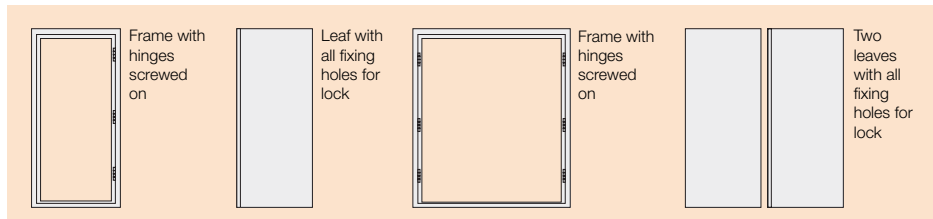


# ExecDoor<sup>®</sup> 1 & 2 Single and Double Doorsets

## Installation & Fitting



### Supplied with the doorset



Sunray doorsets are all individually made. Check that the ID numbers match on the frame and the door leaf(s). ID is at bottom of door leaf(s) and frame on single and double doorsets.

If applicable, before removing the existing doorset, please make sure that the frame will fit the opening by checking the sizes ordered against the new doorset and the structural opening.

### Tools required for installation

- Wedges and blocks
- Spirit level
- Shims/packers
- 17mm socket and ratchet
- Pozi screwdriver
- Drill and 6mm, 10mm and 12mm masonry drill bits
- Screwdriver set
- Mastic

### Handling and care

Doorsets are usually delivered on a curtain-sided lorry and can be unloaded using a forklift truck.

Care must be taken when unloading, especially when using a forklift truck, that the forks are positioned correctly, and where possible, extend past the pallet.

- Do not place objects on the door panels.
- The doors must not be used as a table or seated bench whilst stored on a pallet.
- Take care not to damage the handles or anything that protrudes from the surface.
- Do not store in exposed places for long periods and protect from weather.
- The protective coverings on the doors are for protection against dust and fingermarks.
- Please be aware that these doors are heavy and should be moved in accordance with manual handling regulations.

### Storage

Doorsets on pallets which are being stored for long periods should be checked regularly that the polystyrene has not been crushed and no damage to the doors has occurred.

- Do not store unprotected doors on top of each other.
- If storing upright, make sure the doorsets are secure and there is no danger of them falling over.
- Ensure doorsets are stored well away from moving vehicles e.g. forklift trucks, cranes or where they could possibly be hit by foreign objects.
- Take care not to damage the door hardware.

## Preparation

Measure the structural opening at several points to check that it is square and level, and is to the correct dimensions as ordered.

Please use the correct fixings for the correct structures:

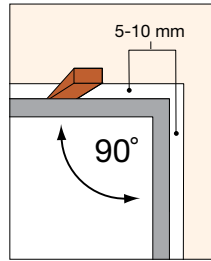
**Timber substrates:** 10 x 50 coach bolts or 7.5 x 80 self cutting screws.

**Steel substrates:** M10 x 60 screws or 7.5 x 80 self cutting screws.

**Brick, concrete, block substrates:** 12 x 80, 10 x 92 sleeve anchors or 7.5 x 80 self cutting screws.

*The fixings must be able to support the weight of the door. The wrong type of fixings can cause the frame to not sit securely and may invalidate the security rating.*

## Structural opening inspection



Ensure that the frame supplied will fit the structural opening. An allowance of 10mm on the width and 5mm on the height is deducted if Sunray were given structural opening sizes.

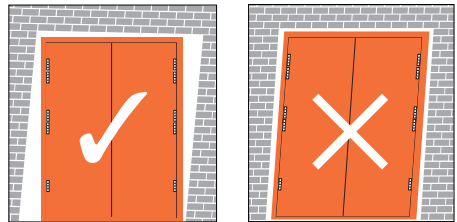
Measure the frame supplied and compare with the structural opening size at its smallest point.

If the hole is too small cut away the supporting structure to suit.

If the opening is larger than 20mm then the opening should be made smaller.

Gaps of 20mm or more will have an impact on security ratings.

## Alignment



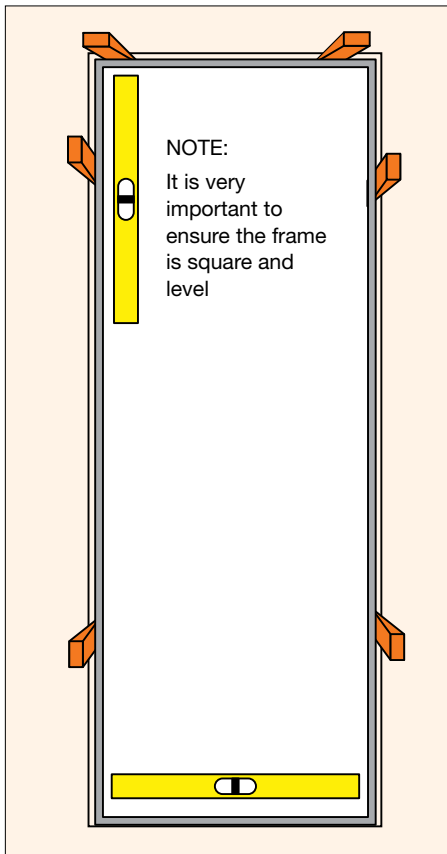
Stand the frame in the prepared opening. The front of the frame is recommended to be 40mm back from the face of the opening for additional security.

## Aligning the frame

Do not force the frame to fit the opening by applying pressure to it. This will make it go out of square and the leaf will not fit.

Remove the door and frame from the pallet and remove all packaging and remove the keys from the frame.

Using a spirit level ensure the frame is square and level in all directions. Wedge the frame into the opening then pack out with shims provided.



## Installation

1. Offer the frame up to the opening, assuming it fits correctly. You must then position the hinge side jamb to the wall, level the jamb from front to back until square. Firstly fix the top hole and then the bottom.
2. If 7.5 x 80 self cutting screws are being used, a 6mm diameter drill must be used to drill out a pilot hole, prior to using this fixing.
3. Position the remaining jamb and fix the top hole only.
4. Door must now be hung on the hinges. Close the door and adjust the remaining jamb as necessary.
5. Make sure the door leaf is free to swing with no obstructions on the floor. If possible, remove obstructions from the floor or adjust the jamb with shims until the door passes the obstacle.
6. When the door is hanging correctly, fix the bottom hole then continue with the rest of the fixings. All frame fixings must be used.
7. Check all gaps around the door are: 3mm to the top of the leaf and 3mm to the hinges and 5mm to the strike side (if fitting a single frame). If the centre gap seems excessive use the hinge packers provided to close the gap.
8. Fit the door seal (if needed).
9. Plug the large holes with grommets supplied.
10. Finely tune, if required, by adjusting the hinges with hinge packers. Install keeps and carefully file to achieve clearance required between door frame and astragal lip.
11. When totally satisfied that the door is fitted correctly, apply mastic according to site instructions.

## Overpanels

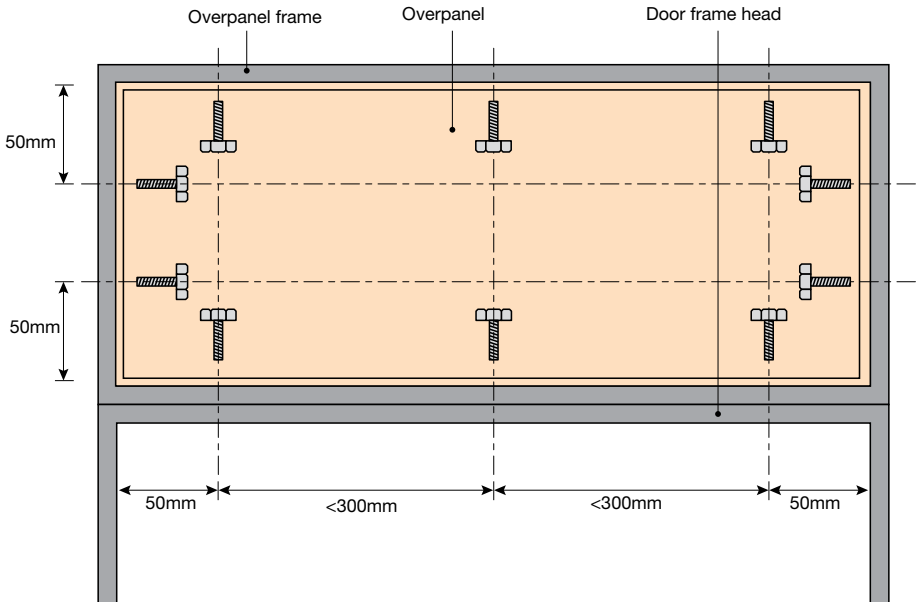
Sunray overpanels are supplied factory-fitted within the frame of doorsets. However, in some cases this may not be practical due to weight and size. In these cases the overpanel will be supplied factory prepared for site fixing and delivered separately.

Overpanels should be positioned to line through with the door leaf with the rebated face towards the opening side of the frame.

Secure the panel in place by drilling and screwing it through the back of the frame with

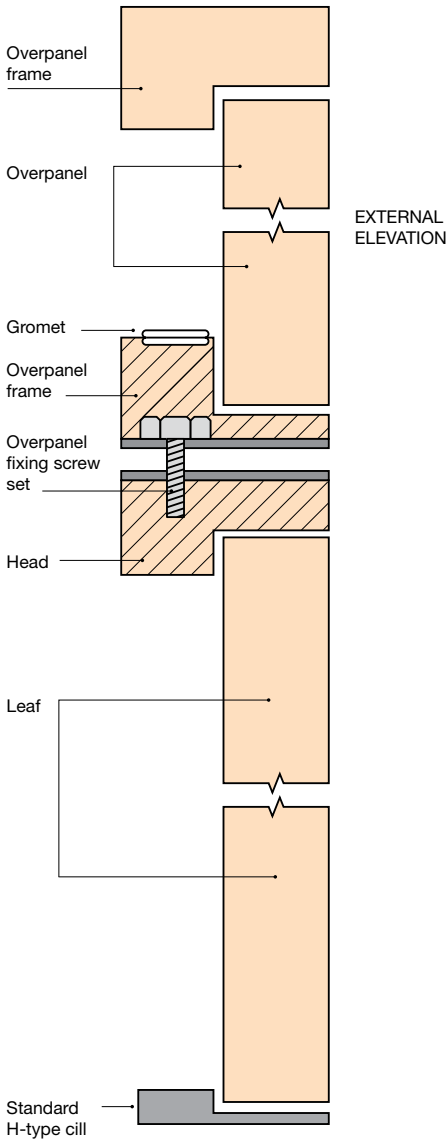
fixings 50mm in from the corners then fixing no greater than 300mm apart across the top and sides and across the transom (if fitted). Use a 6mm (approx) diameter screw (screw length must give 30mm of anchorage into the overpanel).

Due to the varying size and weight of removable overpanels/transoms and the height to which they are installed, a risk assessment must be carried out prior to installation work.

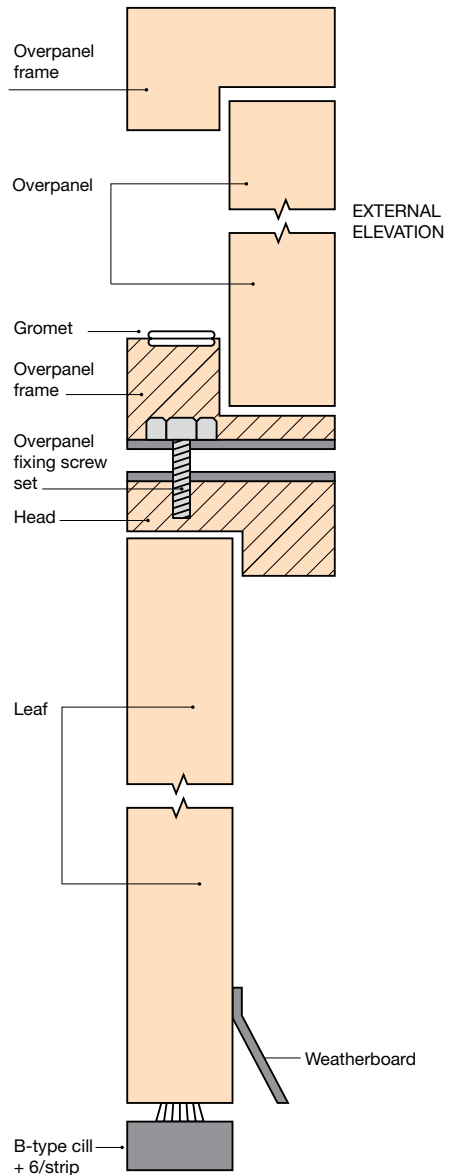


Overpanel fixing points.

OUTWARD OPENING DOOR



INWARD OPENING DOOR



## ExecDoor® troubleshooting

Fault	Cause	Solution
Doors do not fit in the frame.	Wrong door being offered.	Check that ID numbers match. ID is at the bottom of door leaf and on a label affixed to the inside of the frame on the active leaf side.
Doors will not close.	Mortar fouling closing surface.	Clean out and re-try.
	Foreign object between leaf and hinge jamb.	Clean out and re-try.
Doors will not shut to frame at top and/or bottom.	Frame out of square.	Correct by shimming as necessary.
Door leaves not level at centre.	Debris fouling receiving hole.	Clean out and re-try.
	Frame not level or square.	Re-align by shimming as necessary.
Drop bolts will not engage in the frame.	Frame not level and/or square.	Re-align by shimming as necessary.
Panic furniture not operating correctly.	Frame/mullion/transom misaligned causing stress on the panic furniture.	Remove frame section and re-fit square and level.
	Panic furniture not on correct doors.	Swap panic furniture with other doors (see labelling on boxes).
Triple locks top and/or bottom bolt do not line up.	Frame not level and/or square.	Re-align by shimming as necessary.
Unable to lock door.	Centre strike plate not filed enough.	File and re-try.
Maglocks do not work (SL500).	No power.	Check power supply to Maglock is correct and sufficient.
	For all other queries refer to manufacturer's troubleshooting guide.	

For further technical details of all our locking systems refer to [www.sunraydoors.co.uk](http://www.sunraydoors.co.uk)