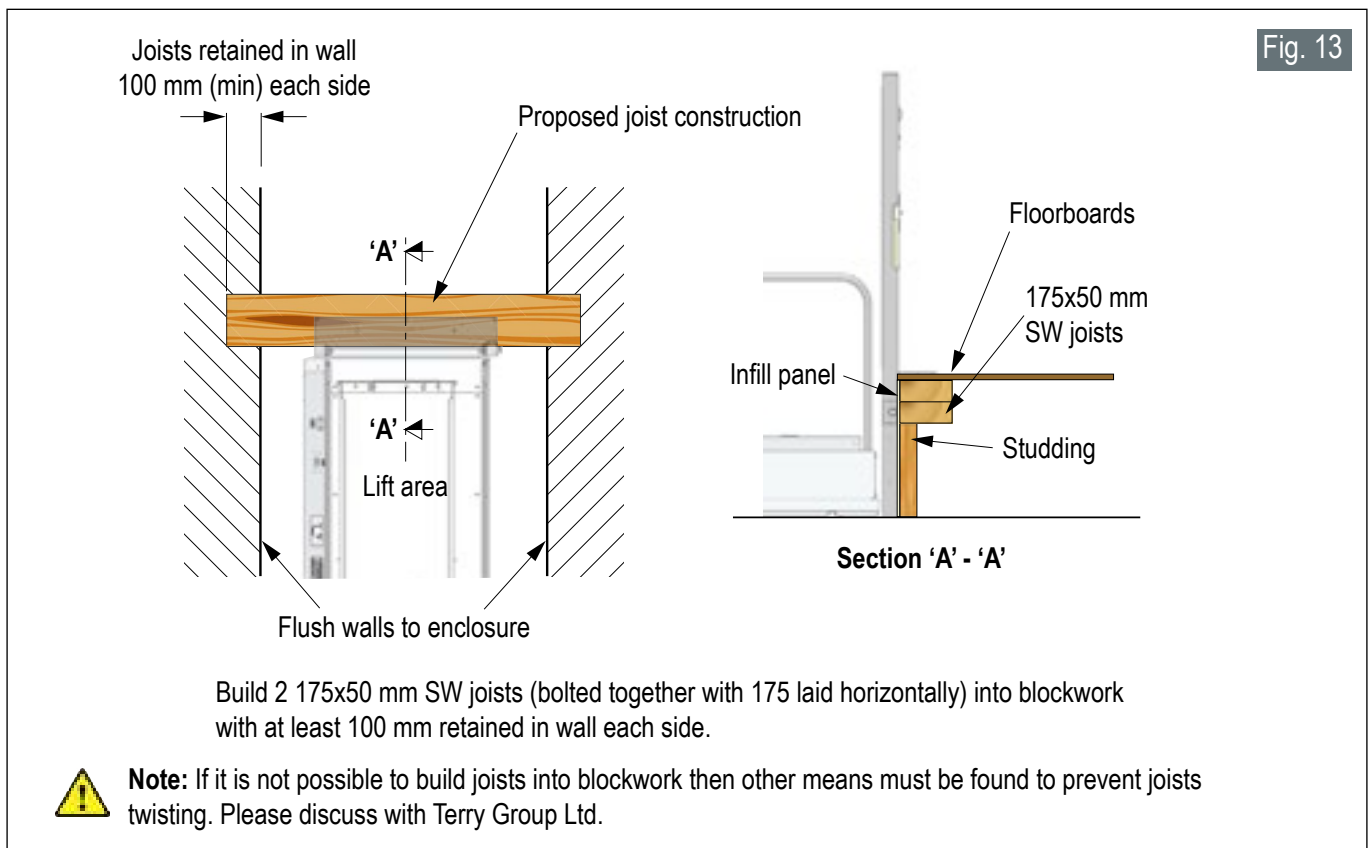




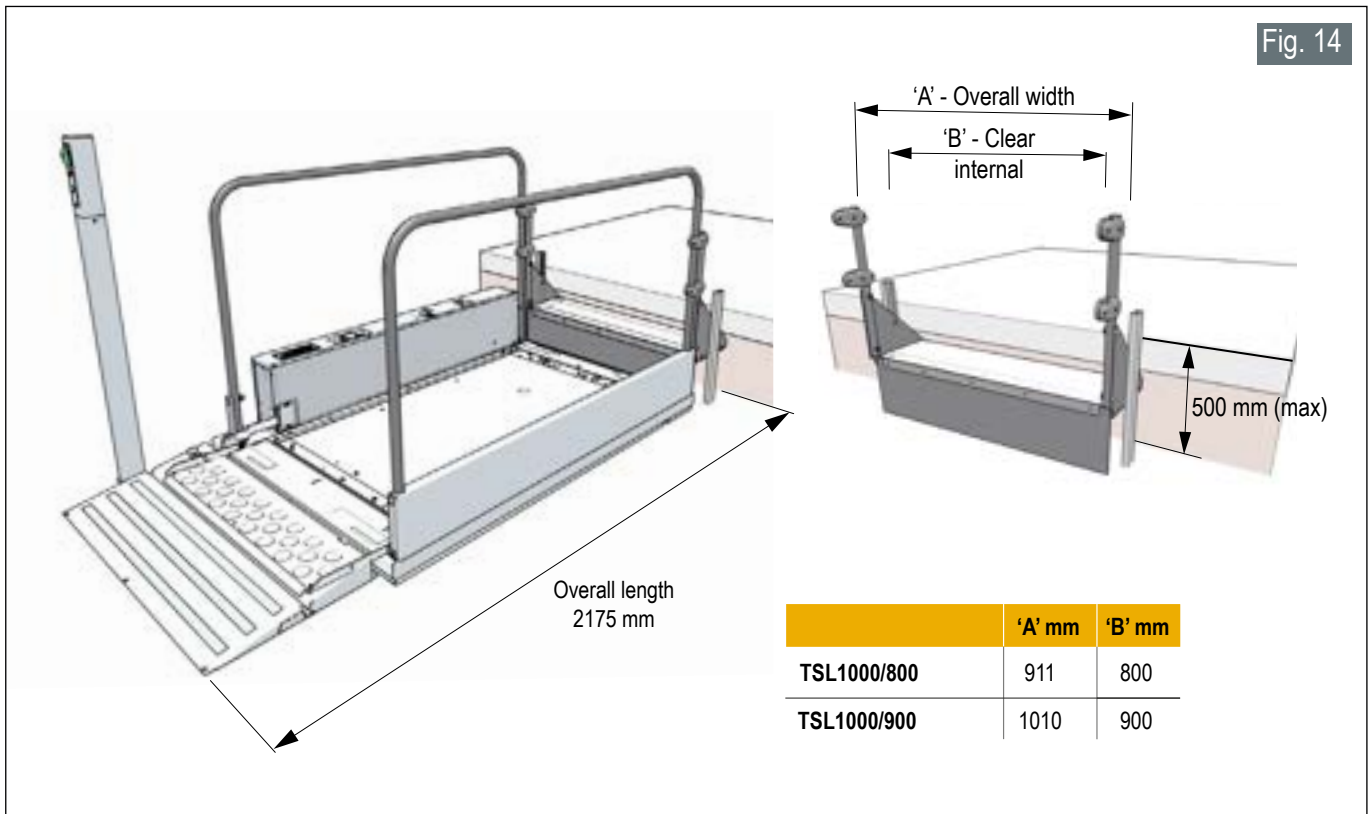
### Standard or Narrow Upper Level Gate



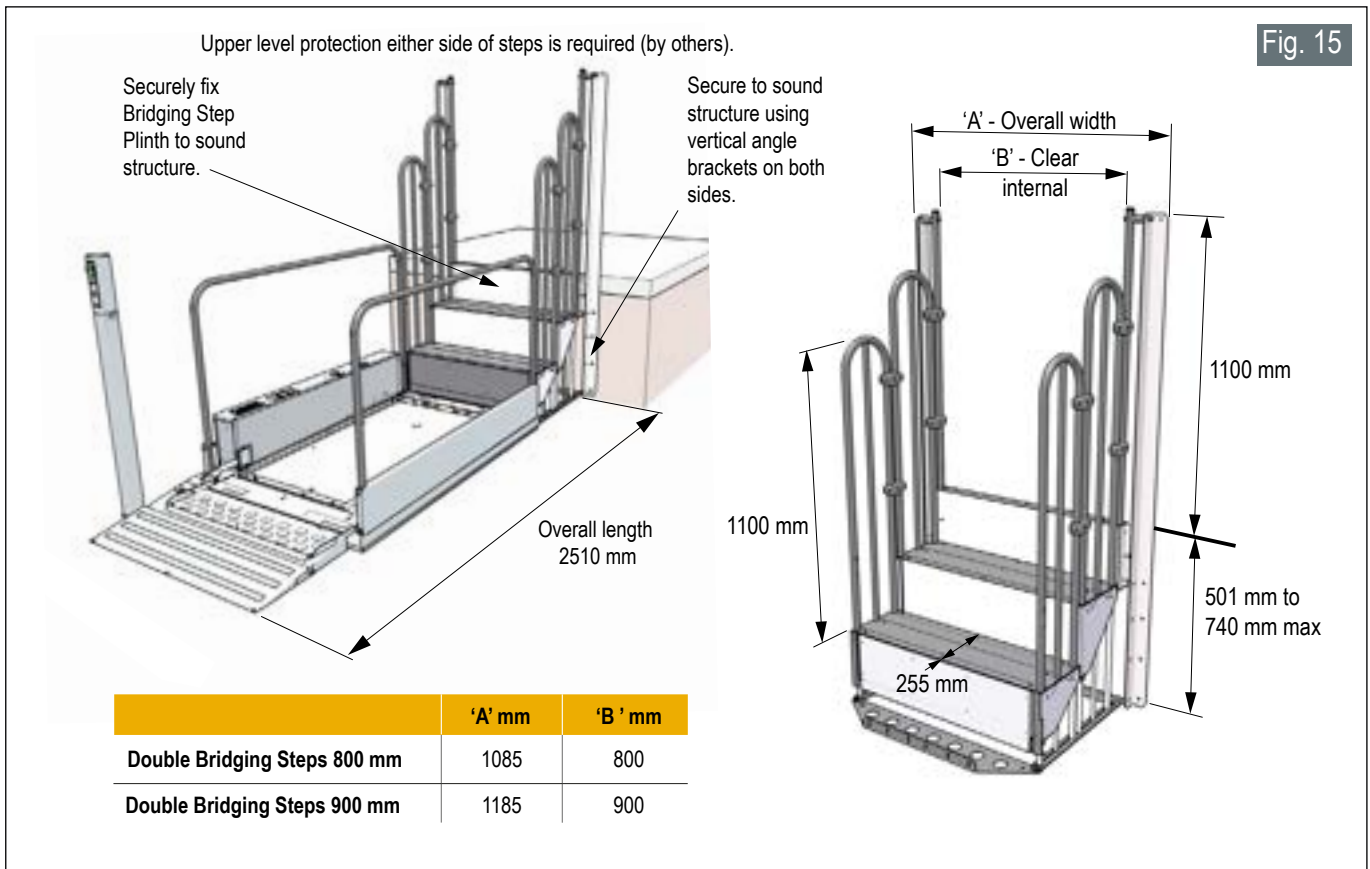
### Gate Timber Support



## Single Bridging Step



## Double Bridging Step



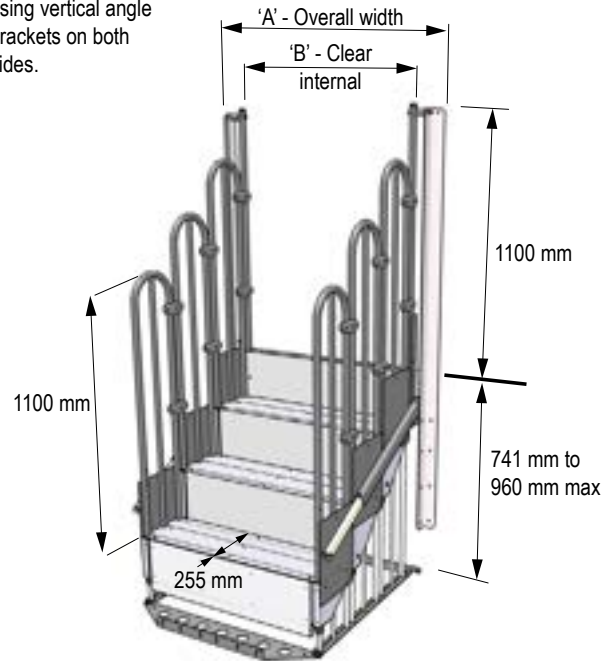
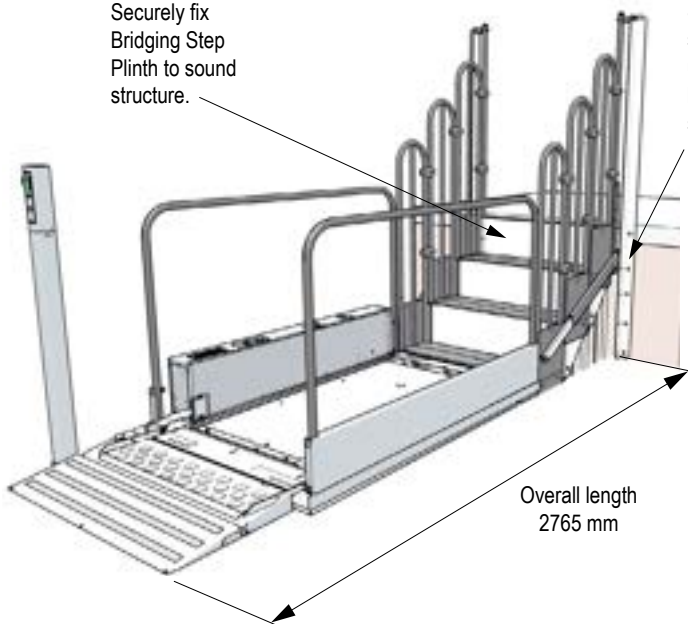
### Triple Bridging Step

Fig. 16

Upper level protection either side of steps is required (by others).

Securely fix Bridging Step Plinth to sound structure.

Secure to sound structure using vertical angle brackets on both sides.



	'A' mm	'B' mm
Triple Bridging Steps 800 mm	1085	800
Triple Bridging Steps 900 mm	1185	900

## 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 lower level control post.



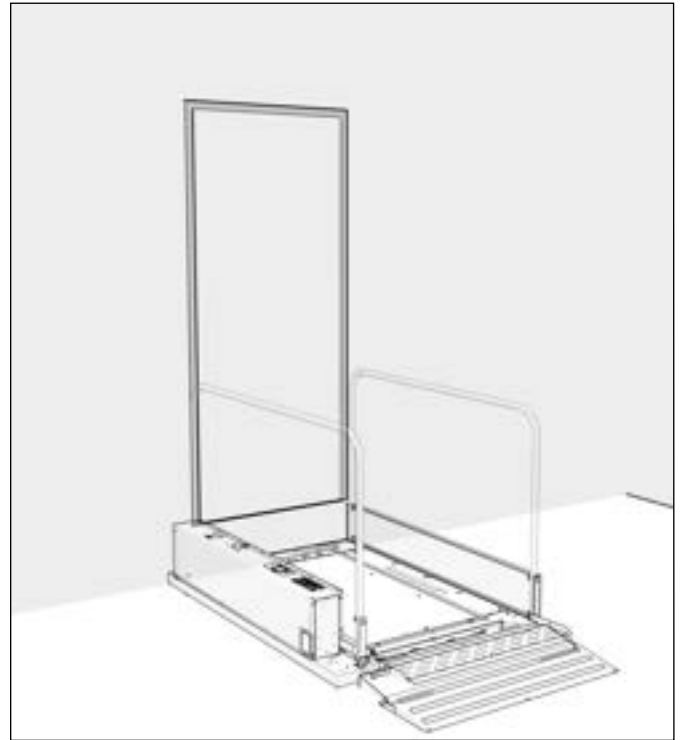
### Remote enable fob

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 with 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

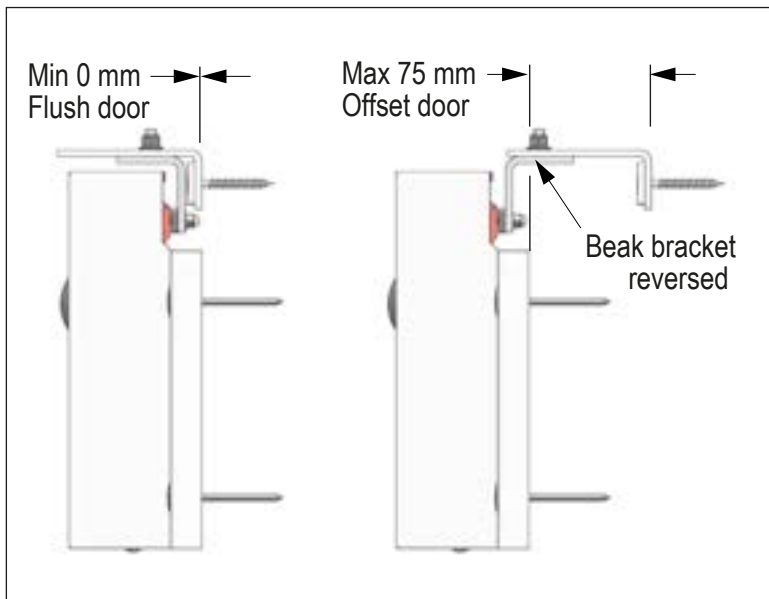


Fit Interlock high up on the non-lift side of upper level door.

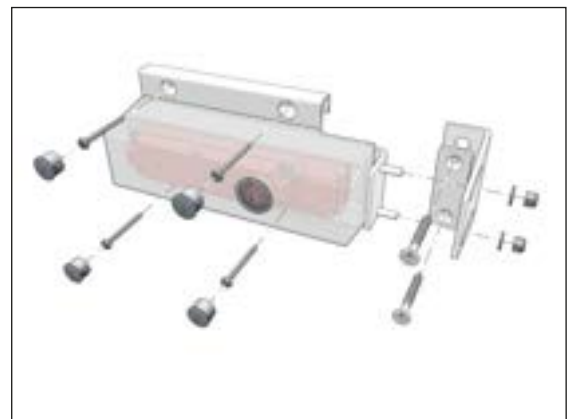


When closed, the upper level door and frame must be flush to the lifting face. Door must open away from the lift.

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



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



Interlock assembly.

## Spec Check List

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

- Page 04 Lift Dimensions
- Page 05 Loadings
- Page 06 Running Clearances
- Page 06 Greater than 100 mm and less than 300 mm
- Page 08 Schematic Cable Run
- Page 09 Lower Level Circulation/Rest Area
- Page 09 Base Preparation
- Page 10 Pit Preparation
- Page 11 Upper Level Circulation/Rest Area
- Page 11 Landing Area Preparation - Bridging Step
- Page 12 Landing Area Preparation - Standard or Narrow Upper Level Gate
- Page 13 Standard or Narrow Upper Level Gate
- Page 13 Gate Timber Support
- Page 14 Single Bridging Step
- Page 14 Double Bridging Step
- Page 15 Triple Bridging Step
- Page 19 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

### 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"/>	<input type="checkbox"/>
b	Upper level plinth dimensions and construction as per specifiers guide?	<input type="checkbox"/>	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Lifting face smooth and, where applicable, square to any side retaining walls?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Level rest area in front of the lift at lower level: <input type="text"/> mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g	Level rest area in front of the lift at upper level: <input type="text"/> mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	<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"/>	<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
<b>Checks</b>			
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
<b>Checks</b>			
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:  Date:

---

Signature:  Company:

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

**Terry Group Ltd.**

1 Longridge Trading Estate  
Knutsford, Cheshire, WA16 8PR

01565 752 800

[sales@terrylifts.co.uk](mailto:sales@terrylifts.co.uk)

[www.terrylifts.co.uk](http://www.terrylifts.co.uk)



Proudly Designed and Manufactured in Britain

ED10100H