



Solid Core Door Installation Guide

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FOR TRACEABILITY DO NOT REMOVE DS JOB NUMBER LABELS FROM FRAME OR LEAF

Before you start

FAMILIARISE YOURSELF WITH THIS GUIDE

These instructions must be read and completely understood before any work commences.

Do not remove existing door until you have checked...

- The sizes are correct and you have everything as ordered
- The paperwork to ensure it is the correct specification
- Any damage to the door (do not install a damaged door)

Health and Safety

Care should be taken when handling the door - help should be sought due to its weight. Avoid sharp edges.

Keep electrical leads and cables away from sharp and abrasive surfaces and protect against tension and moisture. An RCD breaker should be used as per manufacturer's instructions to protect from electric shocks.

Keep children and pets away from building operations.

All waste products should be disposed of correctly and safely.

Recommended tools

- Tape measure
- Hammer
- Stanley knife
- Crowbar
- Chisel
- Electric drill with hammer action
- Silicone sealant gun
- Saw
- Rubber mallet
- Spirit levels
- 3mm Allen key
- Selection of screwdrivers (both phillips and flat head)

Removing the Existing Door

Remove the existing door leaf.

To help reduce the damage to wall decorations and plaster, score around the perimeter of the frame with a sharp knife. Saw through the jambs and remove. The best way to do this is by sawing diagonally in the center and removing them in two sections.

Do not saw them all the way through as this can cause damage to the internal reveals or structure. If there is a chance this will happen, use a bearing block to protect the plaster and render, then lever the jambs away from the walls and complete the cuts.

Remove the top and bottom rails in the same way.

Preparing the Opening

Check there's a lintel or other load transferring structure fitted above the doorway.

Once the door has been removed, ensure the opening is free from screws, nails, fillers and mastic. Repair as required in accordance with building compliance recommendations.

The opening should be complete before fitting the door.

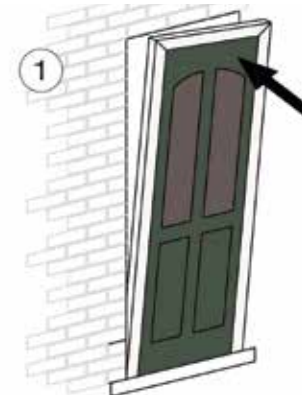
The maximum allowed gap is between new frame and wall opening is 10mm. See also section on Sealing around the perimeter.

Door Alignment

The positioning of the door within the brickwork is vital to the correct functioning of the door.

- Frame is square and plumb in both planes
- Door outerframe set back as far as possible to reduce exposure to elements
- The frame must bridge the wall cavity
- The frame must cover the DPC
- Frame is square and not twisted

Door Set Installation



Offer complete door unit into brickwork opening.



Hold frame into position using appropriate size wedge packers. Packers must be located adjacent to fixing positions to prevent distortion of the outer frame when frame fixings are tightened. Failure to adhere to this may result in door function issues

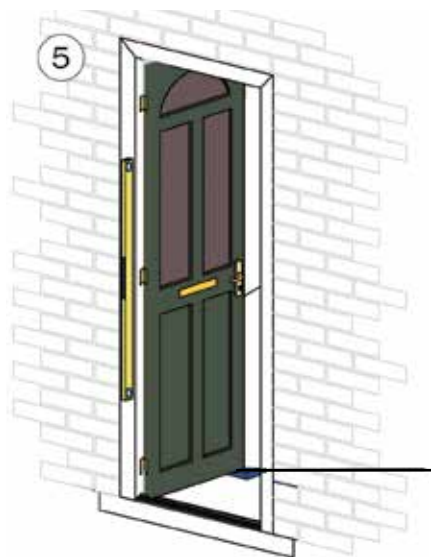
MAXIMUM FRAME TO WALL GAP 10mm



Spirit level (1.5m Long) should be used to ensure jambs are square and plumb in all planes.

The leaf may be removed from the frame to ease installation. Final adjustments to frame position may be necessary when using fixed hinges. Once square and plumb, fix as per instructions.

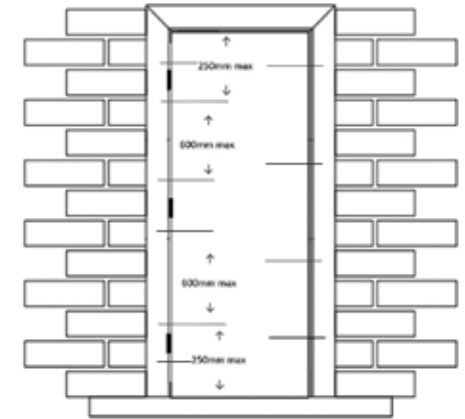
(See fixing positions)



Pack the bottom of the door leaf at the leading edge to assist getting square into outerframe.

Fixing Positions

Fix frame into wall with metal frame screws in each leg, maximum spacing 600mm. Ensure fixing are used above and below hinges and one fixing in each leg of the over panel if fitted. The frame screws may be plastic sheathed and must be long enough to penetrate at least 50mm into the wall



Drilling

Drill holes through the frame as indicated (ensuring the holes are as recommended by the frame fixing manufacturer).

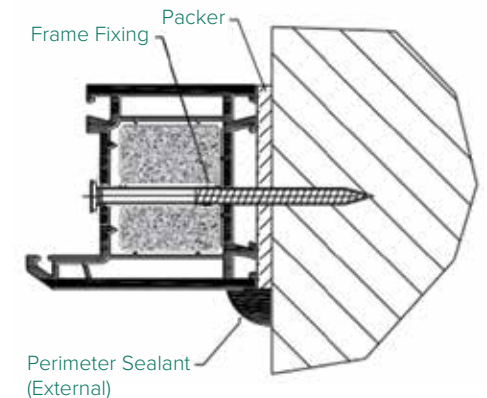
Secure the frame to the brickwork (NOT MORTAR) with suitable frame fixings. Ensure the fixing is secure and correctly positioned in the brickwork.

Fixings

The outerframe should be secured into the brickwork using industry standard plastic sheathed frame fixings. These should be a minimum of 100mm long and fixed into the masonry by a minimum of 50mm.

Tighten and secure all the fixings to ensure the frame is square.

Care should be taken not to over-tighten the frame fixings to avoid distortion of the frame. Recommended fixings are steel/ plastic sheathed frame fixing bolts minimum length 8 x 100 mm.



Adjustable Hinges

If adjustable hinges have been supplied, the hinges will be set at a nominal position, thus allowing the installer to adjust the leaf position to suit the chosen application.



Vertical Adjustment

- 1 All hinges adjusted together.
- 2 Support underside of door with lever.
- 3 Slacken screw B on each hinge. (3mm Allen Key)
- 4 Lift or lower door to desired position.
- 5 Tighten screw B on each hinge.
- 6 Check operation of door.

Side Adjustment

- 1 Hinges adjusted individually.
- To move door closer to frame**
 - 2 Slacken screw B & tighten screws A.
- To move door away to frame**
 - 3 Slacken screws A tighten screw B.
- 4 Check operation of door.

ON COMPLETION OF ANY ADJUSTMENT ALL SCREWS AND TO BE CHECKED TO ENSURE THEY ARE TIGHT.

Top Light Glazing Instructions

Top lights will be supplied as part of the frame separated by a mechanical joint transom. Top lights will be semi-glazed, in-so-far that the glass will be in the frame, held secure with two short lengths of glazing bead. To fit the top light, first remove the glazing bead and lift out the DGU.

Only once the frame (including top light) has been installed into the property, do you re-glaze the top light.



Carefully place the glass unit into the Top Box (Ensure that the glass is the right way up/ round).

Centralize the glass by inserting a glazing packer around the DGU.



Care must be taken when fitting the bead. The leg must fit positively into the frame rib.

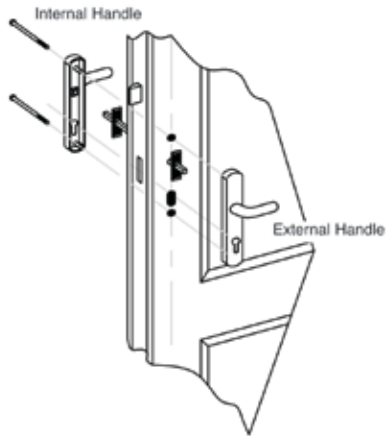
Starting at one end, feed the leg into the rib, ensuring the leg is securely engaged. Working left to right (or right to left) feed the bead into position. This should be possible by hand pressure only.



As you approach the corner of the top box it may be necessary to apply additional force, especially as you insert the final length of bead. If so using a nylon or rubber mallet gently tap the bead in a downward motion to force the bead leg into the frame rib.

If excessive force is needed, or the bead moves into position, but there is a small gap between the bead and frame, the bead is not correctly seated and should be removed and re-installed.

Fixing Decorative Hardware



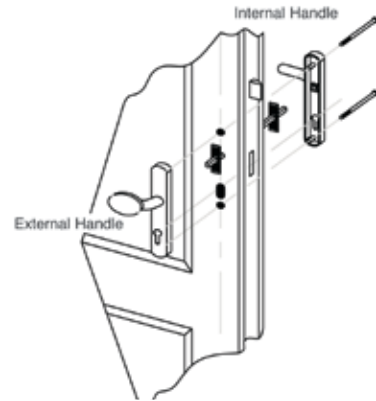
Fixings

To fit door handle set, locate spindle through square hole in lock mechanism. Align projecting pins on internal half of door handle set with pre-drilled holes in door slab.

Ensure handle spring washers are in position and secure using fixing screws supplied.

NB: If your furniture selection is split spindle handle, discard spring loaded plate and insert the supplied locking plate. Note the shorter spindle must be used.

NB: When the door has been fixed into position the operation of the door opening and locking mechanism must be checked to ensure uniform contact with weather seals and correct function of handle/lock.



Fixing Security Chain

The security chain should be positioned into the desired location for ease of use (i.e. to suit the persons who will be required to use the device) Mark the fixing positions onto the door/frame using the pre-drilled holes in fittings as a template. Move the security chain and drill pilot holes in the marked positions, use the screws provided to secure.

NB: Care should be taken when the fittings are positioned to ensure the security chain will function correctly.

Fixing Decorative Numerals

Numerals should be located in the desired position on the composite door, when satisfied this is correct, the holes in the numerals should be used as a template to mark the required pilot holes to fix. Drill pilot holes and use the screws provided to secure to the door.

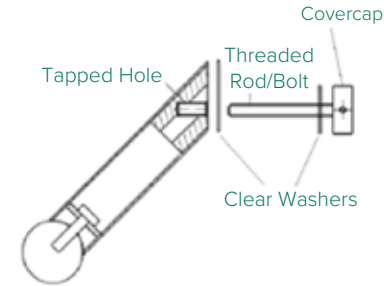


Contemporary Hardware Fittings

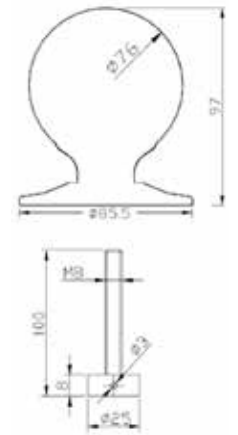
Regardless of handle Shape / Design the below instructions are to be used.

SINGLE VERSION - BOLT FIX

Offset example from above



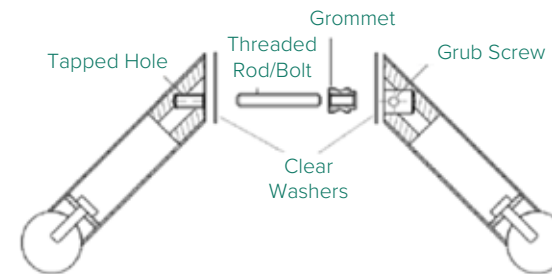
Central Knob from above



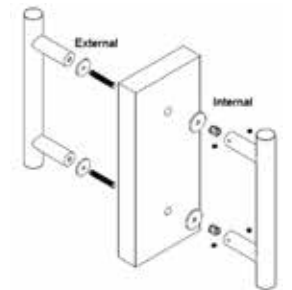
- 1 Assemble the pull handles onto the door as shown. The Covercap and bolt simply push through the door and screw into the pre drilled hole within the pull handle.
- 2 Remember to include clear washers to protect the door surface.

DOUBLE VERSION – BACK TO BACK FIX

Offset example from above



Inline example as main view



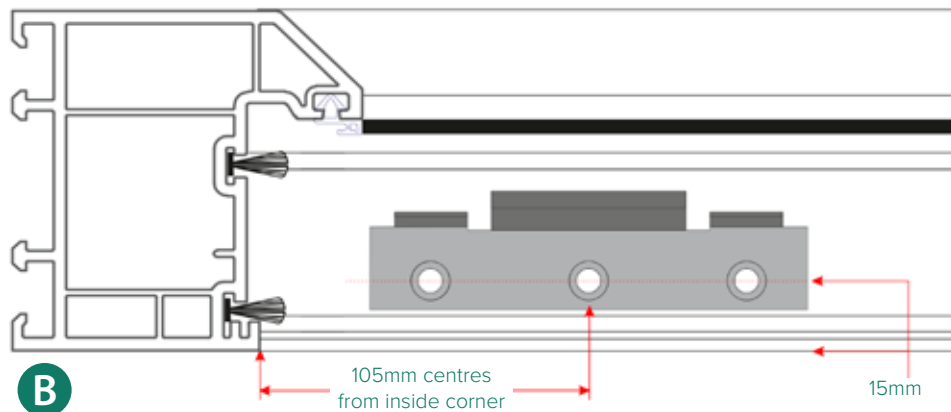
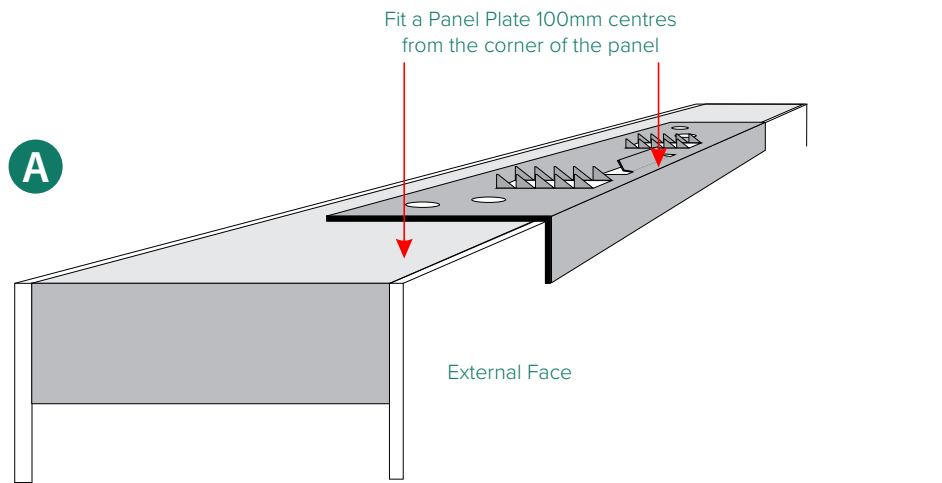
- 1 Assemble the pull handles onto the door as shown. The threaded rod will simply push through the door and screw into the pre drilled hole within the pull handle.
- 2 Add the grommet to the opposite side to assist with rotation and securely hold the items in place.
- 3 Include clear washers to protect the door surface. Once the external pull handle is held in place with the threaded rod and the grommet, add the internal handle.
- 4 Offer the product onto the grommet and fix in place using the grub screws within the neck of the pull handle.

Fitting composite sidepanel

GT Panel Lok has been designed to assist the easy fit of Composite Panels into a side screen situation.

A set comprises of two metal parts, a panel plate and a frame plate, along with an acetal cover for the frame plate.

Fitted correctly, as show in the diagrams, GT Panel Lok will allow a push and lock fit with the advantage of easy release for removing the panel.



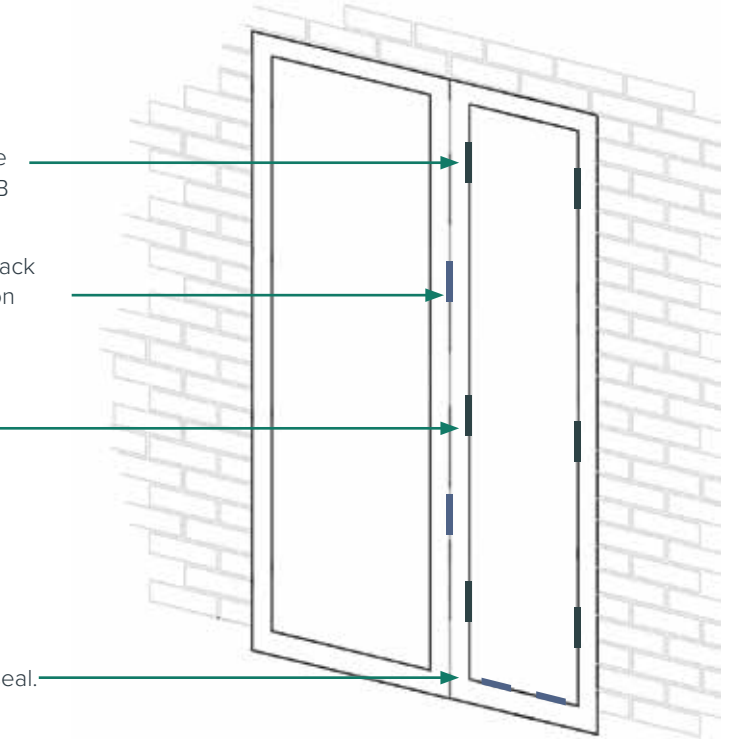
FITTING

Fit Panel Lok on the vertical bars at the centre shown in Fig A and Fig B

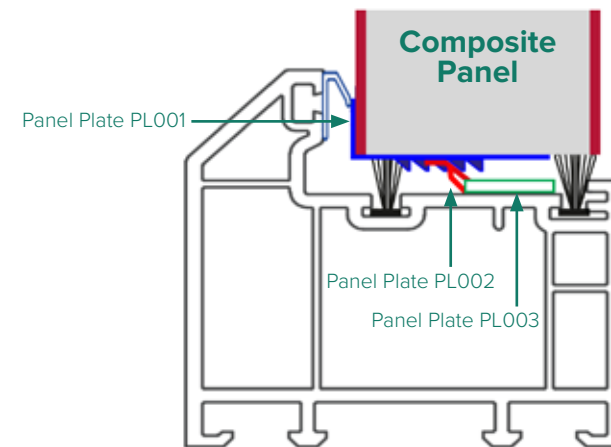
It may be advisable to pack then screw fix the mullion through to the panel at these points

Fit additional sets central at these points

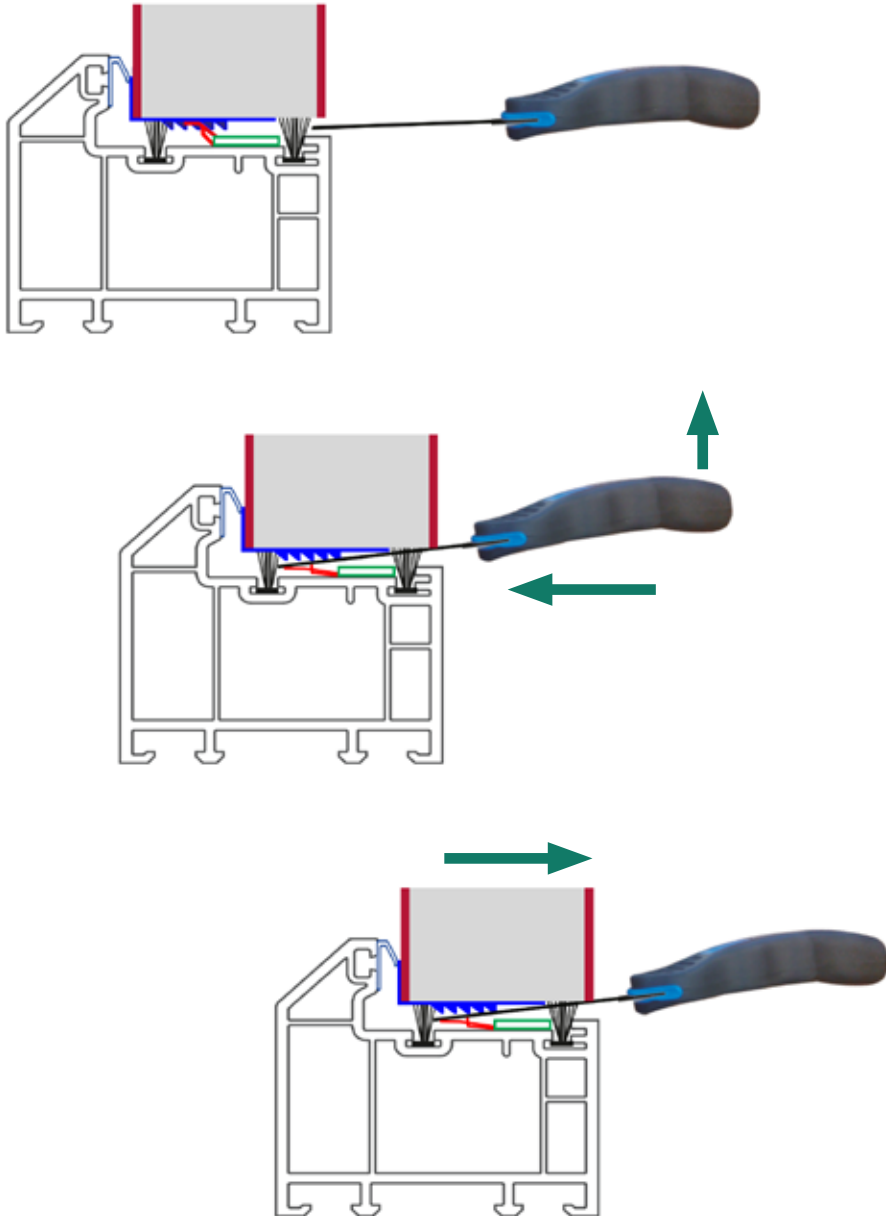
Pack here to allow for required gap on brush seal.



All drawings are not to scale Reinforcement and fixings have been omitted for clarity

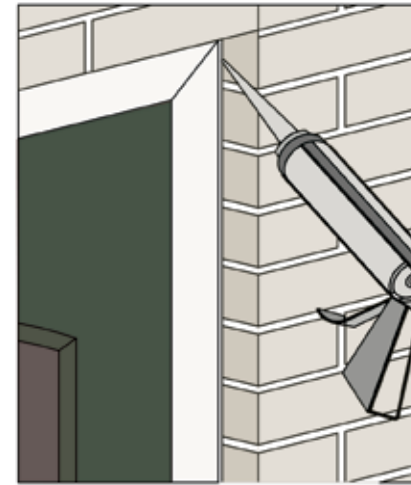


RELEASING

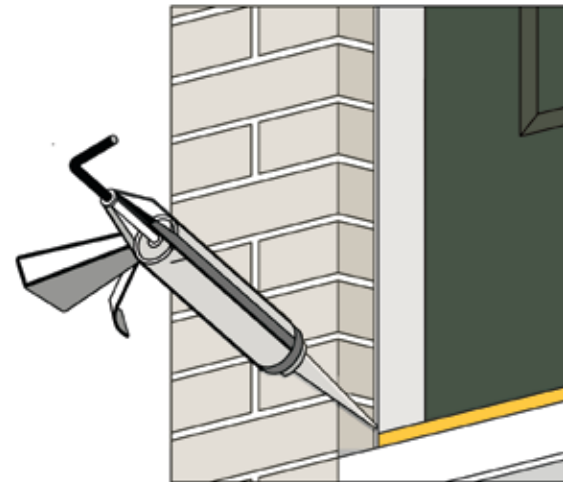


Sealing Around the Perimeter

Please note maximum wall to frame gap is 10mm. If wall to frame gap is more than 3mm the gap must be filled with tightly packed mineral wool or expanding foam.



Using silicon sealant to seal the gap between the frae and wall on both the inside and outside

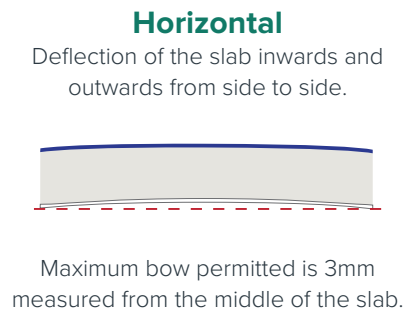
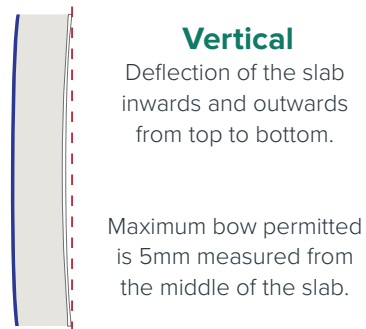


NB: Care must be taken to ensure that the drainage slots are not blocked when sealing around the aluminum wheelchair threshold.

Thermal Movement

DEFINITION AND TOLERANCES

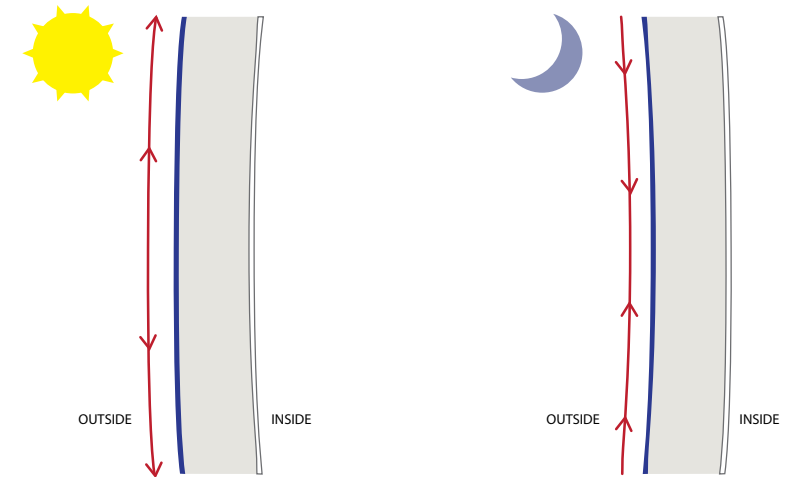
All slabs experience varying amounts of thermal movement. The slab will recover to its flat plane, to a maximum bow of 3mm side to side and 5mm top to bottom, when the installation recommendations are applied (see below).



Slackening off the lock keeps will compensate for the movement of the slab within these tolerances. The hooks of the multipoint lock must be in compression with the inner edge of the pocket keep.

If this does not happen the door may move to the inside of the property (towards the cold side) and give the impression the door is bowed.

It is important to ensure the center keep for the latch only allows the door to become flush with the inner face of the outer frame and not any tighter as this could also cause the door to appear bowed.



If the hooks on the multipoint lock are not thrown throughout the day and the center keep setting is too tight, the top and bottom of the door will be in unsupported tension and will eventually stand proud of the inner face of the profile.

This will make the hooks on the lock become stiff, as they cannot draw themselves into the hook keep.

Protect your door from natural thermal distortion. Make sure the top and bottom locking points are engaged by pulling the handle up every time you shut the door.

If these points are not observed the warranties on the functionality and operation of the door could be affected. Condensation issues are typically building ventilation related, not product related.

For further information, contact recognised trade organisations.



All information in this manual is provided for guidance only.
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We reserve the right to alter specifications and descriptions without prior notice as part of our policy of continual development.

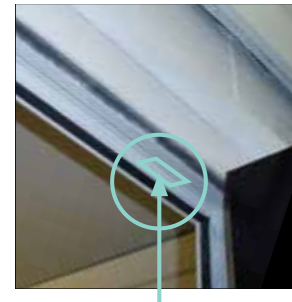
Cut out and for the



Keep this number safe for your reference

Door Number

D	S							
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This 'DS Job Number' (or Door Number) can also be found on the inside top of your door's frame, as shown.

Do not remove the DS job number labels from frame or leaf for traceability.

FOR TRACEABILITY DO NOT REMOVE DS JOB NUMBER LABELS FROM FRAME OR LEAF



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