

ALUMINIUM PATIO



DOOR INSTALLATION GUIDE

Please read guide before beginning any installation.



- Instructions/Guides ☐
- Keys & Handle Screw Covers ☐
- Interlock Covers ☐
- Anti-Lift & Rubber Stops Anti-Lift for Slim Interlock Stoppers ☐

- Cill End Caps Drainage ☐
- Caps Night Vents ☐
- Glass Packers Glass ☐
- Perimeter Foam Wedge ☐
- Gasket ☐

- Screws for keeps final fixing (4.2 x 45) ☐
- Screws for fixed door (4.2 x 65) ☐
- Screws for slim interlock through glazing channel (3.9 x 13) ☐

NOTE: Outer-frame supplied fully assembled unless otherwise specified

Please read guide before beginning any installation

1. Kit Form Assembly
2. Head Extension / Add-on
3. Installing the Outerframe & Thermal Tape (for outerframes with upstand)
4. Frame Closers
5. Installing Door Sashes
6. Drain Trays
7. Adjustable Wheels (must be done before fitting anti-lift / covers)
8. Interlock Mullion
9. Anti-Lift Guides
10. Slim Interlock Fitting Guide & Slim Interlock Cover Trim
11. Bonding of Slim Interlock
12. Door Stopper & Glass Perimeter Foam (see note regarding slim interlock)
13. Cover Plate for Threshold & Sides

NOTE: Outer-frame supplied fully assembled unless otherwise specified

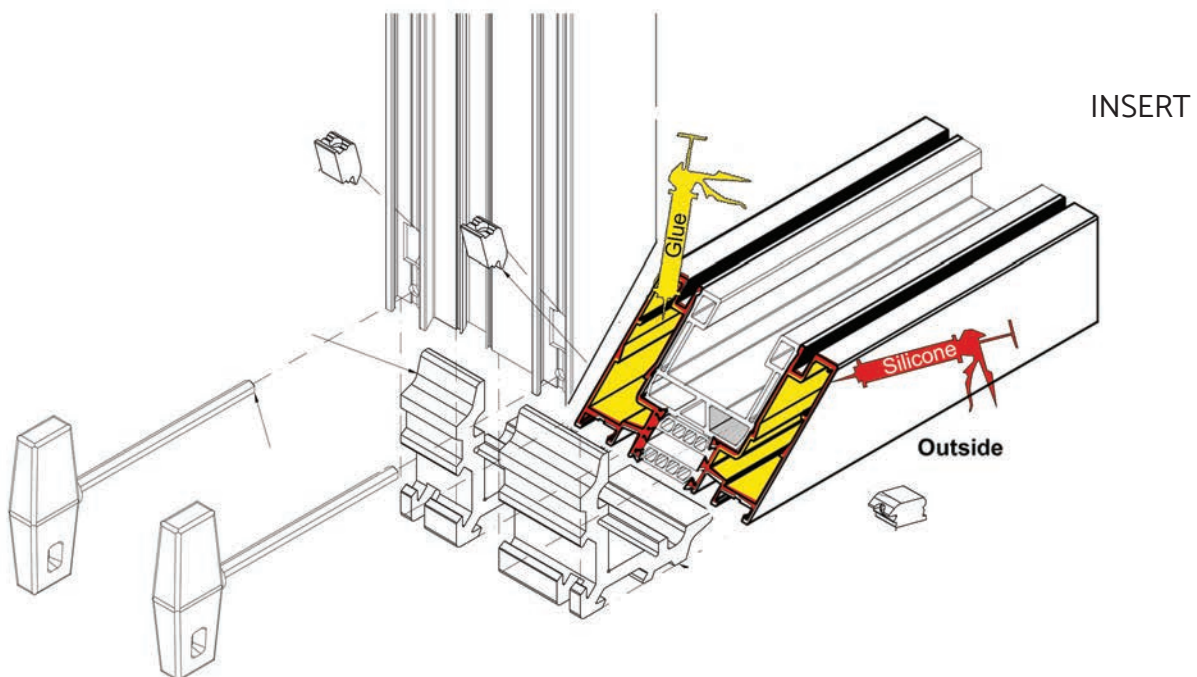
INSTALLATION GUIDE

NOTE: Outer-frame supplied fully assembled as standard unless otherwise specified

FRAME ASSEMBLY AND INSTALLATION KIT

FORM ONLY

1. Degrease saw cut
 2. Use the glue provided inside the chamber where the cleats fit, use plenty but do not block drainage. Seal all the
 - 3 faces with good quality silicone (not supplied). All bare metal edges should have a thick bead applied, as should
the thermal break and insert. **Do not use the glue supplied for this.**
 4. Fix the corner cleats with a 2.5mm hexagonal key.
On occasions this may be a 3mm allen key. (These are not supplied)
 5. It is important that after the joint has been made to smother the outer corner where the cleat blocks fit to ensure
 6. no water ingress at the side and bottom.
- Repeat process for all four corners.



INSTALLING THE OUTERFRAME

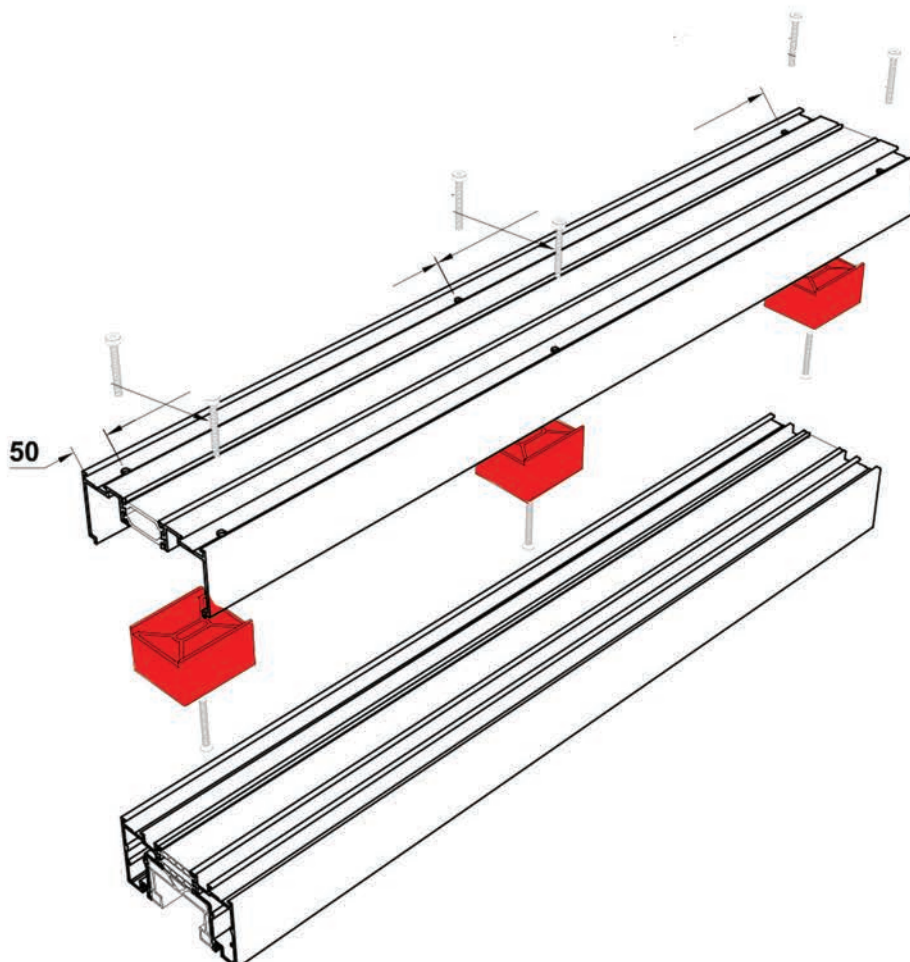
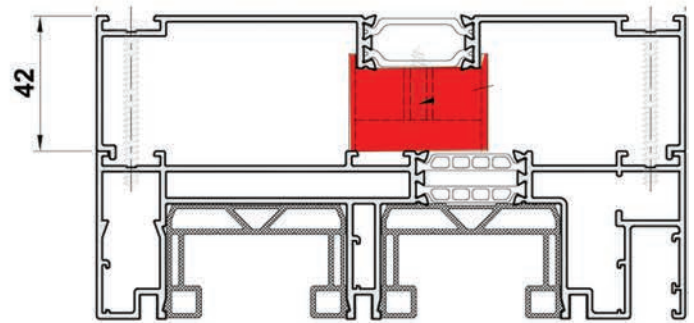
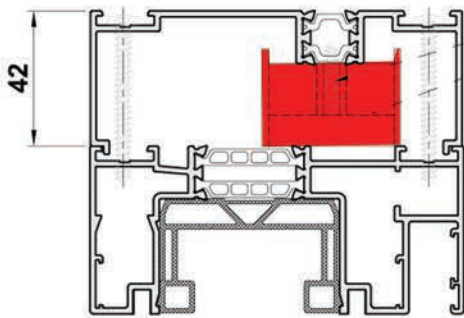
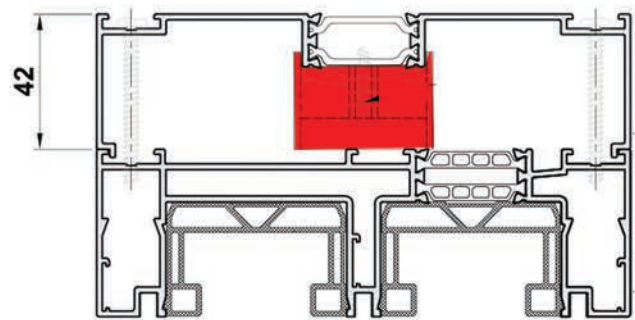
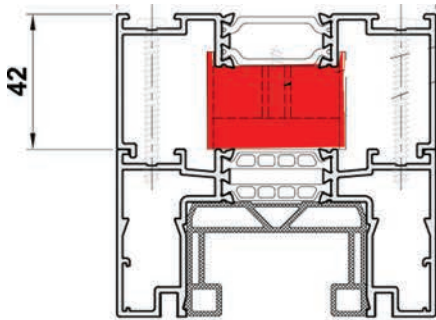
Installation Checklist

- | | |
|--|--------------------------|
| Frame will fit in the opening with out distortion | <input type="checkbox"/> |
| Head/Bottom of the frame fixed straight and level +/-2mm | <input type="checkbox"/> |
| Sides fixed plumb | <input type="checkbox"/> |
| Ensure outer frame is true and square | <input type="checkbox"/> |
| Lock operation tested and working | <input type="checkbox"/> |

NOTE: Outer-frame supplied fully assembled unless otherwise specified

HEAD EXTENSION

The head extension is fitted using the supplied fitting blocks.

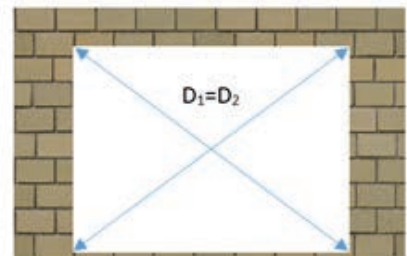
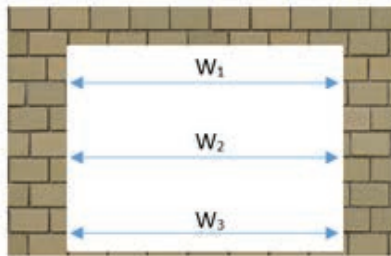
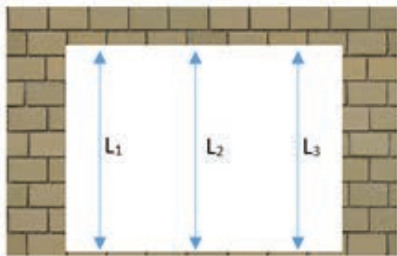


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INSTALLING THE OUTERFRAME

Please note our Patio doors are, wherever possible, supplied assembled and tested. However in some cases due to size & weight they are supplied in kit form, for this reason it is imperative to read this booklet before attempting installation.

- 1 Firstly check the frame will fit the structural opening and it isn't tight to the brick, ideally 10mm to 15mm clearance required, also check how level the opening is.
- 2 Ensure the structural opening is clean and free from debris and old silicone
- 3 Fit any add-ons if applicable and lift frame into the opening. Take care when handling the frames as they are heavy and awkward. Be careful not to catch the frame on any brickwork.
- 4 Ensure the apertures loadbearings are not transferred to any part of the frame when fitted



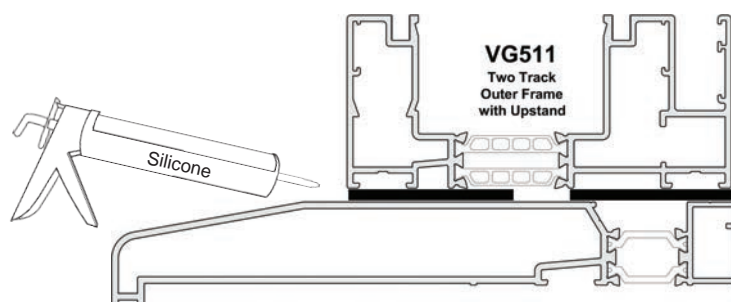
- 5 Once the frame is in the aperture you will need to 'pack it' into place. Ensure it is all plumb, level and square by using a spirit level & measure all three dimensions at regular intervals ensuring the frame is packed regularly down the sides and across the head. Ensure the frame isn't overpacked causing any bows or bends. Ideally packing will be at the fixing points
- 6 Now you can start to fix the frame into the structural opening. Ideally start approx. 150mm from the corner of the frame and then at a maximum spacing of approx. 600mm. Repeat this around the frame checking there is sufficient packing around the fixtures and that after tightening check again for any bowing, twisting and that all is square. Adjust as required. Taking care here will save time during the rest of the installation

THERMAL BARRIER TAPE

When an outerframe with an upstand is required that sits on a cill it is necessary to use a thermal barrier tape to stop the bridging of the thermal break.

This is normally fitted to the bottom of the frame but can also be placed along the cill, this is purely to stop heat/cold transfer.

Once you have fitted the patio to the cill it will be necessary to run a small bead of silicone over the joining face as is standard practice.



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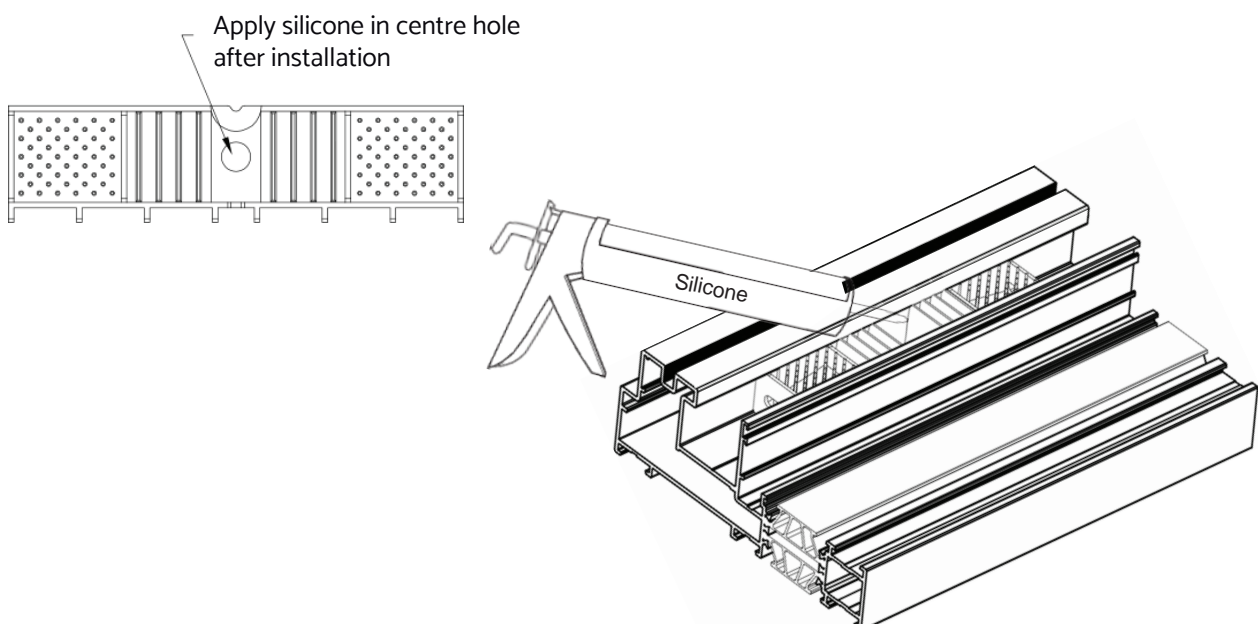
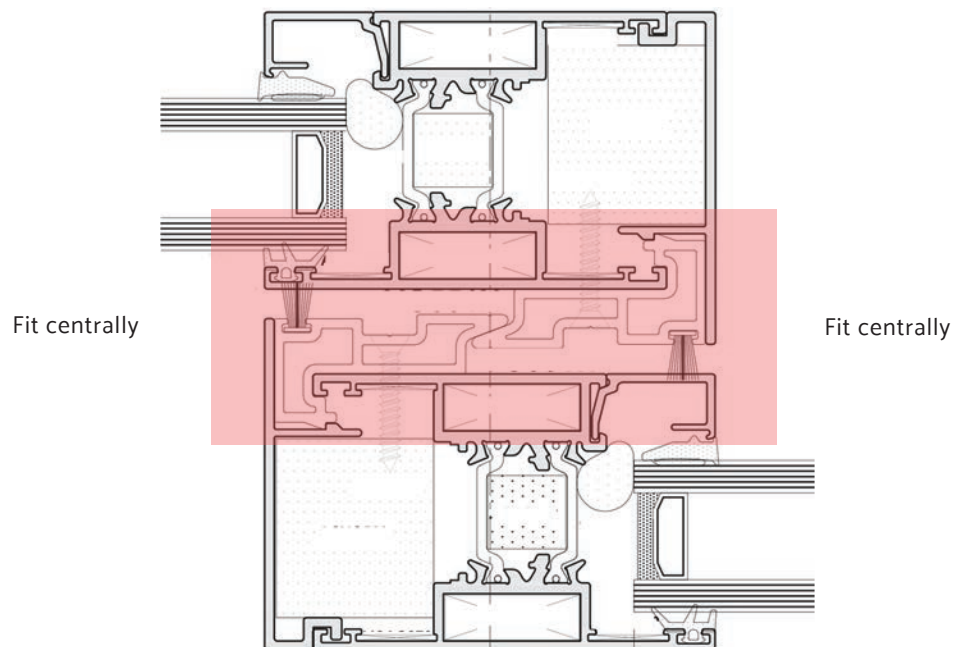
FRAME CLOSERS

Rubber seals are fitted to the top & bottom of all frames where the interlocks meet. These are normally factory fitted; the only exception to this is on large, split frames

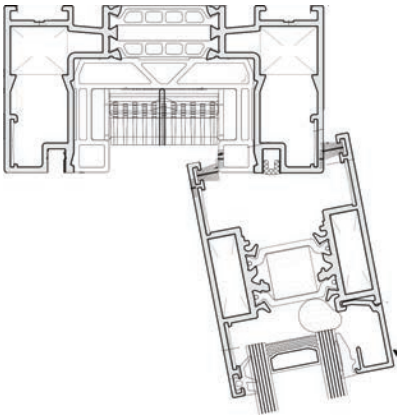
If the closers need to be fitted on site then it must be done before all the doors are in the frame.

You can either measure out the distances or you can fit the first door roughly in place and locate the closer, apply silicone as shown then move onto the next door.

It should sit equally underneath the interlocks and is held in place by simply applying silicone as indicated. Until the silicone has set please take extra care when sliding the doors as the closers may drag and move.



INSTALLING THE DOOR SASHES

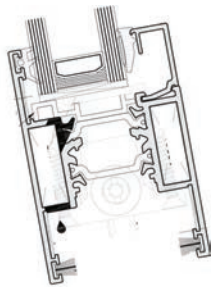


Locate the top of the door sash to the head of the outerframe ensuring the cut-outs line up with the frame.

Check angle at which the door sash is being inserted as if its too great or too small it will result in damage to the item.

Once the door sash is inserted into the head of the outerframe the bottom should be able to swing into the bottom of the outerframe and locate onto the track.

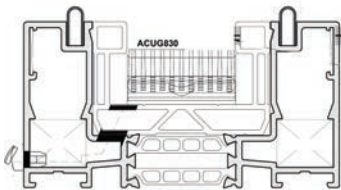
N.B. This is normally a tight fit so a slight flex in the frame can be helpful. Sliding doors are fitted to the **INSIDE** as standard. Fixed door seals to the frame with a gasket as opposed to a brush seal to aid weatherproofing. We do not fit gasket to the sliding doors as this can scratch and scuff as the doors slides along.



FIXED DOORS SLIDE ONTO THE FIXING BLOCKS FITTED INTO THE OUTERFRAME

To set up the doors we recommend installing all of the doors, locking the master then setting the fixed door to suit so that the interlocks meet correctly. This is the same principle for 3/4 doors etc. Please remember that all sliding doors should have some side to side movement when closed. The interlocks should not meet too tightly, for example on a 3 door all sliding the centre door should have around 5mm of side to side movement. This is normal to allow for expansion / contraction.

Once satisfied, screw the fixed door into position. In some instances, it may be necessary to remove the black support blocks to allow the sash to overlap the frame more to ensure the interlocks meet correctly. To do this simply unscrew the block. Apply silicone to any holes to seal and protect.



Set the door to the required position (remember doors should have a small amount of side to side movement to allow for expansion / contraction). No movement or too excessive movement means the fixed door needs moving over.

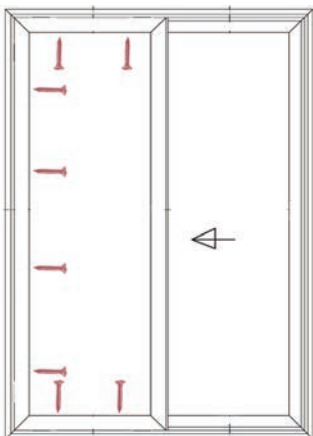
Screw the sash to the frame at the top and the bottom using the packers provided as washers. **DO NOT OVERTIGHTEN.**

Do the same down the side but pay attention to ensure you do not bow or twist the sash.

It is useful to use the glazing packer supplied as a washer for the screw so you don't damage the thermal break by overtightening. Ensure the screws will not interfere with the glass. Bed with silicone where the door is screwed in.

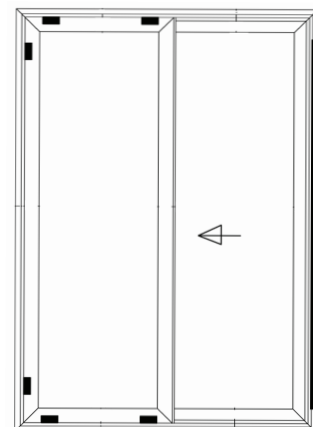
Once the doors are fully glazed it may be necessary to make a slight adjustment to the keep as the doors may have moved / wheels adjusted. We do not fit the keep in position for this reason.

Simply loosen the screws in the keep, slide as required and re-tighten. Once you are satisfied it is in the correct position install the fixing screws provided to secure it.



Fix 100mm from ends then approx every 1000mm maximum

Position of fixing blocks, obviously depending on style of patio



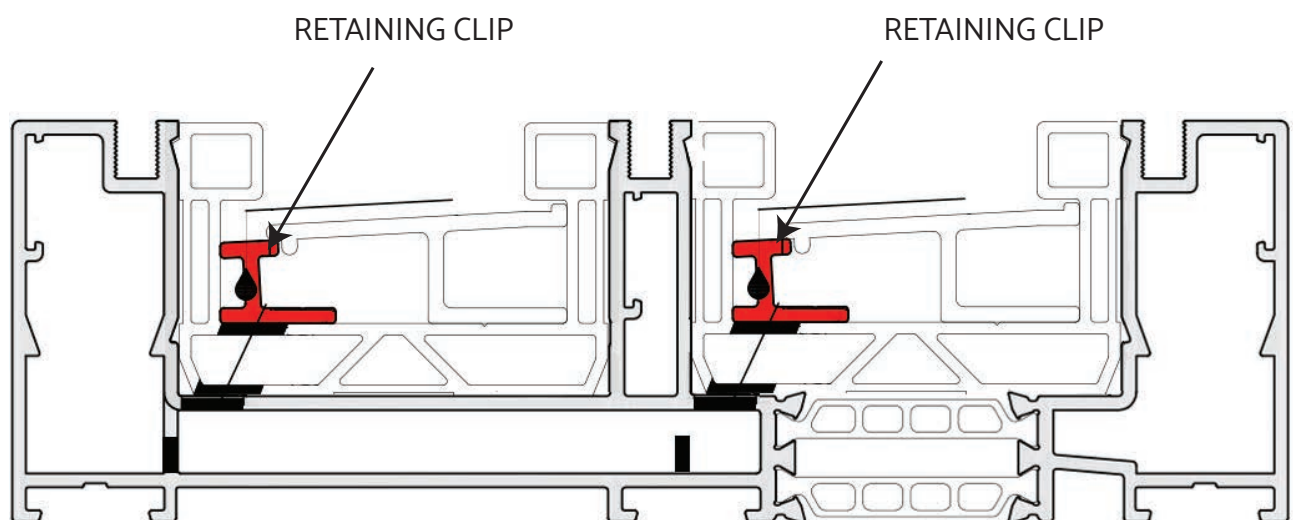
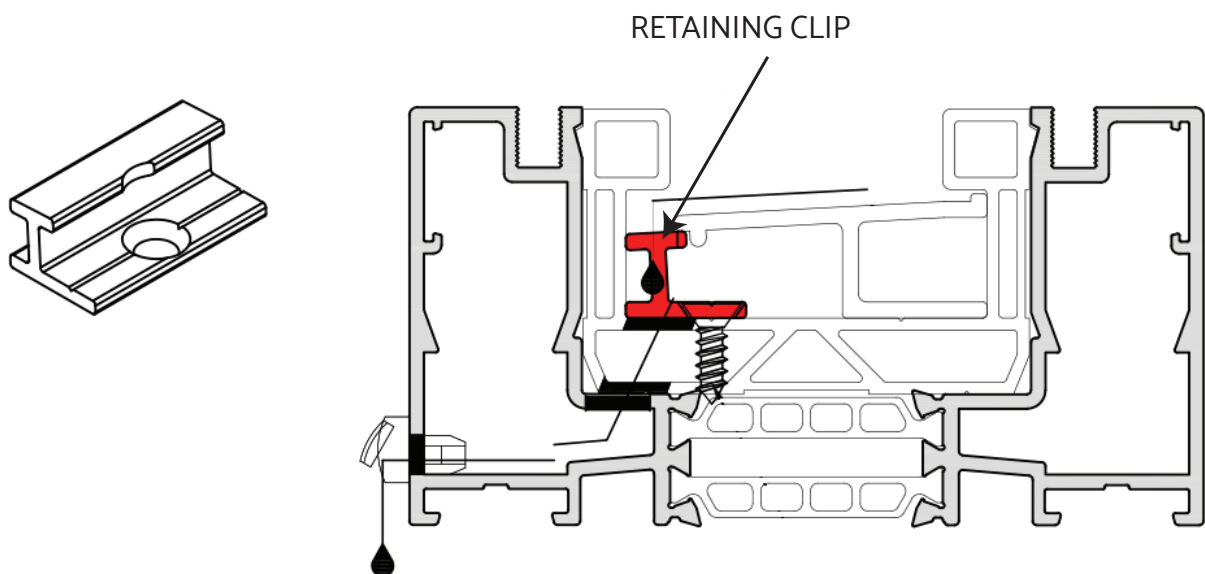
Keep

DRAIN TRAY

To aid the drainage and appearance of the bottom track a drain tray will be fitted as per the diagrams below. Their aim is to direct the water down and into the drain channel but to also eliminate the sight of standing water.

These are normally factory fitted but on large kit forms they may need to be site fitted.

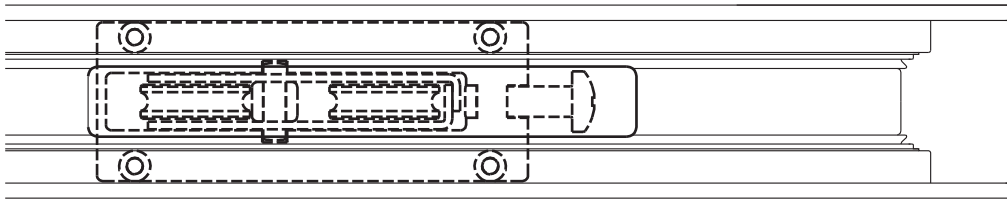
Simply screw on the retaining clip at no more than 500mm centres. Cut the drain tray to size, if closers are fitted then cut up to this. It then simply clips into place.



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ADJUSTABLE WHEELS

The wheels used on the Visoglide+ patio system are adjustable in height.



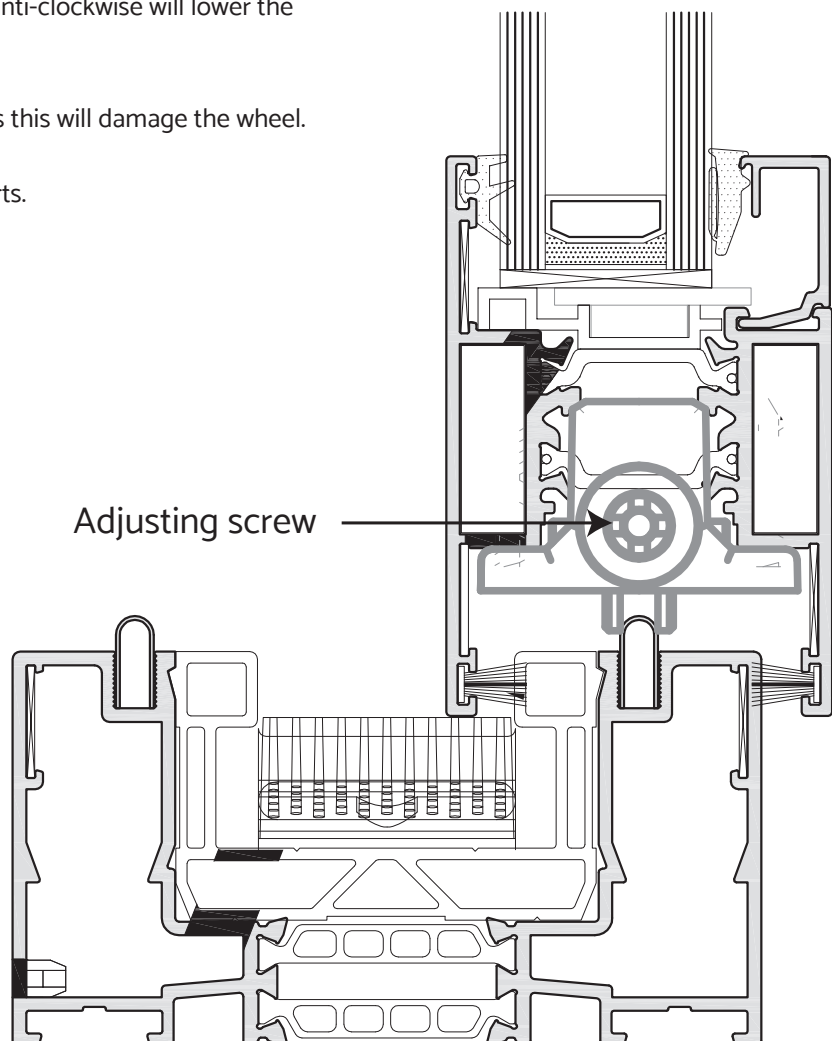
The wheels are supplied in a pre-set position; however, they are not 100% accurate due to tolerance, fitting etc. It is easier to adjust the wheels prior to any glazing or fitting of any guides and trims as they will require removing to gain access.

To adjust the wheels, remove any interlock floating mullions (if fitted), remove the anti-lift guide at the bottom of the lock side (buffer stop) and the interlock cover on the other side. Place a long screwdriver into the gap between the sash and the frame.

Turning clockwise will raise the wheels, anti-clockwise will lower the wheels.

Be careful not to overtighten to adjust as this will damage the wheel.

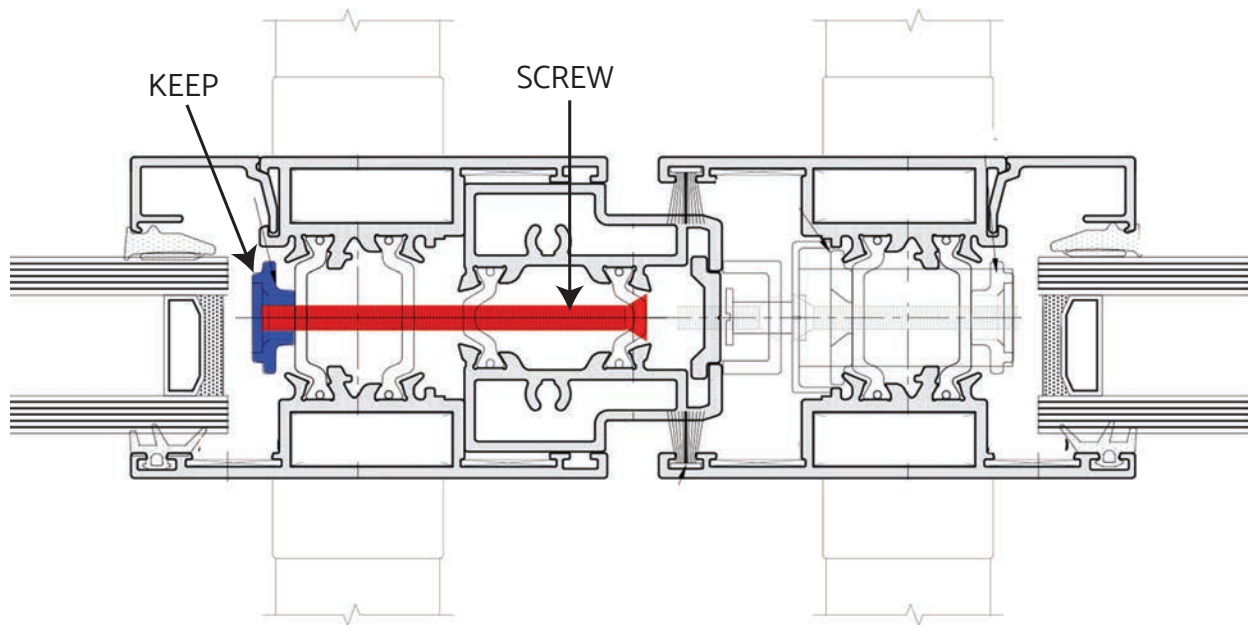
Once satisfied replace all the moving parts.



INTERLOCK MULLION

If you have to fit the interlock to the doors use the screws and plates provided. Ensure the screws do not protrude into the glass unit, cut back if necessary. **If you wish to adjust the wheels this mullion will need to be removed.**

The keep locates into the channel and will require adjusting after fitting by loosening the screws and sliding into the required location. Once in the correct position, fix the keep into place



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ANTI-LIFT GUIDES

Anti-lift guides are fitted to all sashes.

On fixed doors they are installed on the interlock side (top & bottom) but not on the frame (wall) side, this is to eliminate movement.

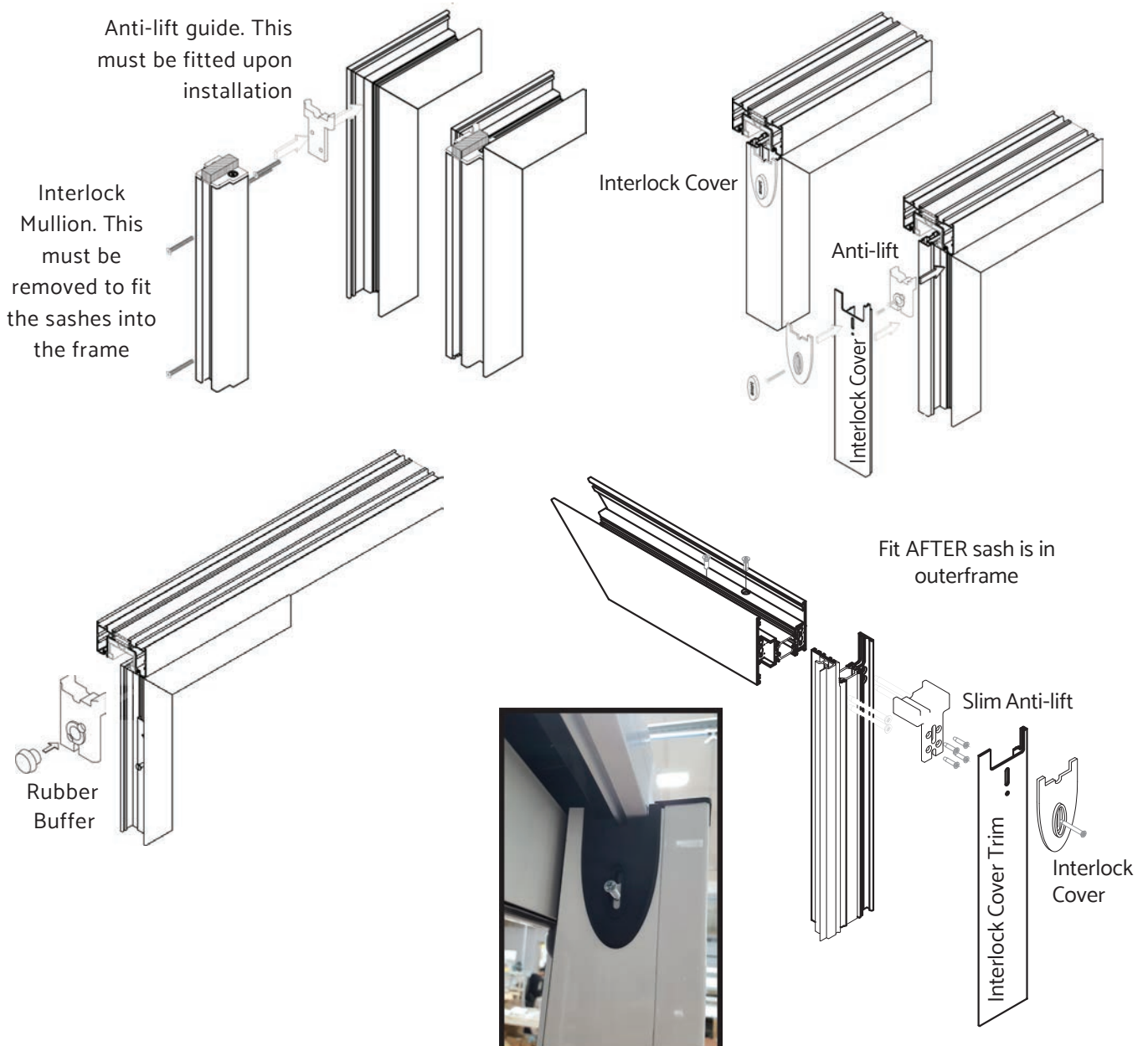
On sliding doors they are fit to the top of both sides and the bottom of the lock side.

The lock side anti-lifts (top & bottom) also double up as buffer stops.

No anti-lift is fitted to the interlock side at the bottom as this would obstruct wheel adjustment access. Anti-lift guides come in 3 sizes.

On the lock side a rubber bung is pushed into the anti-lift to act as a buffer.

Take care when screwing these on as if it is done incorrectly they can drag causing a binding feeling.



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SLIM INTERLOCK FITTING GUIDE - see also TRIPLE TRACK UPDATE

On the patio with the slim interlock you will notice the cover trim requires screwing on as per this picture. Unfortunately this must be done after installation and before the doors are glazed. The holes will be pre-drilled ready for installation



Fit the first door onto the track - DO NOT glaze at this point

Fit the Anti-Lift guides onto the sashes

Unscrew the plastic interlock screws, this should stay in place as we use silicone to hold it into position

Fit the interlock cover trim - this simply clips on

Fit the interlock end covers and screw into place

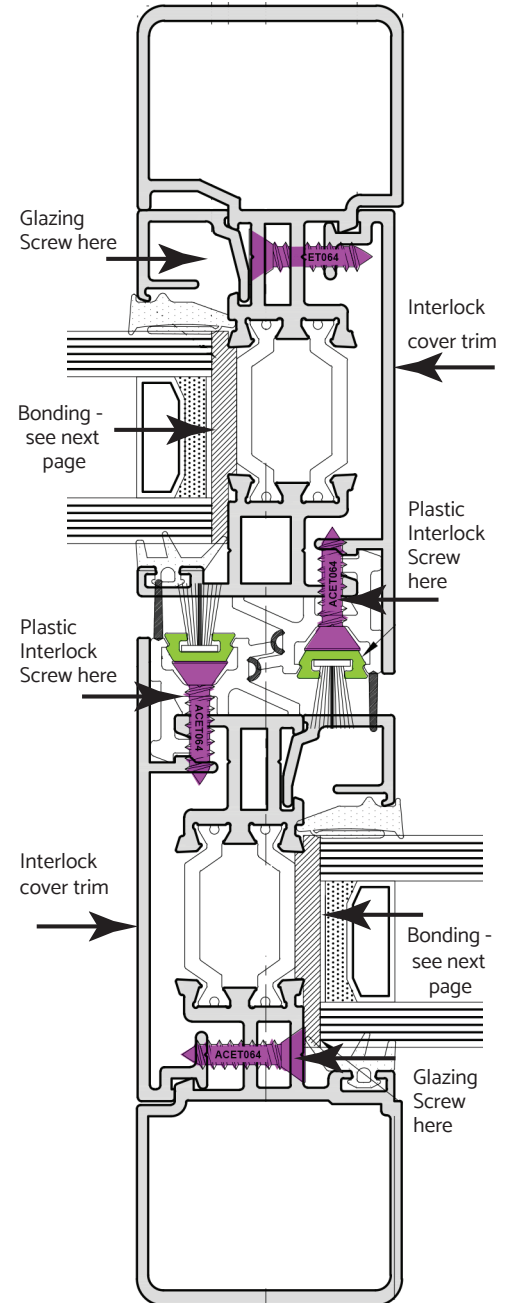
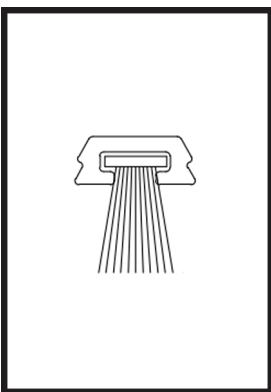


Re-fit the plastic interlock screws - these pick up on the back of the cover trim and secure it in place

Now carefully fit the screws into the glazing channel - this is the final fixing for this trim. Ensure they do not go straight through. Once This has been done you can insert the brush strip. This simply clips into the plastic interlock. As it is plastic we recommend using a touch of silicone to secure it in place to stop any future movement.

This must be done before glazing otherwise you will not have access

Repeat for all doors



INSTALLATION GUIDE

TRIPLE TRACK SLIM INTERLOCK FITTING GUIDE

On patios with the new reinforced slim interlock the centre doors require the glass to be shuffle glazed. This cannot be done if all the doors are fitted to the frame. The process for this will be as follows:

Fit all the doors into the frame so you can set them up to interlock correctly as per INSTALLING THE DOOR SASHES in the installation guide.

Once this has been done, and any fixed door secured into place, it is then necessary to remove the internal sash. On a normal 3 door patio this would be the sliding master.

You will then fit all the anti-lift pieces and interlock cover trims to the doors installed in the frame. Fits screws as required.

Glaze the external door, bonding the glass into place as you normally would. Fit the beads and wedge as normal.

For the centre sash you will apply bond to the glazing channel on the reinforced side. This will be on the thermal break face. Fit the glass by shuffle glazing into place. If possible pack the glass to ensure a snug fit, then bond the other edge into place. Fit beads and wedge. Ensure it is plumb and level

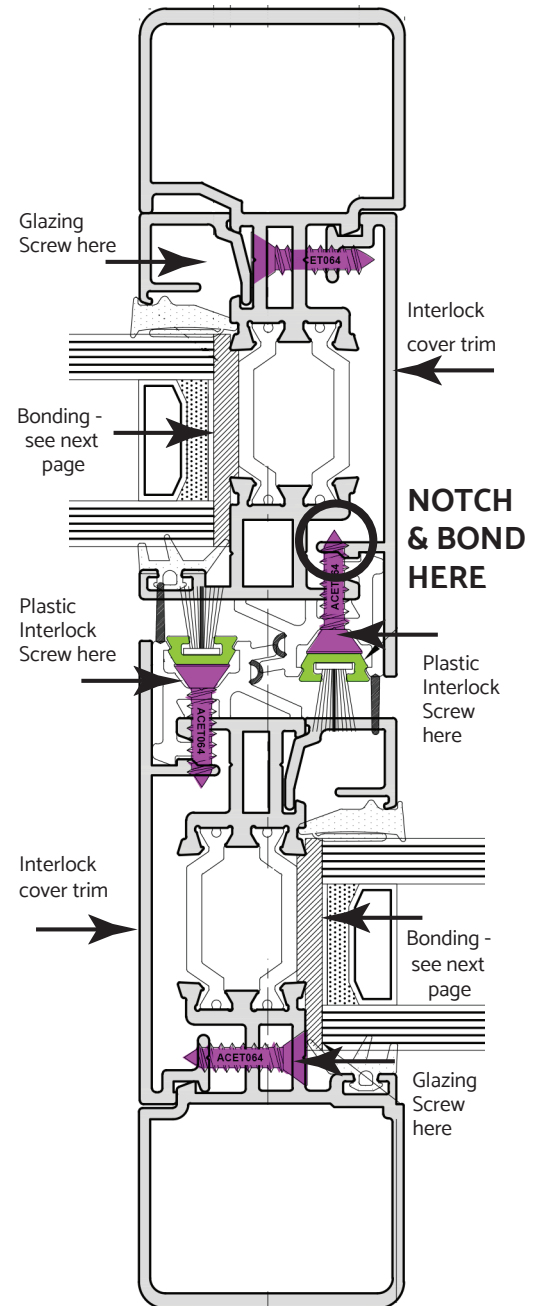
Now you can introduce the master slider back to the frame and fit your anti-lift pieces.

To get the interlock cover to fit it will be necessary to cut a **small notch** in the cover to clear the plastic interlock screws.

Once this has been done the cover can be clipped on. We would advise that a line of bond be fitted to the edge to avoid any rattling. The notch will allow the plate to be clipped on without interfering with plastic interlock screws.

The glazing screw (through the glazing chamber) can now be installed to hold the interlock in place securely.

The glass can now be bonded and packed as normal. Fit beads and wedge.



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BONDING OF SLIM INTERLOCK

A bonding sealant must be applied to the full height of the slim interlock side to prevent any deflection. This is supplied in your box and must be done upon installation.

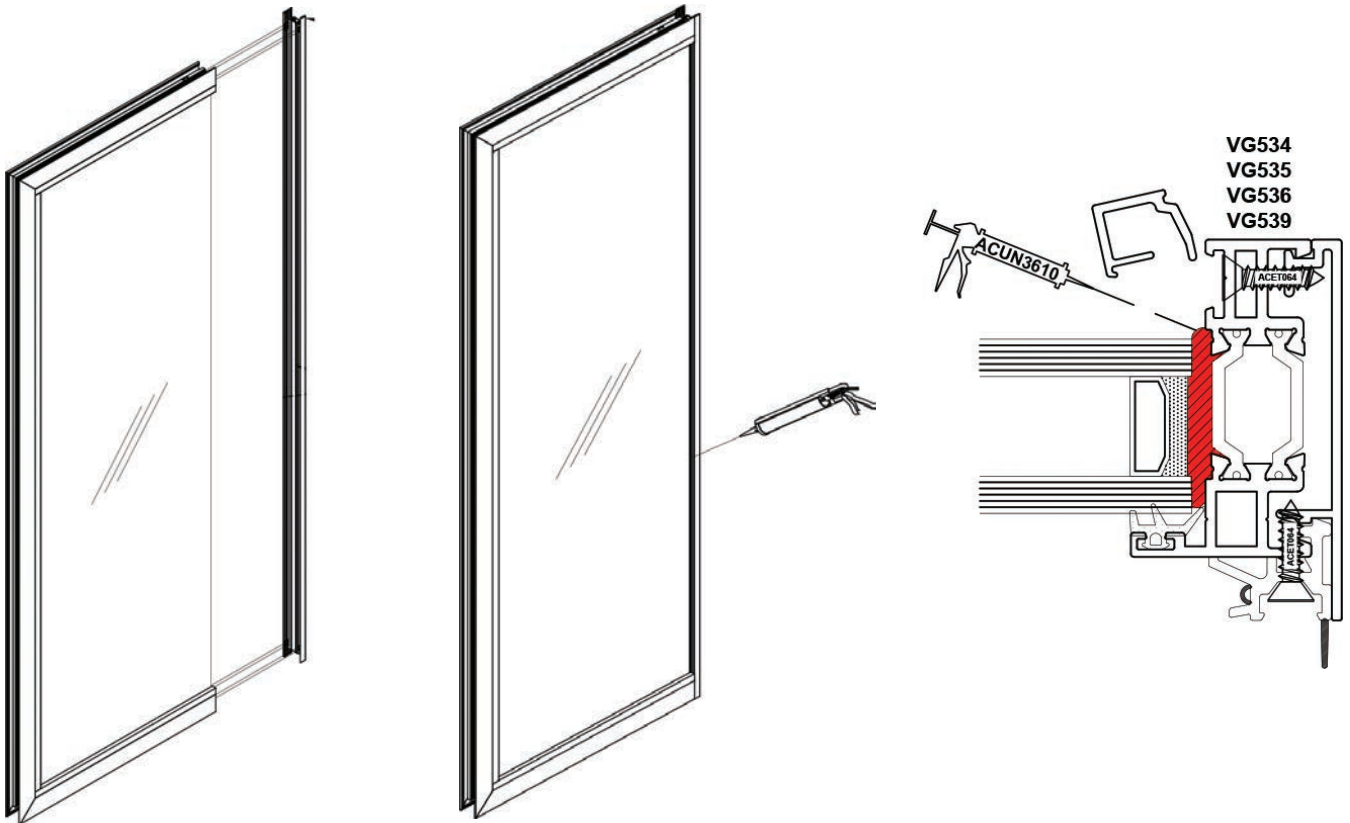
*Note the unit must be untaped and be dust and dirt free.

Pack the glass into position within the sash.

Insert the sealant into the space between the glass and the slim interlock.

You must ensure the full height is bonded but take care not to bow or twist the sashes as this will cause issues.

****Please be aware that once this has been bonded it must be left overnight so it can set. The door cannot be used during this time.**



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STOPPER & GLASS PERIMETER FOAM

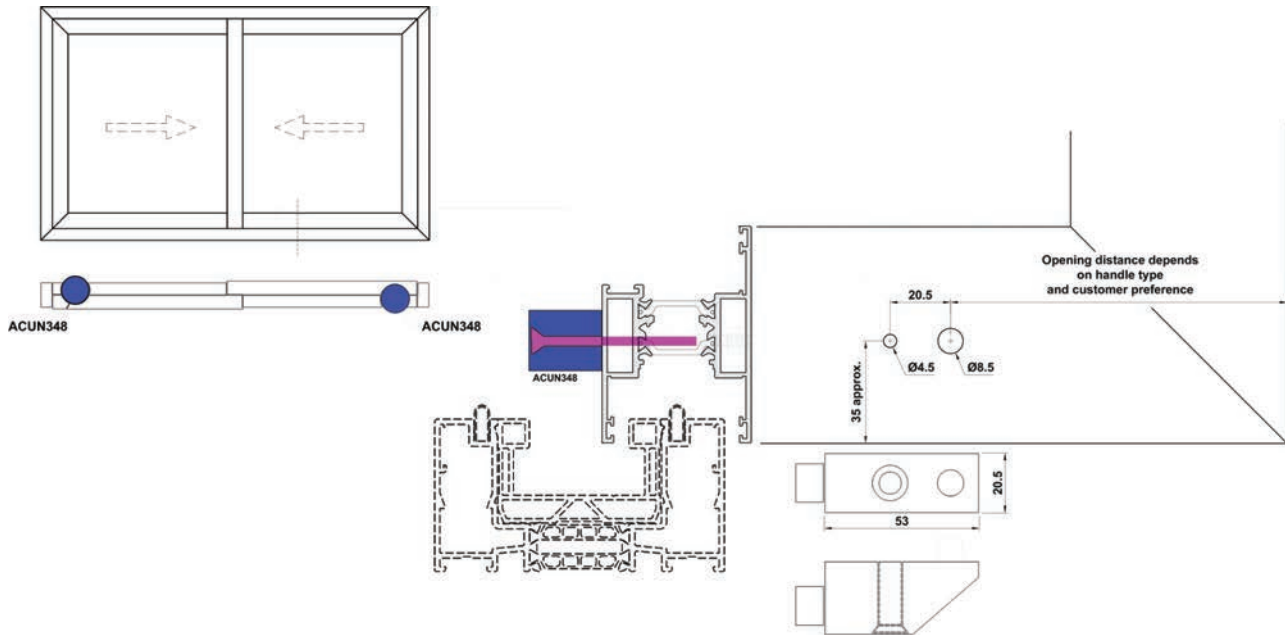
Before drilling for fitting ensure it will not interfere with the wheels and glass.

Ensure handle does not interfere with interlock before fitting stopper.

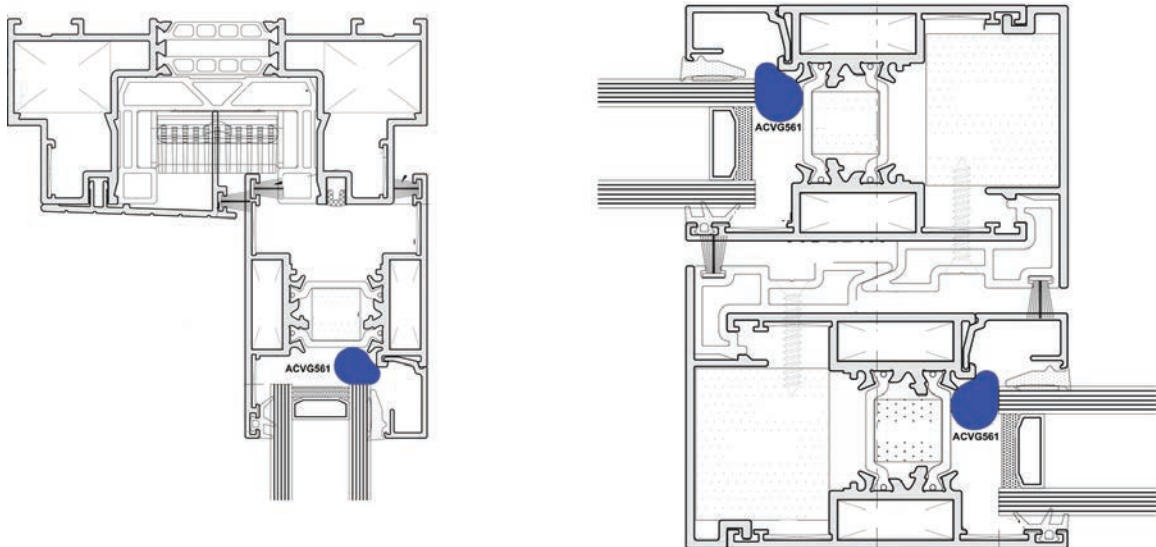
1. Drill holes as below into fixed pane (drill bit not provided).
2. Locate lug on stopper into hole.
3. Screw stopper to the side of the fixed panel.



Ensure you mark the correct door and as always measure twice before drilling



GLASS PERIMETER FOAM INSULATION



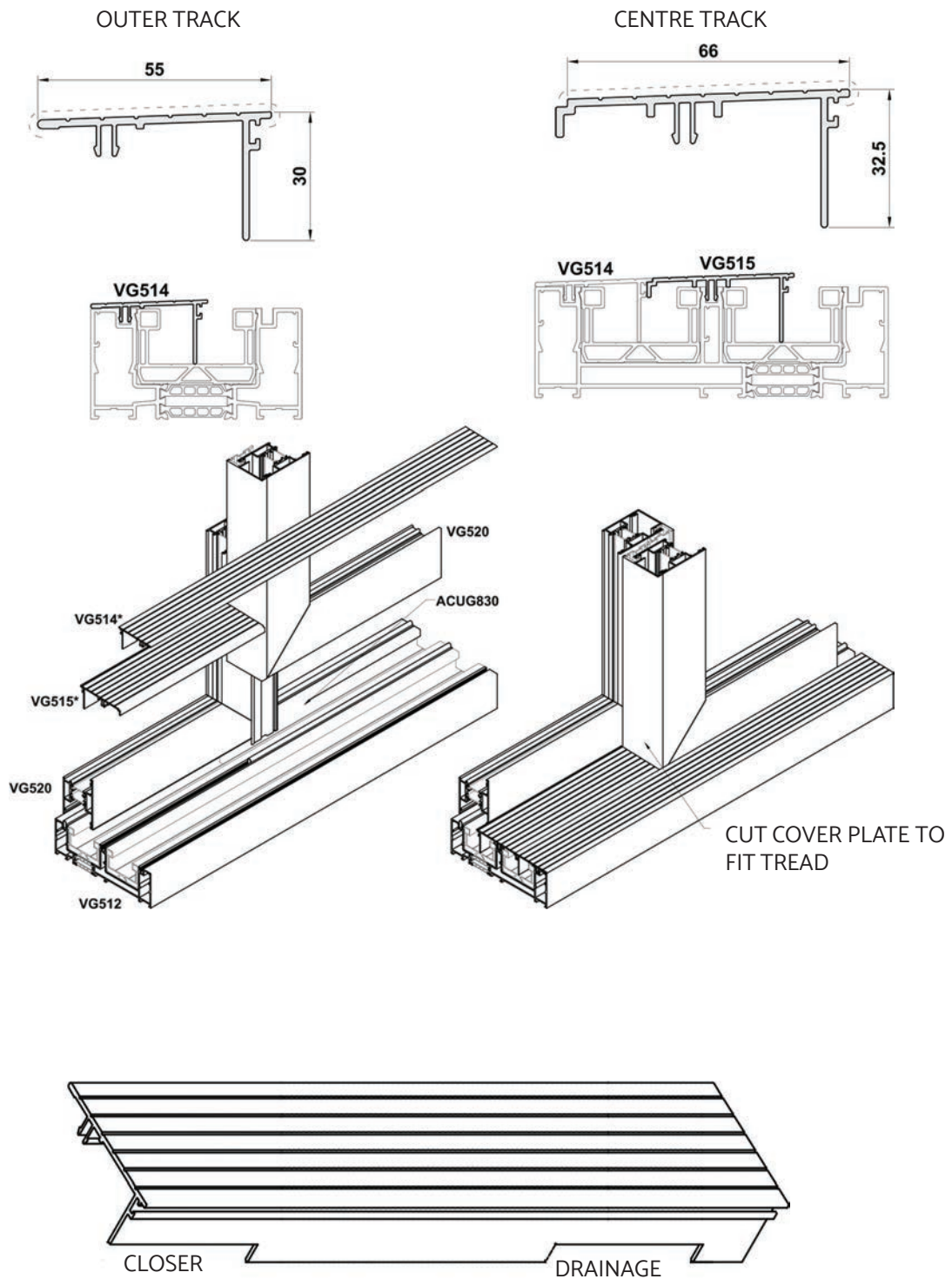
Before starting to glaze please be aware that the glass will be a snug fit. It is designed to be this way to support the interlock and help with rigidity. Also note that the glass should be untaped.

After installation of the glass and correct packing you can now fit the glass perimeter foam (grey foam tubing supplied in the box). This is simply a push in foam that helps to increase the weather protection of the doors. Cut to the length required (glass size + 100mm) and push into the gap between the glass and the sash as illustrated in the pictures. It is normal to start at the top corner and work your way around.

Please note that if you have a slim interlock the glass perimeter foam is only required for 3 sides - it is not required for the interlock side as this should be bonded, please refer to previous page.

COVER PLATE FOR THRESHOLD & SIDES

These are supplied cut at a 2 degree angle on one end and supplied slightly longer so that they can be cut on site after installation of doors to ensure the best fit possible. Once installation is complete, cut to size and fit by tapping gently with a rubber mallet. Ensure they are a snug fit.



The bottom tread will have notches for the drainage. The notches fit around the frame closers (see FRAME CLOSERS page)