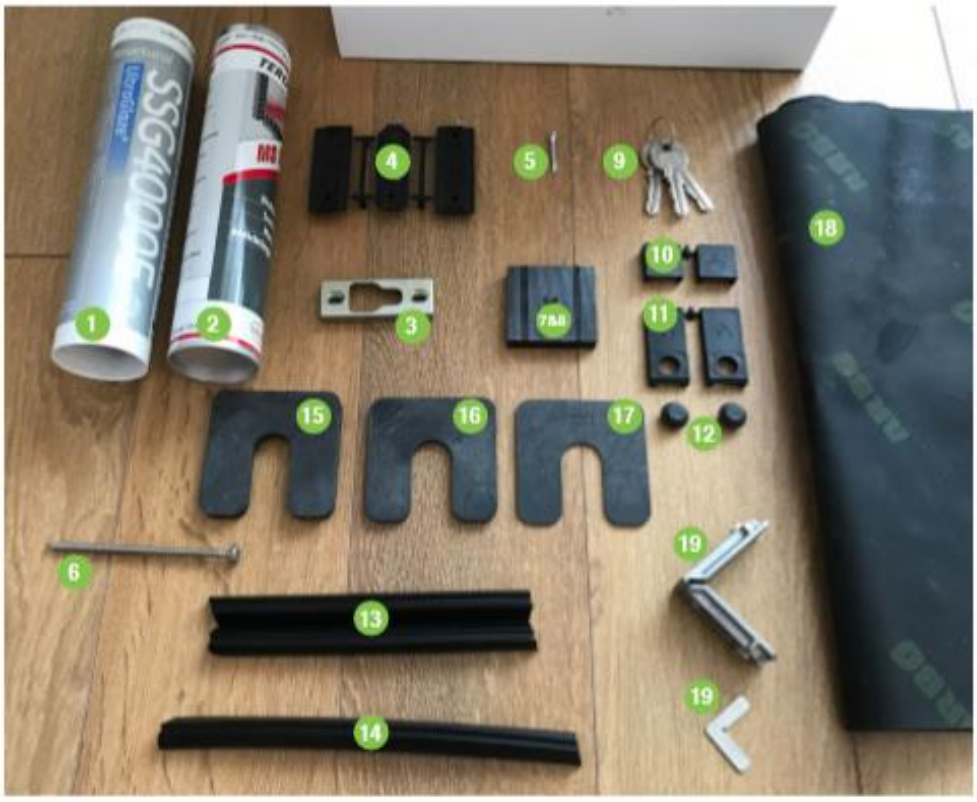
DOORS-DIRECT.CO.UK

Ultraslim Door Installation Guide

INSTALLATION GUIDE

A - COMPONENTS



What's in the box?

1.	SSG silicone (1 tube per panel)	11.	Lock end caps (2 per lock post)
2.	Adhesive (1 tube for outer frame corners)	12.	Rubber end stops (2 per lock post)
3.	Lock keeps	13.	Small gasket fixed units only OUTSIDE
4.	Lock keep packers (3 per lock post)	14.	Large gasket fixed units only INSIDE
5.	Self-tapping screws (2 per lock keep)	15.	9mm packing shims
6.	Mullion and lock screws (2 per mullion and locks)	16.	5mm packing shims
7.	Packers (4 per fixed glazed unit)	17.	2mm packing shims
8.	Anti-lift blocks (2 per door)	18.	EPDM
9.	Keys	19.	Corner cleats spare
10.	Mullion end caps (2 per mullion)		

A - COMPONENTS

Required tools

1.	Fixings for perimeter connections
2.	Drill with suitable drill bit for perimeter fixings
3.	SDS drill with suitable drill bit for perimeter fixings
4.	Impact screwdriver with screwdriver bits suitable for perimeter fixings
5.	Philips 2 and Pozi 2 screwdriver bits
6.	Laser level
7.	Tape measure
8.	Skeleton gun for silicone
9.	Expanding foam gun
10.	EPDM adhesive gun
11.	4mm allen key
12.	4 no. A-frame sawhorse
13.	Gasket sheers
14.	Rubber mallet
15.	Glass lifting pads and straps

B - PREPARATION

1. Check the opening.
2. Check the drawings.
3. Check the frame size.
4. Locate a dry area adjacent to the opening. Temperature to be above 3°C.
5. Carefully unpack the outer frame profiles and set out on the sawhorses.
6. Set out the frame parts with the outside to the top, ensuring you can see the drainage holes. Fig. B-2 remove any cover caps Fig. B-1.
7. Remove the corner clips to the base profile and set aside. Fig. B-3.

Fig. B-1

Fig. B-2

Fig. B-3

B - PREPARATION

8. With the adhesive coat all edge surfaces and fill all of the chambers in the aluminium profiles in order that a dam is formed at the ends of the profile. Fig. B-4.

9. Re-instate the corner clips ensuring that the push stud is securely located in the pre-punched hole in the profile. Fig. B-5.

10. On the top track, coat all edge surfaces with adhesive.

11. Ensuring that the brush seals for the locking posts are located in the correct positions, assemble the frames by inserting the corner cleats. With the push studs secured in the pre-punched holes, tighten the screws.

12. With the use of a suitable solvent cleaner or white spirit wipe away any excess adhesive.

Fig. B-4

Fig. B-5

C - OUTER FRAME

1. Check the sub base is between 50 – 65mm below finished floor level. If it is greater it is recommended that the base be built up with concrete/brickwork prior to the door installation.

2. Once the base has been brushed to remove any loose brick dust/ debris the EPDM membrane should be bonded in place ensuring that at least 15mm can be lapped up the rear of the frame. Additionally the membrane should return up the sides by approx.150mm.

3. Ensuring that the sub base is between 60mm and 50mm below finished floor level, set out the packing shims at a maximum of 400mm apart, to a level of 44mm below finished floor level. This will require 2 rows of shims to ensure that there is no twist in the frame and that there is a solid base for the frame to sit on.

4. The frame should now be prepared by drilling the clearance holes for the fixings. The hole size will depend on the fixings chosen however the locations will remain the same.
Holes should be within 150mm of the corners and 500mm c/c . See Fig. C-2 For location, and try to avoid the lock areas as the other chambers have cover caps or will be concealed by fixed glazing.

Ideally the base should not be fixed, and would be held in place by the surrounding floor finishes that are to be butted into it, however in the event that fixings are required see Fig. C-3 for the fixing hole location. When fixing the base ensure that stainless steel screws are used and that any penetrations through the EPDM are fully sealed with MA as the screw is fixed in place.

Fig. C-2

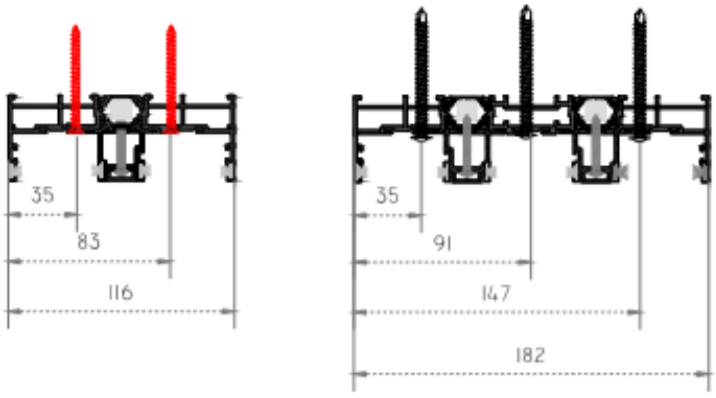
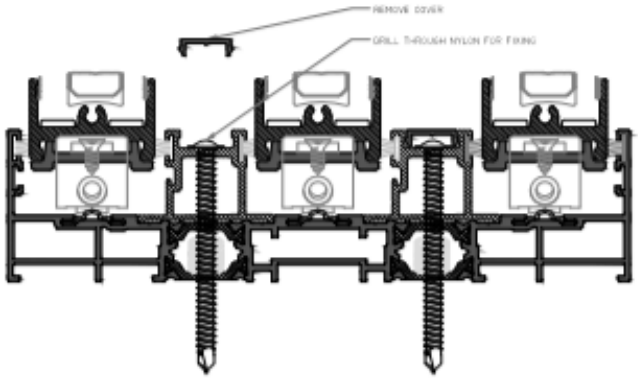


Fig. C-3



C - OUTER FRAME

5. The frame can now be positioned in the opening. For preferred fixing sequence see Fig.-C4.

6. Prior to fixing, the base track should be checked for level at each end. Ensuring that the frame is square to the opening and on the correct line, the bottom fixings on each side should screwed in place with packing shims as required to keep the frame centralised in the opening.

7. Ensuring that the frame is plumb and square all fixings should be screwed in place.

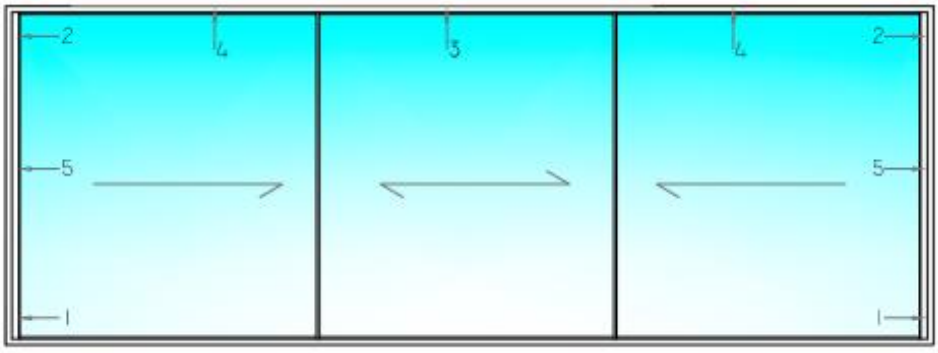
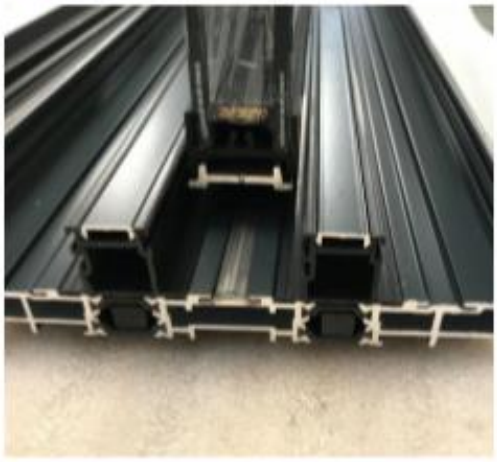


Fig. C-4
Elevation view from outside

D - SLIDING DOOR INSTALLATION

1. Un pack the lock posts, mullions and door runners.
2. Place the door runners on the sliding tracks Fig. D-1.
3. Check the glass for the outside skin. This will depend on the inner coatings, see label on the glass.
4. Starting with the inner most track, lift the glass into the top track, then lower the glass onto the door runner in the base track.
5. Check the runners are square to the base of the sliding door panel. If the door is stiff to operate this will be as a result of a twisted runner. Fig. D-2.
6. This process should be repeated for all glass door installation.

Fig. D-1



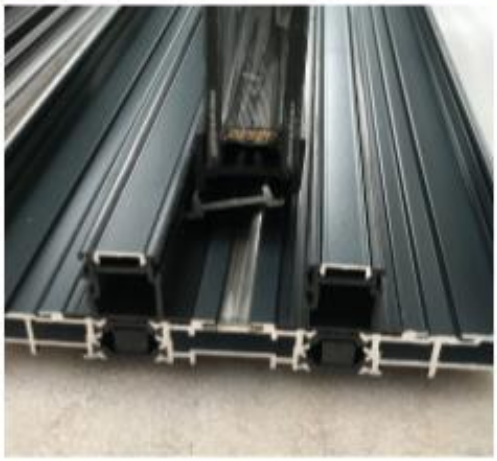


Fig. D-2

D - SLIDING DOOR INSTALLATION

7. With the glass in place locate the doors so that the edge spacer bars over lap, and check for alignment. Fig. D-3.

   If out of align check that the base track is level. If the base track is level the rollers can be adjusted Fig D-4, this adjustment is not normally required.

Fig. D-3

Fig. D-4

E - FIXED GLAZED UNIT INSTALLATION

1. Set out the packing shims Item 7 in the base track. This will require 2 of them on top of each other. Fig. D-5.

2. Check the glass for the outside skin. This will depend on the inner coatings, see label on the glass.

3. Starting with the inner most track, lift the glass into the top track, then lower the glass onto packing shims in the base track.

4. With the glass in place locate the doors so that the edge spacer bars over lap, and check for alignment. Fig. D-3. If out of align check that the base track is level. If the base track is level additional packer can be used to level the fixed glazed unit.

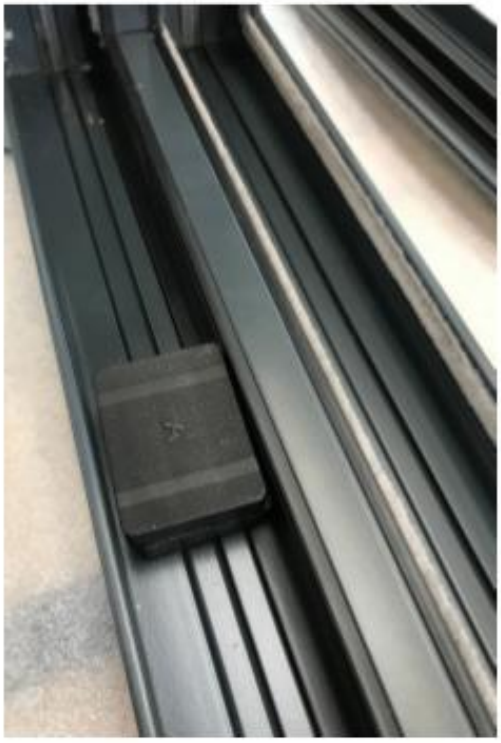


Fig. D-5

F - MULLION INSTALLATION DOORS

The sliding door mullions have a 25mm notch at the top and a 15mm notch at the bottom.
The fixed glass mullions have a 25mm notch at the top and 25mm notch at the bottom. Fig. F-1

Always dry fit every mullion prior bonding to ensure access and fit.

1. Lift the mullion so the top clip sits inside the profile in the top of the door. Fig. F-2

2. At the base lift the profile so that the bottom clip sits into the door profile, and slides on top of the door runner profile. Fig. F-3. Ensure that the mullion is tight to the base and head profiles before moving to step 3. Fig. F-4.

Fig. F-1

Fig. F-2

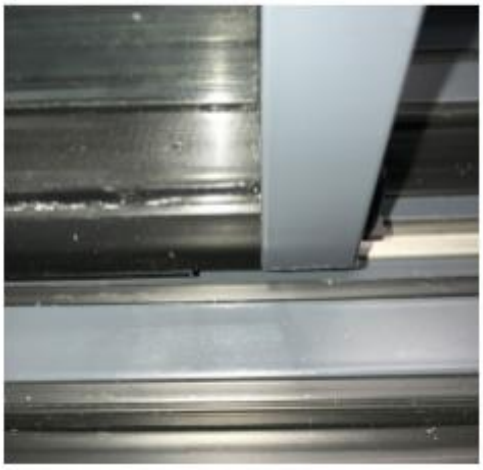


Fig. F-3
Mullion

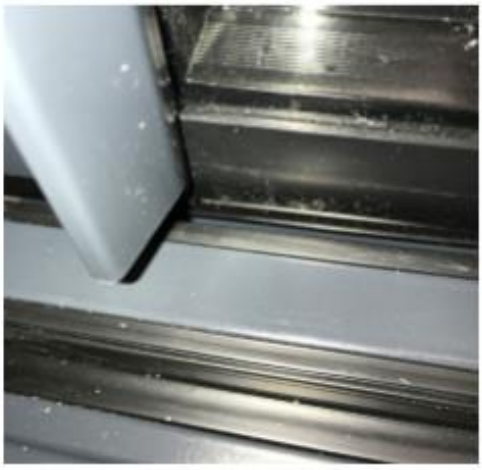


Fig. F-4
Lock post

F - MULLION INSTALLATION DOORS

3. Remove the mullion, clean the edge of the glass and the inside of the mullion and apply the silicone, Item 1. Fig. F-5

4. Repeat 1 and 2 then using item 6 screw the profile to the sliding panel. Fig. F-6

5. Check that the mullion is straight with the laser.

6. This process is to be repeated for all doors.

Fig. F-5

Fig. F-6

F - MULLION INSTALLATION FIXED GLAZING

The sliding door mullions have a 25mm notch at the top and a 15mm notch at the bottom.
The fixed glass mullions have a 25mm notch at the top and 25mm notch at the bottom. Fig. F-1

Always dry fit every mullion prior bonding to ensure access and fit.

7. Slide the mullion over the edge of the glass, and tape in place.

8. Install the base and head track cover caps.

9. GO TO THE LOCK INSTALLATION PRIOR TO CONTINUING.

10. With the locks installed, ensure that all mullion are located correctly Fig. F-7.
Adjust the fixed unit to ensure that all panels are located correctly.

11. Remove the cover caps and mullion and apply silicone (item 1) and re-apply to the fixed unit.
Replace the cover caps and gasket the glass in place using item 13 the small gasket on the outside and item 14 the large gasket on the inside.

Fig. F-7

Fig. F-8
Mullion screw caps

G - LOCK POST INSTALLATION

The sliding door locks have a 25mm notch at the top and a 15mm notch at the bottom.

Always dry fit every lock prior bonding to ensure access and fit.

12. Lift the lock post so the top clip sits inside the profile in the top of the door. Fig. F-2

13. At the base lift the profile so that the bottom clip sits into the door profile, and slides on top of the door runner profile. Fig. F-3.

14. Remove the lock post, clean the edge of the glass and the inside of the lock post and apply the silicone, Item 1. Fig. F-4.

15. Repeat 1 and 2 then using item 6 screw the profile to the sliding panel. Fig. G-5.

16. Check that the lock is straight with the laser.

17. This process is to be repeated for all doors.

18. Place a small pea sized blob of silicone (Item 1 on each of the locking points Fig. G-6, then close the door.

Fig. G-5

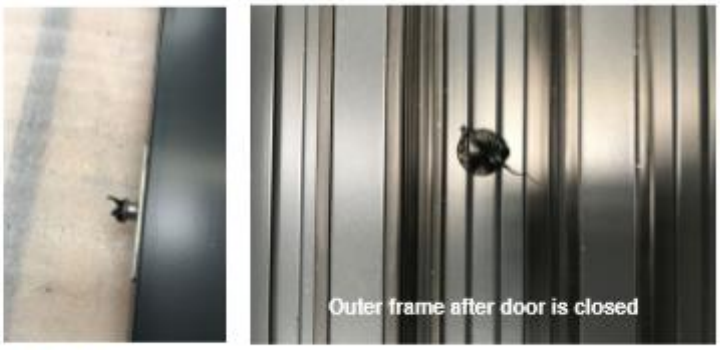


Fig. G-6
Lock point

G - LOCK POST INSTALLATION

19. Using item 5 screw the lock keep to the outer frame. Only use the bottom hole. Then using the smallest of the lock keep pack shims screw the keep in place. Fig. G-7.
Clean off the silicone from the lock point and check for operation. If the handle is stiff and all the mullions are located correctly, the keep may require a deeper packer. (0.5mm, 1mm and 2mm are provided.)

Each lock keep should be checked individually and the lock flap needs to be flush and needs to be locked with the key.

20. The process can then be repeated for all locks.

21. When all keeps are tested the final screws can be fixed.

Place lock keep

Fix using 1 screw

Remove the lock keep and place shaped packer

Re-fix lock keep

Fig. G-7

G - OPENING CORNER POST INSTALLATION

The sliding door locks have a 25mm notch at the top and a 15mm notch at the bottom.

Always dry fit every lock prior bonding to ensure access and fit.

1. Lift the lock post so the top clip sits inside the profile in the top of the door Fig. F-2.

2. Sit the corner post on a 5mm packing shim and slot around the door glass and tape in place Fig. G-8.

3. Close the doors together and check that the locks locate. Adjust the level of packing under the corner post until the door closes and locks.

4. Noting the required packing, remove the corner post, apply the silicone and bond in place. Ensure the packing is in place and lock the doors.

   The doors will need to be left locked and taped closed for 48 hours to ensure correct adhesion. If access is required and there are no other sliding doors, a fixed unit could be slid out of place and a temporary door installed.

Fig. G-8

INSTALLATION GUIDE

ON COMPLETION

With the door set fully operational install the cover trims, and anti lift blocks within the top track. These should be positioned to cover any exposed fixings.

The edge weather seals of the frame work will depend on the building fabric and materials used, however we would always recommend using expanding foam to fill any voids and maintain the thermal efficiency of the building along with either a silicone seal or compriband tape external seal.