

Recommendations for the Installation of PROFAB ACCESS 4000 Series Riser Doors

















Contact Details:
Tel: +44 (0) 1827 718 222
Web: Profabaccess.com

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Profab Access Ltd
Unit C & D, Riversdale House
Riversdale Road, Carlyon Road Ind Est
Atherstone, Warwickshire
UK, CV9 1FA

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Handling, storage & protection

Handling

- Profab Access Ltd Access Panels, Riser Doors and Doorset's are a high quality product and therefore require an appropriate level of protection on site; we recommend the packaging should not be removed until immediately before the doorset's are ready to be installed.
- Our products can be heavy and difficult to manoeuvre, so please take extra care to avoid damage to the product and prevent injury to site personnel, always work in accordance with sites manual handling policy.
- Our products are designed for forklift truck off-loading and will be supplied wrapped in stacks for ease of distribution.

Storage

The correct storage conditions of Profab Access Ltd products is essential to ensure the product performs and appears as specified. Storage and protection of the products on site is the responsibility of the contractor. Profab Access Ltd products should be stored close to the final installation area or in a location with limited access and traffic.

DO NOT

- Store on panel/frame edge.
- Store directly on the floor.
- Store near heaters.
- Stack product lent against walls.
- Stock product over 1 metre high.
- Store other product on top of the stored panels.
- Restack panels after delivery without using the same material or method to that used while the products were being transported.

Protection

All panels are supplied with installed Protek protection and is applied to allow the door to function after installation (not applicable to Plaster Board panels or tiled panels). The product is then wrapped in shrink wrap to protect the product during transportation. It is essential to protect the panels after they are installed until the handover of the building. Protek will protect the door facings and will give basic protection from paint and dirt etc, the Protek will not protect the doors from impacts and it is the responsibility of the contractor's to assess the level of protection required for the panel and provide it. When reapplying the Protek or applying other types of protection a low tack adhesive tape should be used, do not use any form of packing tape or duck types of tape as this may damage the powder coating finish and mark the doorset's.

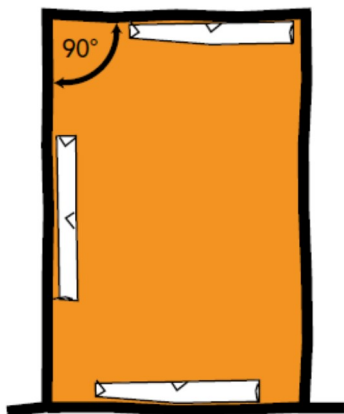
Additional low tack tape can be purchased, please contact a member of the Profab team.

It is recommended that a box knife is used to remove the transport protection as an open blade may scratch/damage the product

Before you start

Opening

- Make sure that you have the correct panel/doorset in relation to the opening in which it is going to be installed; each product has a unique reference located on the label (Door Number), which links with the contract drawings and schedules.



- Check the structural opening is plumb and level before you start installation. Our product is designed to allow for an opening to be no greater than 5mm out of square.
- Before removing the packaging check that the overall dimensions of the panel will fit the opening it is intended for, if correct remove the transport packaging and take care to retain any loose items.



Door Finishes

All steel components of the panel and frame are supplied with a powder coat finish (white). This finish can be the finished item with no additional finish required or can be painted over to match other wall finishes.

When painting the panels the powder coat will require a light sand/de-nibbing, this will key the paint to the powder coat.

If in doubt or if there are any questions please contact a member of the Profab Team

Installation

Clearances

The following clearances should be achieved around the panel when closed to comply with fire certification and for the product to function correctly.

- Frame to panel gap = 4mm maximum (Manufactured to allow 3mm)
- Meeting Stiles gap = 4mm maximum (Manufactured to allow 3mm)
- Structural opening to frame gap = 7.5mm allowance, for maximum tolerance please refer to the fire mastic that is being used.

Adjusting panel sizes

All of our panels are made to measure and cannot be cut down / adjusted, it is recommended that the structural openings are measure prior to the panels being manufactured.

Apertures

No site cutting of any type of aperture is permitted.

Frame Packer Material Requirements

- Non Fire rated - Any type of Plastic, Timber or Metal packers.
- Fire Rated – Steel packers or a non-combustible material may be used.

Fixings

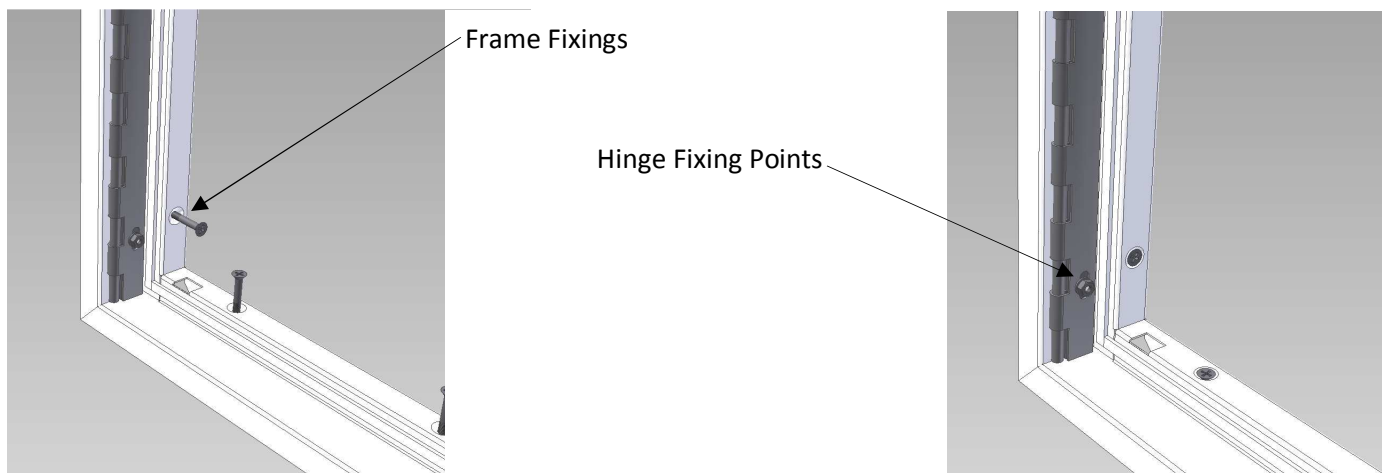
- For masonry or concrete, doorset's to be installed using a minimum M6 steel anchor fixings.
- For plasterboard wall assemblies, doorset's to be installed using a minimum No 6 Plasterboard screw (steel) or steel woodscrew.

Tools & Components Required

- Battery or mains drill/driver. (Suitable for masonry wall if applicable)
- 10mm Socket & wrench or 10mm sock and attachment for a battery driver
- Basic hand tools.
- Various length spirit level dependent on the panel size, it is advised that a suitable length spirit level is used for the panel which is being installed. e.g. it is not recommended to use a 300mm level on a 1800mm long frame section.
- Frame packers (if applicable)
-

Picture Frame (PD) with Metal Door (MD)

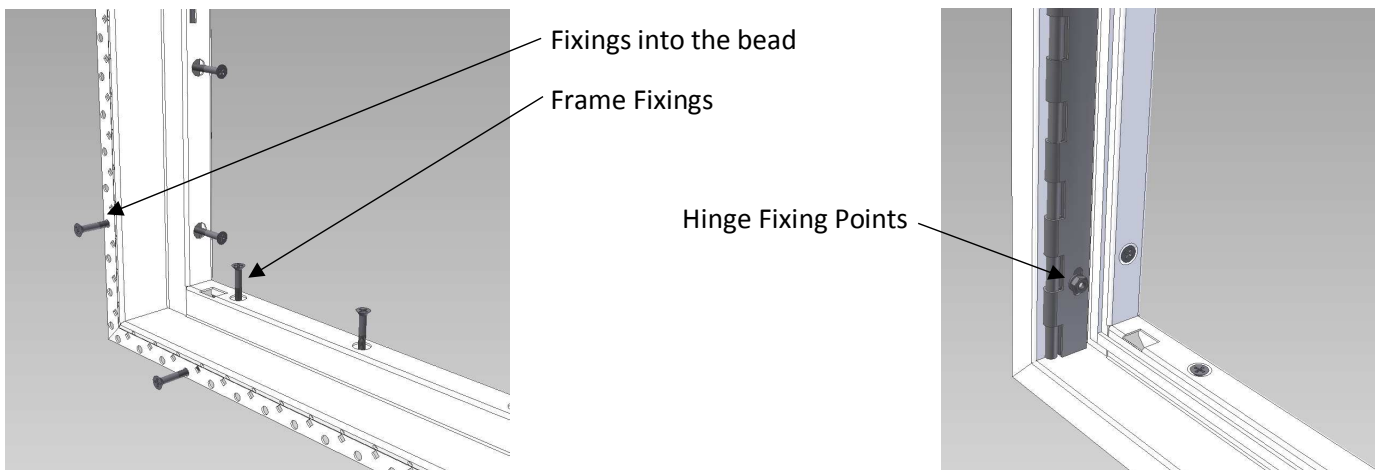
- Ensure opening is level and plumb and that the opening is around 15mm larger than the frame.
- Position the frame into the opening.
- Using 2 of the frame countersunk fixing locations, preferably 1 at the top and 1 at the bottom on the hinge side. Loosely install the frame.
- Add packers around the frame making sure the frame is equally spaced.
- Install the door leaf by locating the frame hinge pins into the continuous/piano hinge and using the nuts provided, fix the door to the frame.



- Before inserting the remaining fixings ensure the locking device can locate into the frame and lock. Ensure all gaps between door and frame are equal.
- Insert the remaining fixings, ensure all fixings holes are used.

 **Beaded Frame (BF) with Metal Door (MD)**

- Ensure opening is level and plumb and that the opening is around 15mm larger than the frame.
- Position the frame into the opening.
- Using 2 of the frame countersunk fixing locations, preferably 1 at the top and 1 at the bottom on the hinge side. Loosely install the frame.
- Add packers around the frame making sure the frame is equally spaced.
- Install the door leaf by locating the frame hinge pins into the continuous hinge and using the nuts provided to fix the door to the frame.

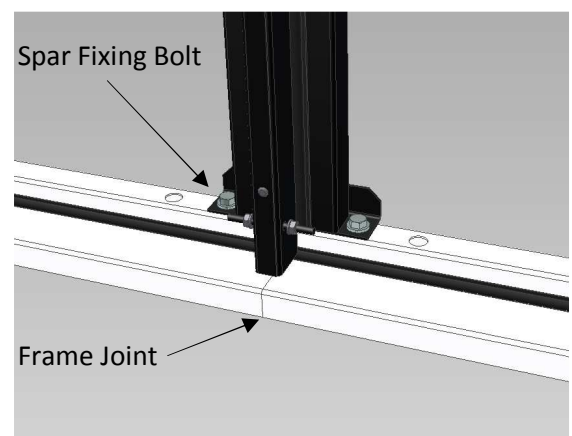


- Before inserting the remaining fixings ensure the locking device can locate into the frame and lock. Ensure all gaps between door and frame are equal.
- Insert the remaining fixings, ensure all fixings holes are used. It is good practice on a beaded frame to add fixings to the face of the frame. Ensures the fixings do not protrude passed the face of the bead.

Spar for Multiple doors

Some 4000 series panels are required to have multiple leafs, these doors and frame will be delivered with a black spar. In some cases this spar is used to connect multiple frames together.

- Before installing the frame into the opening lay the frames flat on the ground.
- Position the frames together and position the spar into place.
- Using the bolts provided bolt the spar to the frames.
- Install the frame as normal.

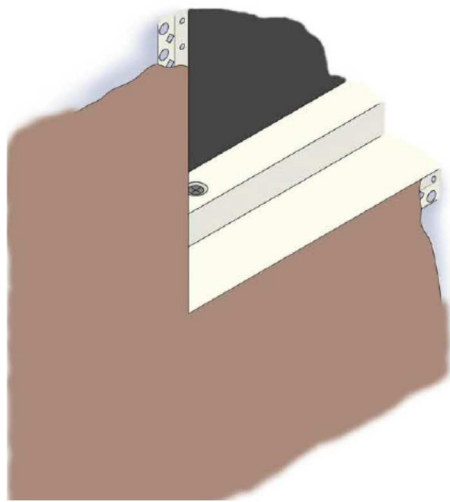
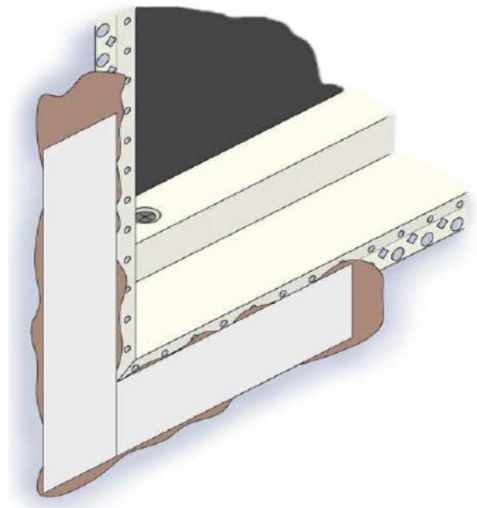


Due to the large size of some frames it may require multiple operatives to lift the frame into the opening, the frame may also be assembled in the opening if space is limited.

Plastering a beaded frame

- Spread finish coat plaster (skimming) or jointing compound (tape & Jointing) along the bead overlapping onto the plasterboard surface. 'Bed in' paper joint tape by pressing it firmly into the plaster / jointing compound material.

Note, Paper tape is preferred to self-adhesive fibre tape as it generally considered to give better resistance to cracking.



- Plaster skimming – Trowel apply finish coat plaster ensuring the paper tape remains positioned and that the plaster is pushed through the tape well into any gaps between the beaded frame and the plasterboard surface. Finish the skimming with a firm pressure to the beaded frame joint after the joint treatment has stiffened but not set.
- Taping and jointing – Trowel apply 2 or 3 applications of jointing compound allowing each to set dry before the next application, feathering each out beyond the previous application. Sand as required to achieve a smooth surface.

- Remove any excess plaster that may have fallen between the frame and panel.
- If plastering the frame while the panel is installed ensure the gap between the frame and panel is free from plaster or jointing compound. Plaster / jointing compound within the gap may result in the panel being damaged during operation.

Mastic/Silicone seals

- Non Fire rated doorset's, it is advised that a mastic or silicone sealant is applied around the rear perimeter of the frame. Any type of Mastic, silicone sealant can be used dependent on the client's requirements.
- Fire Rated doorset's, it is essential for a fire rated mastic be applied to the rear perimeter of the frame. The fire rated mastic should have a fire rating to match that of the doorset.
- Ensure that the mastic is of an equal or higher fire rating of the panel and that it is fire rated to be used on a steel panel/doorset.



Mastic

 **Locking Options**

There are a 3 different locking options, all locks are installed and set during the manufacturing process with no need for adjustment once on site.



3 Point lock (T-Bar key)



**3 Point Security Lock
(Euro Profile & T-Bar key)**



2 Point Lock (Euro Profile)

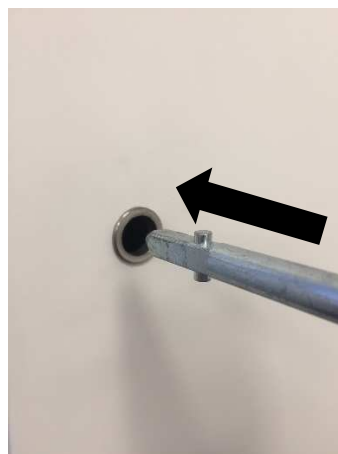
Lock Operation

 **3 Point Lock**

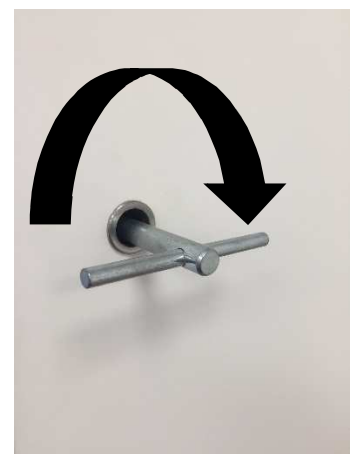
This lock is a simple T-Bar key lock. To operate insert a T-Bar key into the face of the panel and turn clockwise or anti-clock wise to lock/unlock the panel.



Hole within panel



Insert Key



Key Inserted & Turn to
open

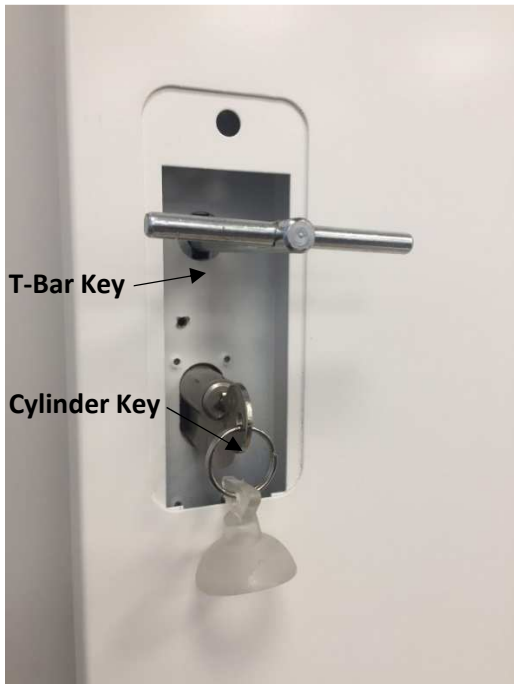
The cover/collar is either a simple hole, stainless steel collar or plastic collar and bung that makes good the hole cut in the door.



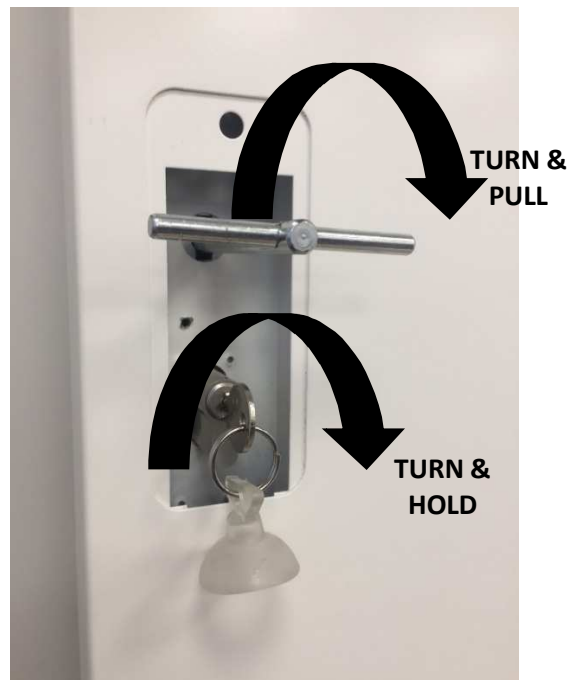
3 Point Security Lock

This lock type has both a cylinder and T-Bar key opener. Both are required to operate the lock/door.

- Insert the key and square T-Bar key into the lock
 - Turn the cylinder key and hold the key in the open position, this will then unlock the ability to use the T-Bar key.
 - Turn the T-Bar key and the door will unlock the T-Bar can be used to pull the door open.
- If the square key does not operate, the cylinder key is not turned fully, turn the cylinder key within the lock and rotate the T-Bar key.*



Insert T-Bar and Cylinder Key



Turn Cylinder Key and Hold Turn T-Bar Key

Lock cover, this is a rectangular cover which has a locating tap at the bottom and a small magnet at the top, using a suction cup pull the top of the cover and remove.



Cover installed flush



Cover being pulled



Cover removed

 **2 Point Lock**

This lock type only required a key for the cylinder, simple to use by inserting the key and turning the cylinder to un-lock the panel.

The cover is a circular disc that has a turn lock back, to remove the cover use the suction cup to turn the disc and pull.



Disc installed flush



Disc turned and removed



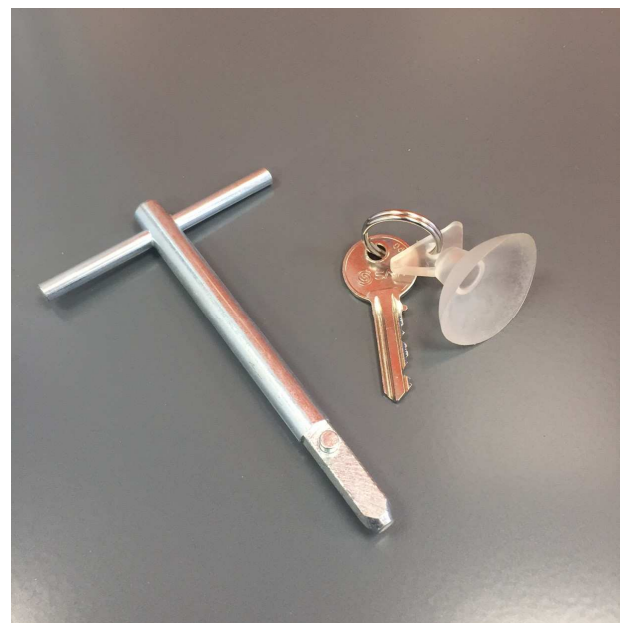
Suction cup to be used

Keys

Any special keys or euro profile keys are supplied with the product, these may be dependent on your lock option the T-Bar key, suction cup and or euro profile cylinder key. Please be careful when unpacking the panels that these loose items are not discarded.

Additional items can be purchase, please contact a member of the Profab team.

Note, unless specified the euro profile cylinder keys are not suited and are construction issue, it is assumed these will be replaced by other into a suited key system.



 **Safety Handrails Option**


Safety Rails are an optional extra that can be fitted to eliminate the risk of falling if there are voids within the riser cavity.

Each hand rail is secured with 4 fixing bolts for strength. Quantity and location is dependent on the client requirements.




Contact Details

Sales / Technical Enquiries


 +44 (0) 1827 719 051

 technical@profabaccess.com

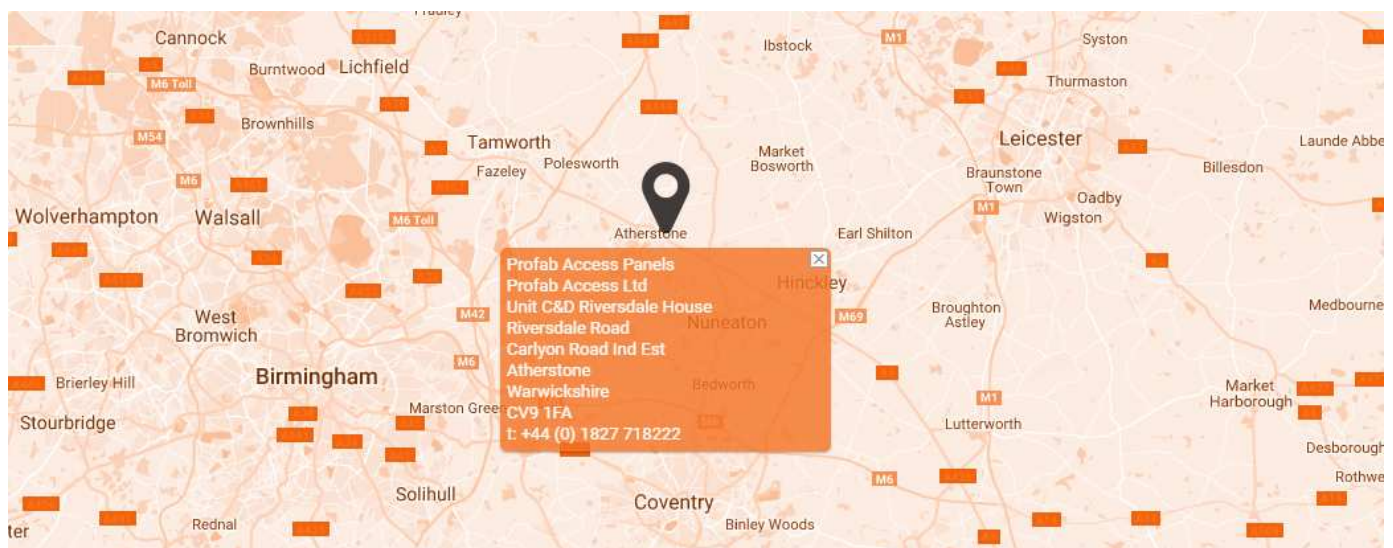
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