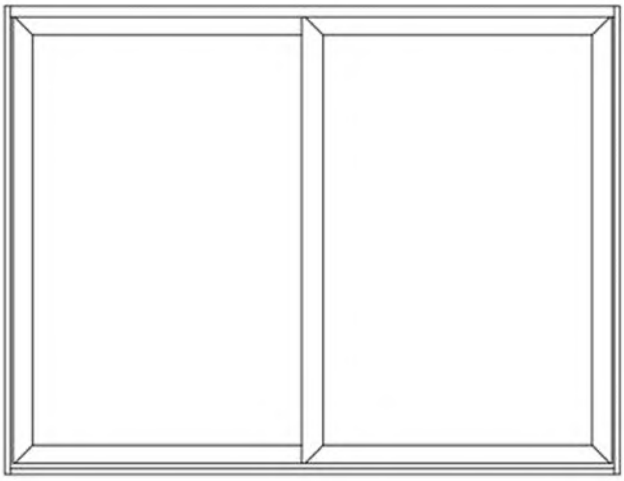
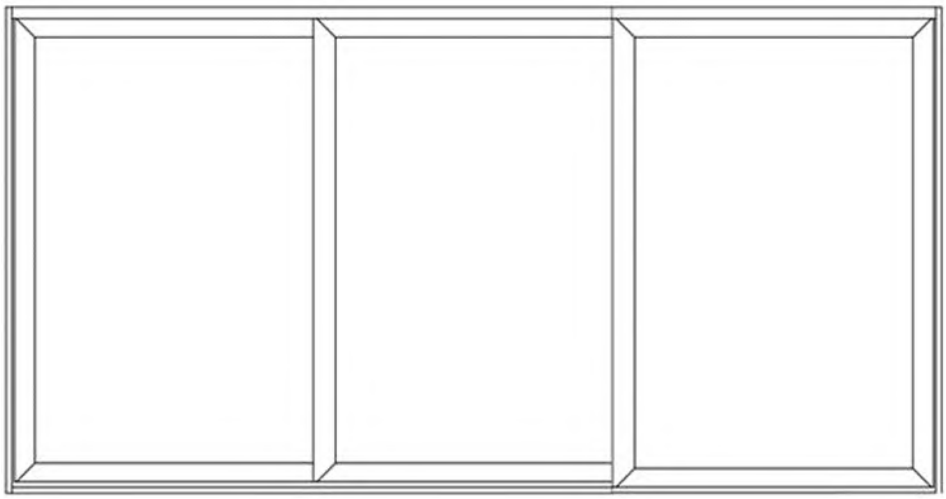
COR VISION SLIDING PATIO DOORS

Assembly Instructions





About your COR Vision Sliding Patio Door Set

All products must be installed in accordance with accepted good trade practice (and in accordance with supplied instructions where applicable) and maintained in accordance with these procedures or else the warranty shall be void.

The advice given in this document assumes fitting will be carried out by a qualified professional following the Code of Practice for the Survey and Installation of Windows and External door sets, where applicable.

Important Information

All of our external aluminium sliding doors and frames, hardware components and powder coating are guaranteed for a full 10 years against the occurrence of manufacturing faults and the double glazed sealed units are guaranteed for 5 years, all subject to correct installation, regular maintenance and care in use as detailed below.

Before you begin installation, please ensure you've received the correct product — including colour, size, and specification — and that there are no damages or issues. Once you're fully satisfied, you can proceed with fitting your door.

Do not install a product if it has not arrived as per the original order specifications and / or is damaged.

We recommend that a competent trades person installs this product. A single person must NEVER carry out the installation, as some of the components are heavy.

Handling and Storage

Take care when unloading the products as they may have shifted during transportation. The products are heavy. Always wear gloves, use specialized equipment such as glass lifting suction cups and have at least two people to unload / carry them.

You are responsible for safe handling of the products, and for selecting appropriate handling equipment.

Conduct a thorough inspection of the product(s) immediately after receiving them, including temporarily removing any protective tape, and then reapplying before installation.

Important: All damages or missing parts must be reported within 72 hours of receipt and before commencing installation. When storing the doors / frames and glass before installation, and once all items have been fully checked, they should be handled with care and stored in a dry, ventilated building.

Glass should never be placed directly onto hard floors such as concrete, but should be placed on cardboard, sheeting or wooden batons, on edge rather than flat. The glass should be stored on its edge and at a 3–6-degree angle. Glass should not be stored horizontally or on top of each other and should not come into contact with anything harder than itself.

Important: The glass must be inspected before being fitted. We cannot accept claims for any missing items, damages or scratched glass after 72 hours following delivery or after installation has begun.

Glass lifters / suction cups should be used during the installation of these doors (not supplied).

Installation

By commencing or completing installation, you are accepting the product as it has arrived.

This door set is designed to be installed by competent trades persons with good knowledge and previous experience of installing sliding doors. Thoroughly read and understand these instructions before you begin installation. It is presumed that the installer possesses basic skills and an understanding of door, window, wall and roof installation, and joint sealant guides.

Before commencing the installation, carry out a final check to make sure the aperture is the correct height and width to accommodate the outer frame size. The brickwork opening should be approximately 10mm greater in both height and width than the outer frame size when measuring at the tightest points.

Our aluminium doors are designed for simple on-site assembly by experienced trades persons. The outer frame needs to be securely fixed into the opening perfectly square and level on all planes. The aluminium sliding doors are bottom hung, the weight of the doors is supported via the sliding hardware and threshold.

Important: The threshold must be sufficiently packed to ensure there are no dips or rises along the full length of the bottom tracks. The bottom tracks must be fully supported from front to back. The tracks where the weight of the doors are sat must not overhang any bottom brick work / supporting sections. When fixing the frame head, ensure there is no bowing.

Care and Maintenance

Aluminium Door and Frame Components

All our aluminium sliding door sets are supplied fully powder coated providing a high quality and durable finish, unless otherwise stated.

The profiles may have protective tape applied to interior and exterior surfaces to protect them during manufacturing and handling. Protective tape must be fully removed before or on installation. Protective tape and masking tape should not remain on exterior surfaces for an extended period of time. They will begin to fuse to the surface making the adhesive residue difficult to remove. Failure to remove tape may permanently damage the frame finish.

To maintain the external aluminium powder-coated finish, wash regularly with soapy water and then dry off with a soft lint-free cloth. As a minimum, the external surfaces must be washed at least every three months, and monthly if within five miles of the sea or in an industrial area. Our general recommendation would be to wash the external aluminium every time you clean your windows, which should normally be more regularly than the minimum requirement.

The powder coating is not guaranteed unless the doors are installed at least 800 metres away from the sea.

The threshold should be kept clear of debris and regularly cleaned to ensure the drainage channels remain clear, which can be done whilst cleaning the rest of the door set. The threshold should be stepped over when entering and leaving and not used as a step, to avoid damage to the threshold and seals.

Important: We cannot accept any claims for damages, including scratches to the powder coating and aluminium reported 72 hours following delivery, and / or after installation has commenced.

Glazing Units

To reduce carbon emissions from the home and to keep heating and cooling bills down, the government has recommended that all manufacturers use a special Low E thermal glass within the sealed units to comply with Building Regulations Part L.

This glass is coated with a special substance to comply with the above and occasionally, and in certain light conditions, may produce transient visual effects, this can sometimes look like a transparent film or haze, and make the glass appear cloudy. This is very infrequent and only affects a minority of door sets. As a company, we do have to comply with the new regulations which are for the benefit of all, and this is not a detect.

Due to demands for better thermal efficiency, it is normal for condensation to form on the outside of the glazing units, to the exterior side of the property. This demonstrates that the glass is performing as it should by reducing the transfer of heat from the internal side of the property to the external side of the property, this is not a defect. For any condensation forming to the inside of the property, this is normally due to high levels of moisture in the air and / or insufficient ventilation in the room, the moisture is then forming on the cold surface. If condensation is forming inside the glazing unit (between the panes of glass) it is likely that the glazing seal has been compromised.

Tempered glass means it has been toughened to be up to five times stronger than normal glass. It is unusual to break such strong glass, but sharp objects hitting the glass at certain points can cause breakage. Tempered glass is also known as safety glass. This means that if it breaks it will shatter into smaller fragments which are less likely to cause injury, unlike non-tempered glass which breaks into large, sharp fragments.

Laminated glass is also called safety glass and comprises of multiple layers of glass sandwiched together. Due to its high strength, this prevents the glass from breaking into large pieces. If the glass breaks, it will produce a 'spider web' effect similar to what is commonly seen in shattered car windscreens. Laminated glass will also increase the sound rating insulation.

Glass must be regularly maintained and cleaned to stop break down of the glass or seals. This can be done using a mild solution such as washing-up liquid diluted in water. Do not use abrasive cleaning solutions as this may cause scratching.

Visual distortions caused by reflections in toughened glazing units are a natural phenomenon and not a fault.

Laminated, toughened or coated glass is acceptable if bubbles or blisters, fine scratches no more than 2.5cm long and / or minute particles are neither obtrusive nor bunched. The glass used in sealed units is processed glass, therefore certain blemishes are unavoidable. More blemishes may be visible in laminated glass due to its layered construction.

For carrying out glass inspections, stand at least 3 metres away from the glazing, view at a 90-degree angle and look directly through the sealed unit(s). The glass must be viewed in natural daylight but not with the sun directly on it. Any moisture must be removed from the surface of the glass before inspecting.

Hardware Components

The exterior hardware in your sliding door set can deteriorate from everyday use, and also because of the weather and local environment. That's why regular maintenance of your door

hardware is even more important if you live in severe environments like coastal / marine areas and some industrial locations.

We require that the below minimum maintenance is carried out as often as necessary to prevent deterioration. As a guideline, we recommend that this maintenance is done every three months if you live in a marine environment, or every six months if you live in a more general location, otherwise your guarantee will not be valid.

Tracks and bearings

Once your installation has been completed, and before fully operating your door set, please carefully remove any debris / swarf from the top and bottom tracks to ensure nothing comes into contact with any moving components.

After cleaning the tracks, using a microfibre cloth, apply a small amount of lubricant such as a silicone spray to the inner lip of each side of the track. Extra lubricant can be added around the bearings. Adding lubricant in this way reduces wear, improves smoothness and gives additional protection against corrosion of track and bearings.

Locks and handles

Your sliding door is opened and closed by raising and lowering the handle and locked using the key. The lock should operate just as smooth with the access door in the open position as what it does when it is fully closed. It is important that if you feel any excessive resistance when operating the handle, you do not continue to operate the doors as this may eventually cause the lock to fail and will invalidate your guarantee.

All moving parts should be lubricated using a silicone spray. The handles should be regularly cleaned with a soft damp microfibre cloth to remove any dust or grime taking care not to scratch the surface.

If you experience problems with locking or unlocking the doors, first eliminate actual locking problems by opening the access door and pulling the handle downwards and then turning the key. If this can be done, the lock is operating normally, and the problem is likely to be due to incorrect door alignment / adjustment.

Door Operation

Sliding door sets have become more popular due to customers wanting to maximise the size of each glazed panel, giving more light and fewer interrupted views. The bigger the glass area the heavier the individual panels will be, which in turn will cause extra resistance when operating the heavier doors.

All our aluminium sliding door sets have been pre-assembled in our factory. They are installed into a steel framed testing rig where they are fully operated, including checking the doors lock and unlock smoothly. The door sets are then part dismantled, packaged up ready for dispatch and onsite assembly.

If you experience any difficulty operating your doors, including opening, closing, sliding and locking, do not continue to use your doors as this may cause further issues and damages. Please contact a member of our customer service team so we can assist you further.

Contents

Supply Option 1 (Built up outer frame)

Doors – Fully Glazed (individually wrapped)

Outer Frame – Assembled

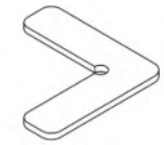
Supply Option 2 (Kit form outer frame)

Doors – Fully Glazed (individually wrapped)

Outer Frame – Broken Down

Cleats – Qty 2 per corner (double track) Qty 3 per corner (triple track) (bag located in frame)

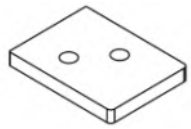
Chevrons – Qty 2 per corner (bag located in frame)



Additional Hardware

Keys – bag located in frame

Anti Lift Blocks & fixing screws – Qty 2 per moving door (bag located in frame)

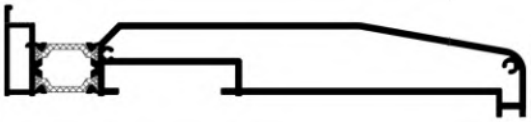


Track bearing with rollers – Qty 1 per door / fixed panel (loose in frame)

Track Frame Covers – As per door configuration (located in frame)

Optional Extras (Specified at time of order)

Cill – Loose



Trickle Vents – Fitted to Frame Head Add-on

Contents (cont)

Self-tapping screws – Qty 1 bag

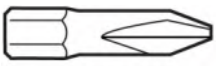
Installation Kit Contents (optional extra)

HSS Drill Bit 6.5 x 100mm – Qty 1

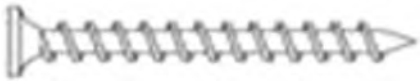
Masonry Drill 6.5 x 210 – Qty 1

¼ Hex Torx T30 Bit – Qty 1

¼ Hex Pozi no.2 Bit – Qty 1



90mm Direct Frame Fixing Screws – Qty 30



4 mm Allen Key – Qty 1

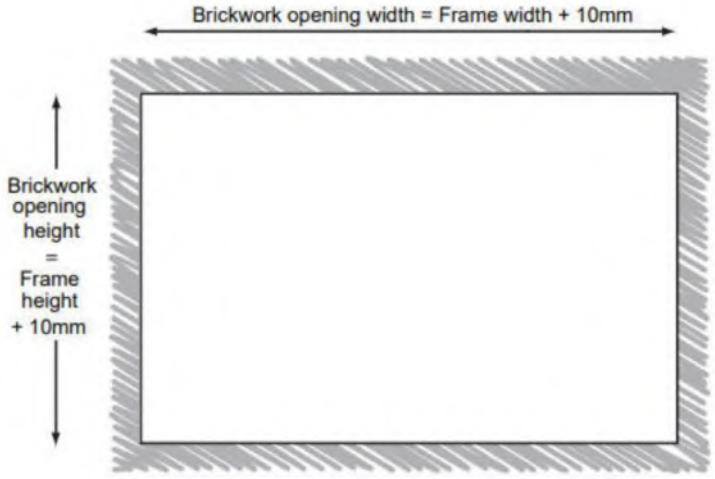
Silicone – Qty 1

Assorted Packers – Qty 1

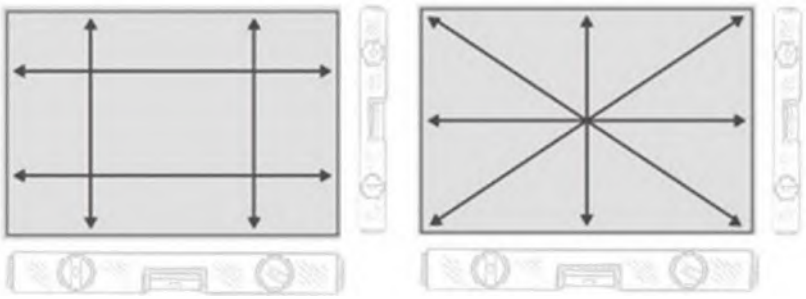
Important: The assembly and installation method as detailed in this manual is based on the purchase and use of the optional fitting kit. If you have not chosen to purchase a fitting kit, please ensure you use appropriate fixings suitable for external door and window installations.

Preparing the site

When preparing the site please prepare the brickwork opening to be 10mm more in height and width than the outside assembled frame size of the Inline sliding door frame.



It is essential that all 4 internal surfaces of the brickwork be levelled before installation. Please ensure that all dimensions are correct for installation before proceeding, as the outer frame must be installed square and level into the opening.



Check the aperture to make sure there is no loose plaster or brickwork, and that it is free of any debris or brick dust. Ensure that a solid, level base is present at the required dimensions and can provide packing points at 150- 250mm centres and fixing points at 600mm centres. Ensure floor levels do not obstruct door operation or impede drainage. Example sizes:

Outer Frame:	**Brickwork Opening:**
1790mm W x 2090mm H	1800mm W x 2100mm H
2090mm W x 2090mm H	2100mm W x 2100mm H
2390mm W x 2090mm H	2400mm W x 2100mm H
2690mm W x 2090mm H	2700mm W x 2100mm H
2990mm W x 2090mm H	3000mm W x 2100mm H
3590mm W x 2090mm H	3600mm W x 2100mm H
3990mm W x 2090mm H	4000mm W x 2100mm H
4490mm W x 2090mm H	4500mm W x 2100mm H
4990mm W x 2090mm H	5000mm W x 2100mm H
5990mm W x 2090mm H	6000mm W x 2100mm H

Preparing the site (Cont)

The brickwork opening is classed as a finished opening size, so it is important you have allowed for any additional plaster work, trims, architraves, etc.

Finishing around the frame is a personal preference and should be decided between yourself and the installer. Insulated cavity closer's may be required.

Check you have the correct / relevant dampproof course in place.

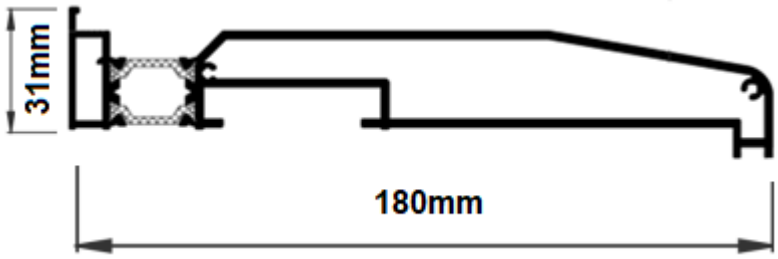
Important: Before commencing installation, check the original order paperwork / confirmation to familiarise yourself with the chosen door configuration.

Fitting the Drip Cill (Optional Extra)

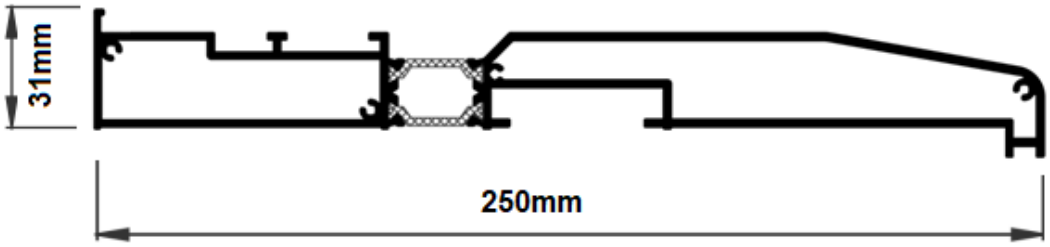
If you have not ordered a cill, take note of the below information and apply the same method when installing fully assembled frame / threshold into the opening.

Locate the cill. The cill ends caps should be pre-fitted. If you have ben supplied loose cill end caps, seal the caps on to both ends of the cill.

Double Track Cill (Standard 180mm)



Triple Track Cill (Standard 250mm)



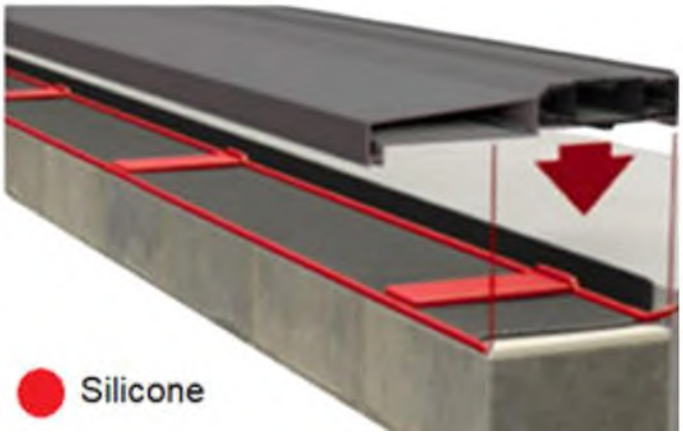
Temporarily lift the cill into the opening packing accordingly. Use a laser level and / or long spirit level, to ensure the cill is sitting perfectly level in the opening. The cill should be positioned so the frame jambs will sit a maximum of 5-20mm back from the face of the brickwork.

Important: The bottom tracks must be fully supported from front to back, and levelled without dips or rises, with the cill overhanging the brickwork for drainage. Ensure the cill is level and sufficiently packed to support the sliding door set along its full width.

Fitting the Drip Cill (Cont)

Remove the cill and create a bed of silicone or mortar for the cill to sit on. Silicone any packers in place. Lift the cill back into the opening ready for securing to the brick work.

If the surface is uneven then a mortar bed may be necessary. If a mortar bed is not required, then seal along the edges using silicone sealant.

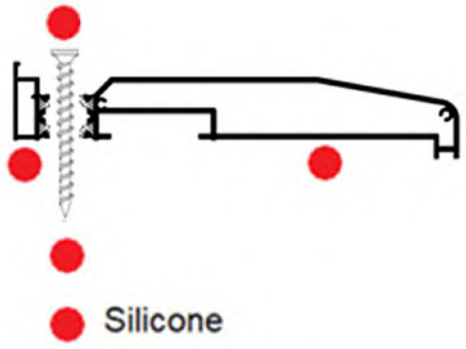


Use this same method for fitting the assembled frame / threshold with no cill.

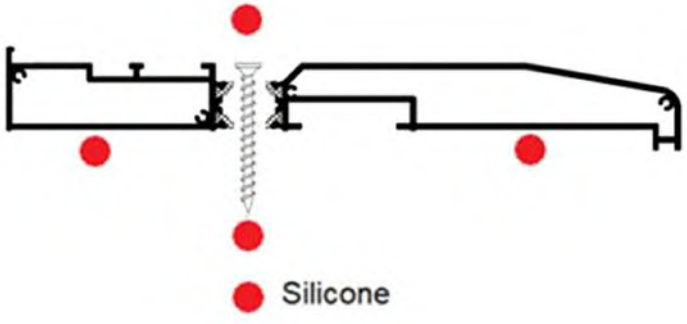
Once the cill position is level and fully supported, use a 6.5mm HSS drill to drill a hole at each end of the cill through the thermal break. Use a 6.5mm SDS masonry drill to drill through these holes into the masonry. Finally fix the cill in place using Qty 2 direct frame fixings.

Important: All fixings and drill holes must be silicone dipped. Do not block any of the drainage holes,

Double Track Cill



Triple Track Cill



Frame Head Add-on - Trickle Vents (Optional)

Skip this step if you have not ordered Trickle Vents.

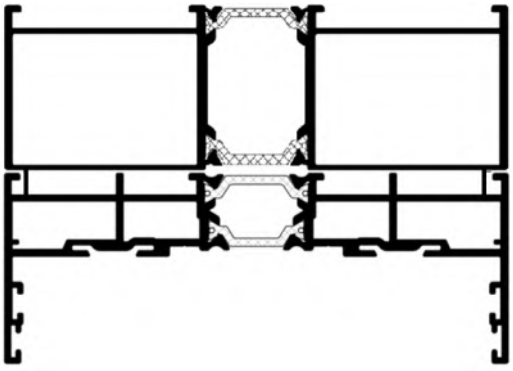
If you have chosen to add trickle ventilation to your sliding door, these are supplied in an aluminium add-on which sits on top of the frame head.

For broken down frames the frame head add-on will need removing to allow access to the corner Cleats.

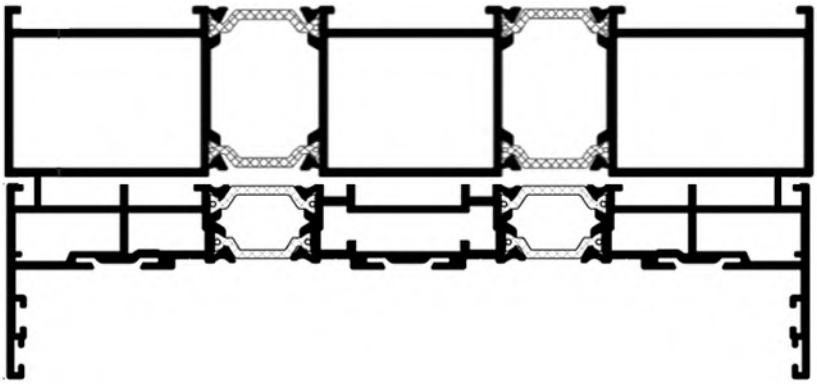
If the add-on has been supplied loose, it will require screwing to the frame head once you have followed the below steps 'Assembling the frame'. The trickle vents will be attached to the add-on and the ventilation holes pre-machined.

Ensure the add-on is joined to the frame head so the canopies of the trickle vents are on the external side of the frame.

Double Track Add-on and Frame Head Example



Triple Track Add-on and Frame Head Example



Using self-tapping screws and Pozi driver bit, attach the add-on to the frame head.

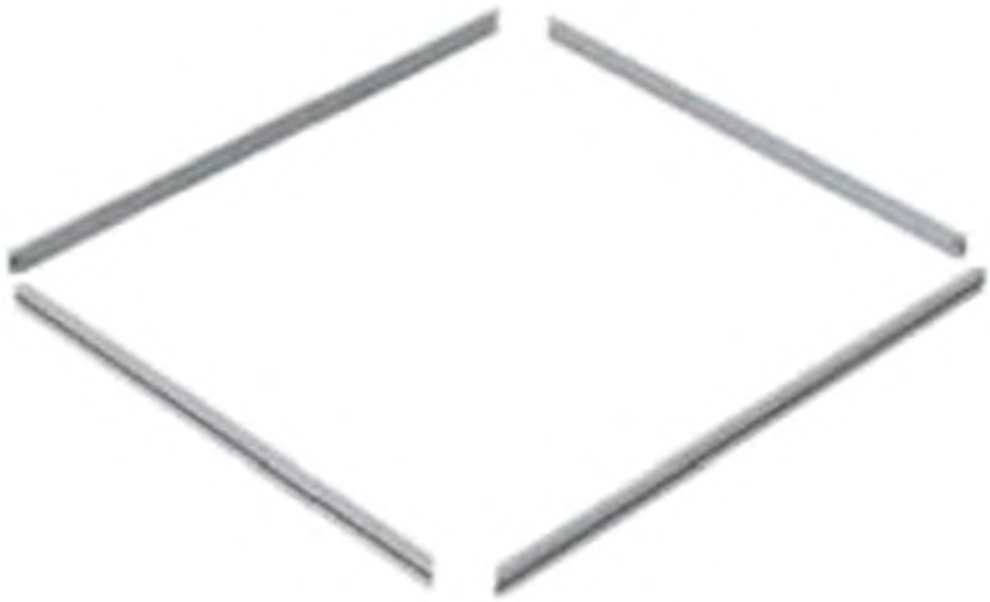
Please note that the fixings are to temporarily secure the add-on to the frame head until it is fully secured and fixed into the opening, using the direct frame fixings supplied.

Take note of the fixing locations to ensure they do not impede with the direct frame fixings when securing the frame into the opening.

Assembling the Frame (Supply Option 2 Only)

Skip this section if you have ordered Supply Option 1 (Built up doors and frame).

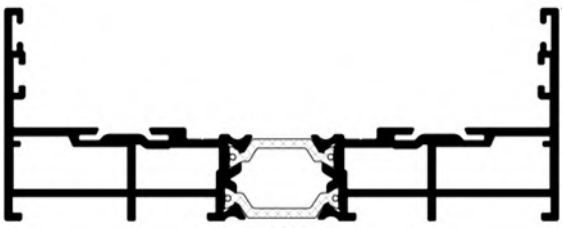
Lay all 4 pcs of the frame on top of cardboard or similar protective covering to prevent damage to the aluminium.



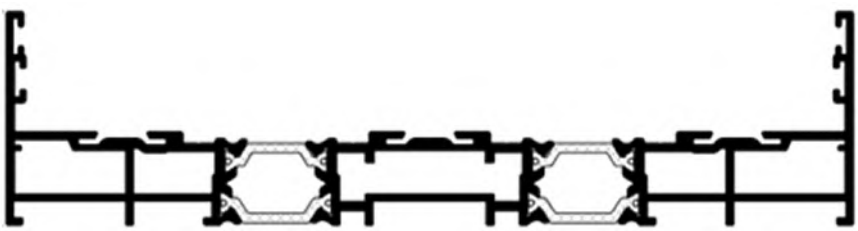
Identify the frame head, left and right-hand jambs and bottom threshold. Take care to ensure you've correctly assembled the frame.

Please note, the bottom track will have drainage slots located in them. For door sets without a cill, they will face drain. For door sets with a cill, they will downwards drain into the cill.

Double Track Frame

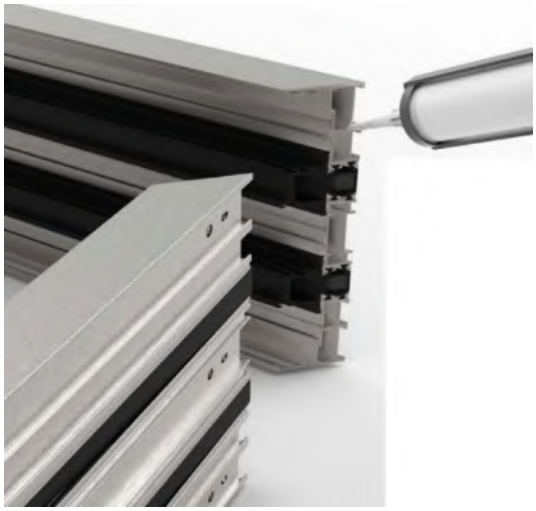


Triple Track Frame



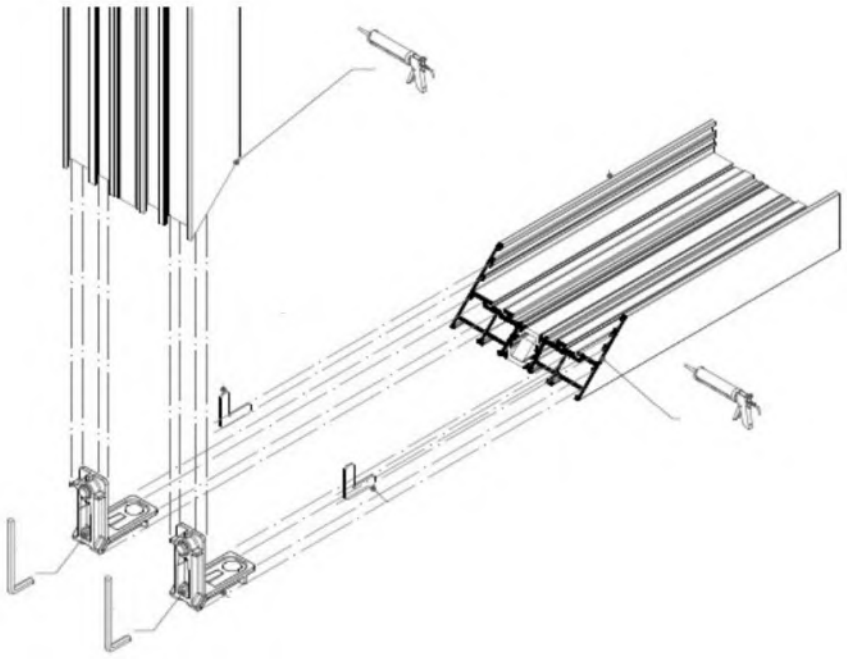
Assembling the Frame (Supply Option 2 Only- Cont)

Starting with the bottom threshold, run a continuous bead of silicone sealant around the joint between the cut frame and the end cap moulding, not blocking the drainage holes. It is important to seal the bottom profile at both ends to prevent water from draining into the cleats.



Double Track Example

2 Cleats and 2 Chevrons per corner



Assembling the Frame (Supply Option 2 Only- Cont)

Triple Track Frame

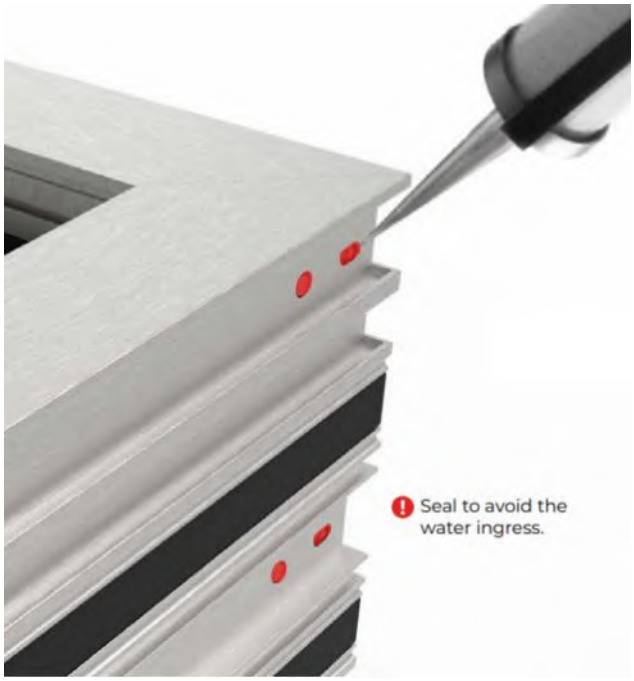
3 Cleats and 2 Chevrons per corner.

The Chevrons will form a neat corner and correct alignment when tightening the cleats.

Important: Silicone should be applied to all touching faces and edges.

Finally, in stages tighten with a 4mm Allen key.

Important: Take care to ensure the drainage channels remain clear.

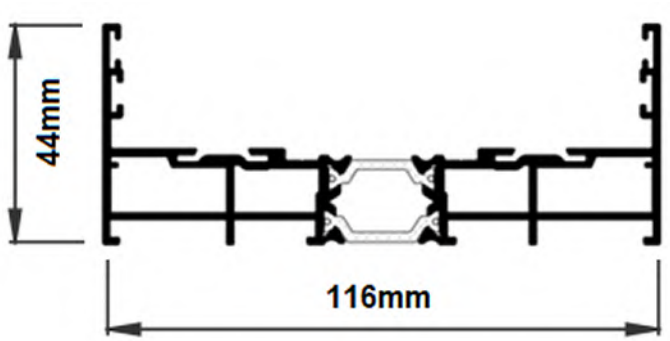


Installing the assembled frame

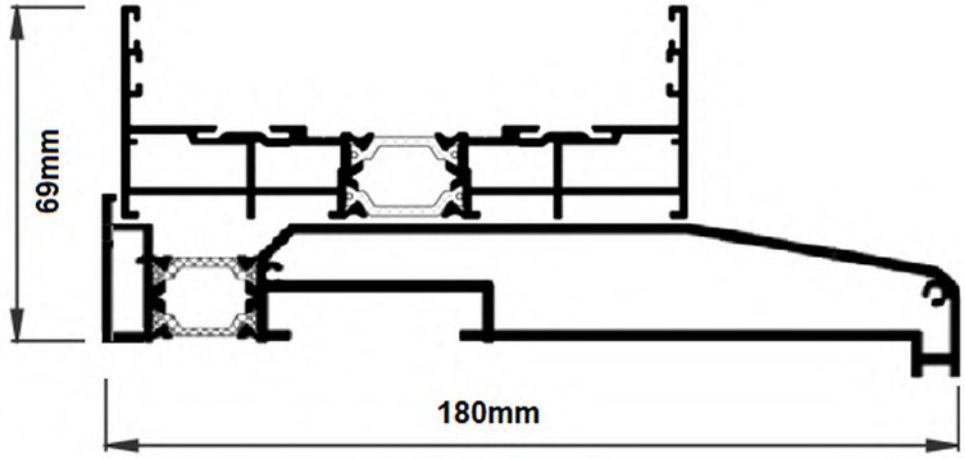
If you have ordered a cill and / or trickle vents, ensure you have correctly installed the cill into the opening and fitted any frame head-addons to the outer frame before installing the frame into the opening.

Please refer to the below for diagrams detailing the dimensions of the frame and cill sections, when considering finished floor heights.

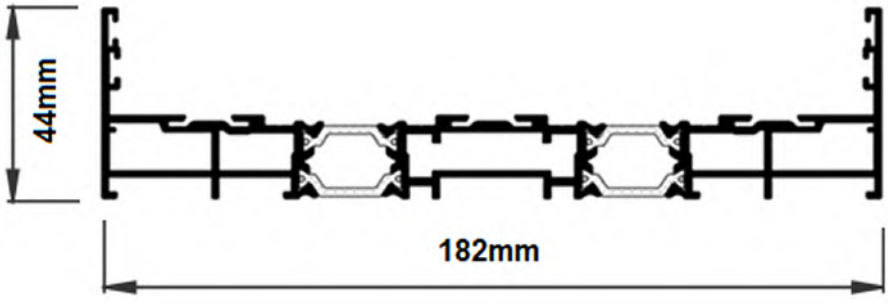
Double Track Slider - Threshold Only



Double Track Slider – Threshold with optional Drip Cill

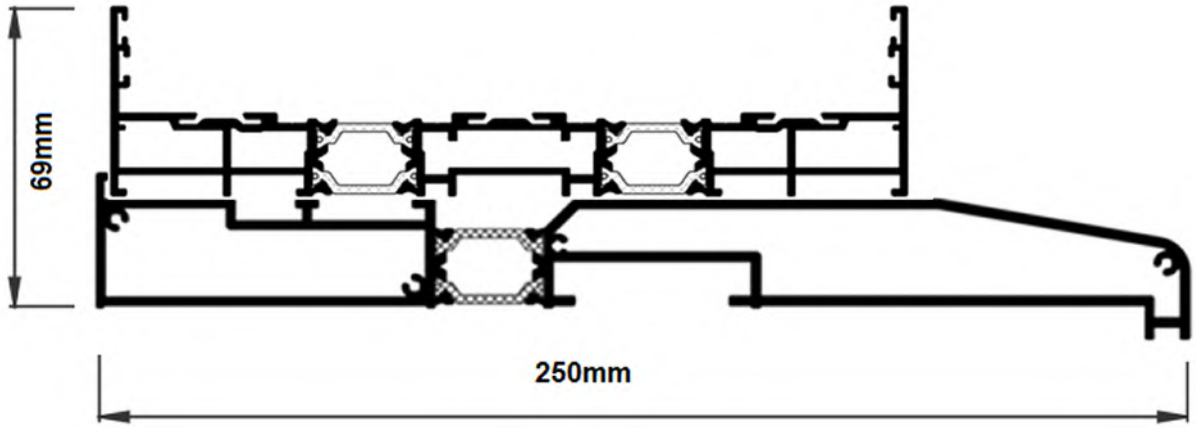


Triple Track Slider – Threshold Only



Installing the assembled frame (Cont)

Triple Track Slider – Threshold with optional Drip Cill



Before lifting the frame into the opening do one final check to ensure that the bottom of the brick work opening is completely level and packed accordingly as per the previous section 'Fitting the Drip Cill'. Clear the aperture of any dirt / debris, ensuring you have a clean level surface to fix to.

Important: During the installation, repeatedly check the alignment and squareness of the outer frame. Measure the distance across diagonally to check squareness. Without these checks the installation may be unsatisfactory, causing damage to the doors and / or incorrect operation.

Ensure you have the correct structural damp proof course in place.

Temporarily lift the frame into the opening.

Installing the assembled frame (Cont)

The outer frame should be positioned in the brickwork opening with the jambs to the outer edge, up to a maximum 5mm - 20mm back from the face of the brickwork.

Most importantly, the frame jambs should have a secure fixing, the bottom track should be fully supported from front to back, levelled without dips or rises, with the cill (if selected) overhanging the brickwork.

If you have already fitted a drip cill into the bottom of the brickwork opening, take care when lifting the outer frame on top not to damage the drip cill. You should have already levelled and fully supported your drip cill, meaning the threshold should automatically sit level on top. Silicone seal the cill at the front and back, and both ends of the cill before sitting the threshold on top.

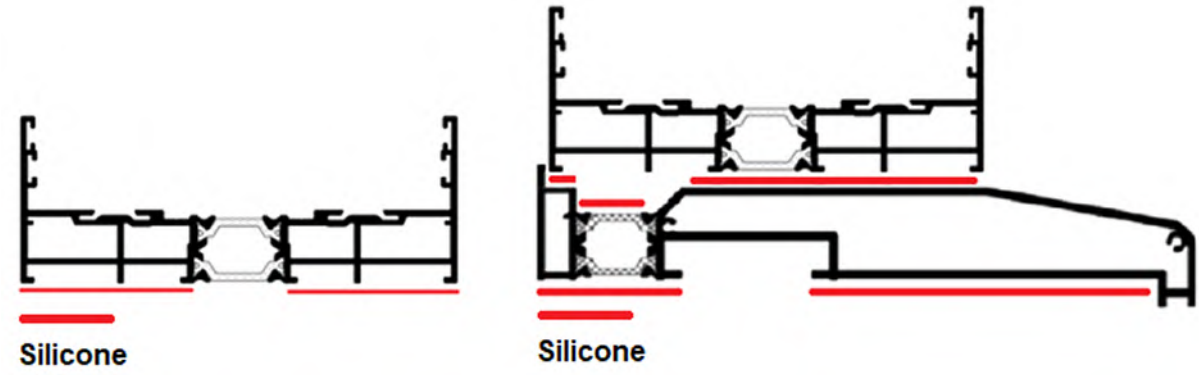
Where no drip cill is being used, level the frame using packers, starting at the bottom and insert the first packer DIRECTLY UNDER THE FRAME JAMB starting at whichever side of the frame looks highest. Please refer to the previous section 'Fitting the Drip Cill' for levelling and sealing the threshold and 'Levelling and silicone example' below.

Remove the frame and create a bed of silicone or mortar for the frame to sit on the lift the frame into the opening, ready for securing to the brick work. Ensure the frame is level and sufficiently packed to support the sliding door set along its full width and depth, silicone any packers in place. If the surface is uneven then a mortar bed may be necessary.

Levelling and silicone examples:

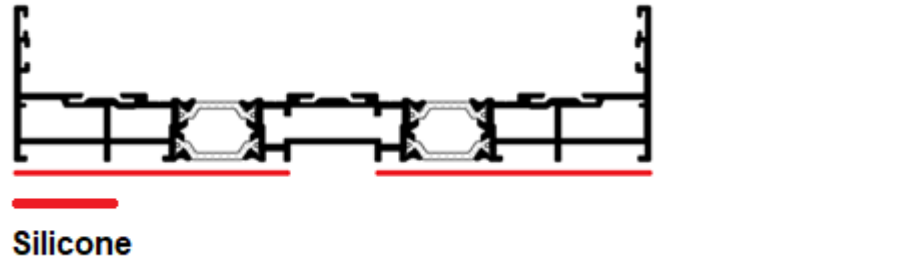
IMPORTANT: Do not block any of the track and cill drainage holes. Silicone dip all fixings used in the bottom track and cill.

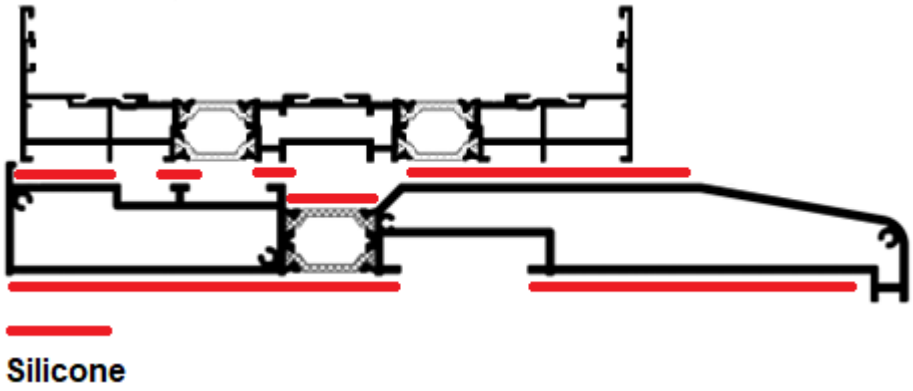
Double Track

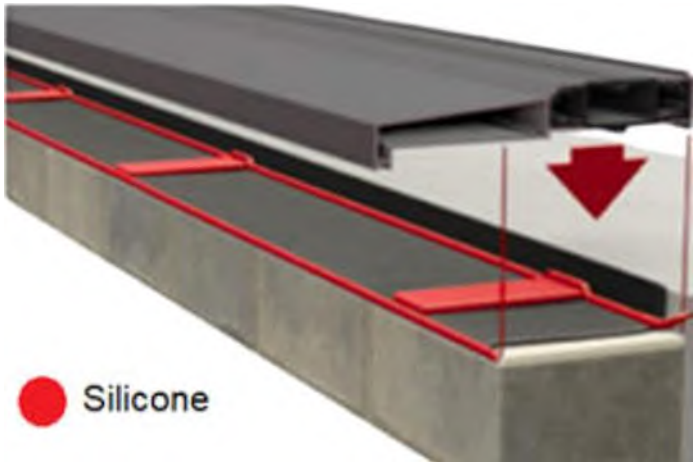


Installing the assembled frame (Cont)

Triple Track



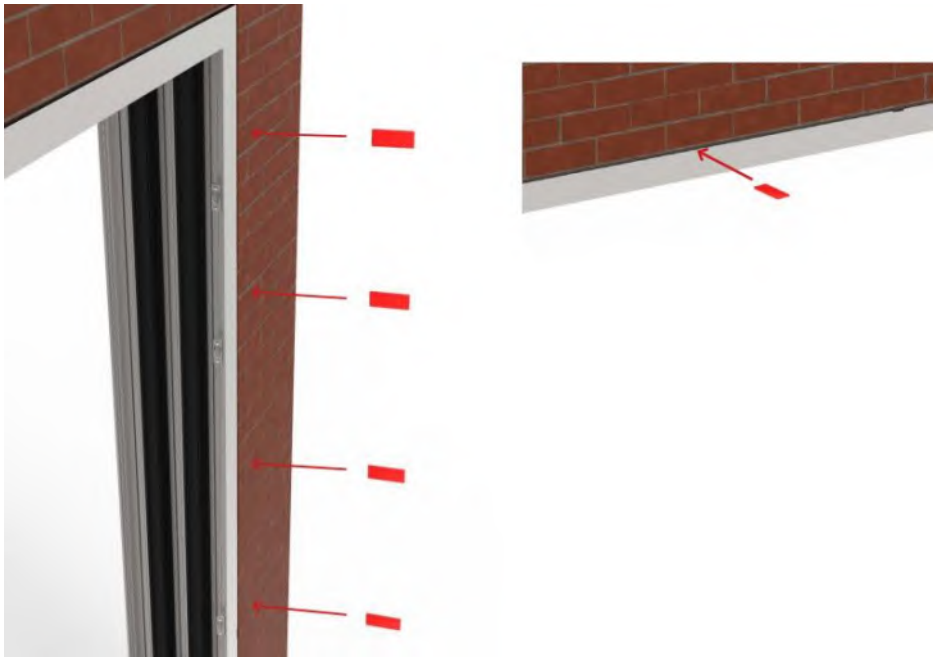




Lift the frame back into the opening.

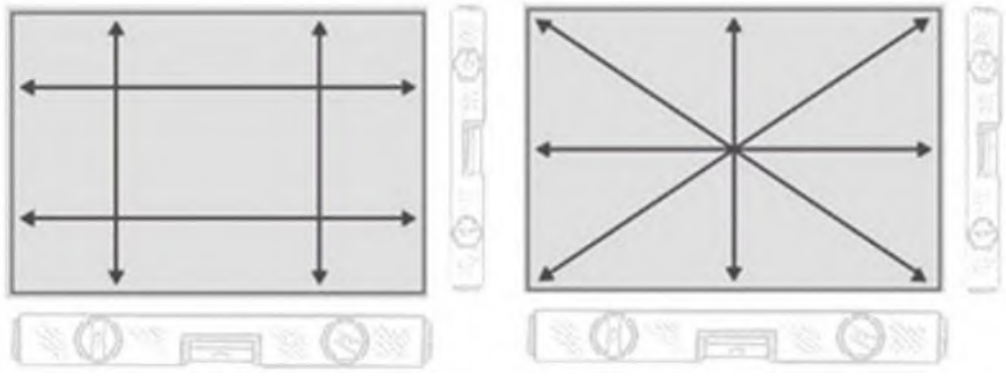
Installing the assembled frame (Cont)

Continue to pack all around the frame. Ensure the top and bottom tracks do not bow in any direction, the internal frame dimensions are consistent, and the structural opening does not transfer any load onto the frame.



Pack out across the top track. Ensure the track does not bow in any direction and that the building does not transfer any load onto the frame.

Continually check the frame using a laser level and / or long spirit level as you go. It is very important the frame is installed into the brickwork opening completely upright, square and level in every plane.



Measure diagonally across the frame and ensure the measurements are the same.

Installing the assembled frame (Cont)

The door set uses a bottom rolling system, so it is vitally important the bottom frame section (and drip cill if selected) is level and adequately supported from front to back, without dips or rises, all the way along using packers as necessary.

Do not proceed with the fixing of the frame unless you are 100% confident the frame is in upright, plumb, square and level on every plane.

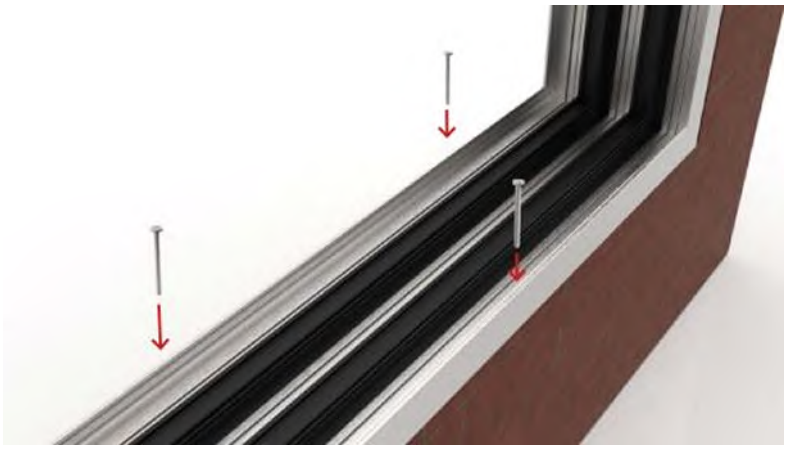
Remove any pre-fitted track covers to allow access to the fixing points and place to one side.

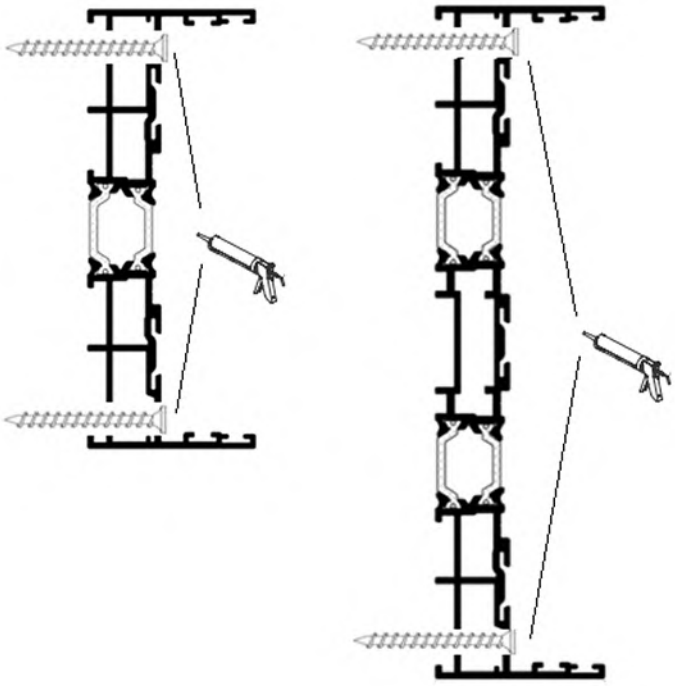
Using a 6.5 x 100mm SDS drill bit, pilot holes all the way around the frame and then use a 6.5 x 210mm Masonry drill bit to drill holes into the brickwork. Pilot holes should be 150mm – 200mm from each end, and no more than 600mm between centres.

Secure the frame in place using 90mm direct frame fixings and TX30 drill bit.

Where possible, fixing points should be on both sides of the frame, in a zig-zag pattern. It is not possible to pre-drill the fixing points as the positions will vary depending on the aperture the frame is being fixed into.

Installing the assembled frame (Cont)





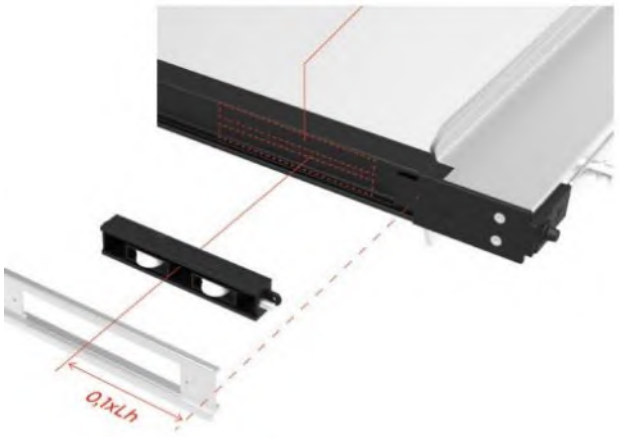
Important: All fixings in the bottom threshold must be silicone dipped.

Ensure the ends of the profiles are fully sealed.

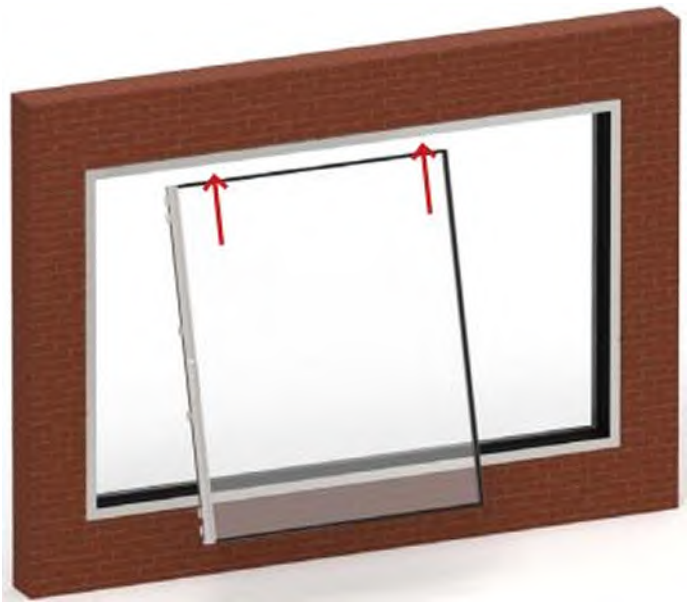
Installing the doors and fixed panels

Locate the bearings and rollers and place them in the bottom tracks, directly where you will insert the first door There should be 1 plate bearing per door.

Please note, for fixed panels only, the bearing plate will be fitted with an additional securing plate. Ensure you have identified the correct parts before fitting the doors / fixed panels.



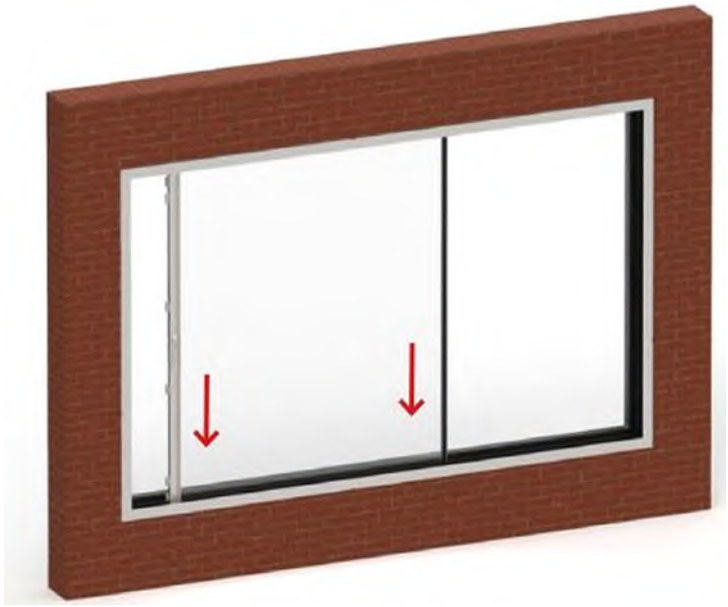
Locate the first door and insert into the top track channel. You may find it easier to lift the door in from the centre of the frame and then slide across.



Swing the bottom of the door above the running gear.

Installing the doors and fixed panels (Cont)

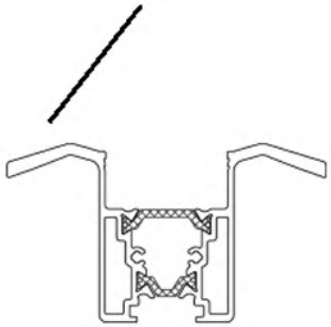
Place the door directly on to the bearings profile, ensuring it sits directly within the profile of the door. Do not operate the door until the bearing and rollers are correctly located.



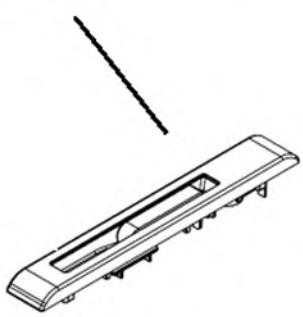
Now check the door operation and locking.

Important: When operating the door, lift and lower the flush locking lever to engage and disengage the locks. Do not slide, pull or push the door using the locking lever, as this may damage it and invalidate your warranty. Use the long-integrated door profile handle to operate the doors. See troubleshooting page for operational adjustment.

Door profile handle



Flush locking lever



Installing the doors and fixed panels (Cont)

Once you are happy the door is operating correctly, fix anti-lift blocks above each sash corner where the sash will locate is in the closed position. Slide the door(s) as far over to allow access to both points and fix approx. 100mm from each edge of where the door will sit. Fix into the top track and slide the door back into position.

Repeat the process for any remaining doors / including fixed panels.

Fixed panels

Once you have located the fixed panel onto the bottom bearings and rollers, a securing bracket will be pre-fitted to the bottom bearing plate and this will need screwing into the pre-drill holes in the bottom track, with the self-tapping screws provided.

Installing the frame / track covers

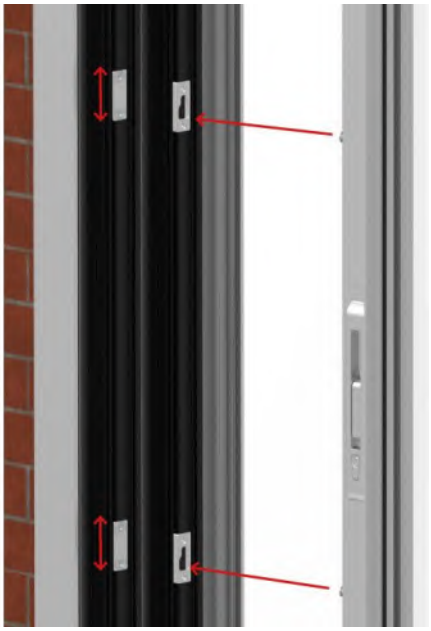
Depending on your door configuration you may have been supplied with side and / or top and bottom track covers. For pre-built frames they will have been pre-fitted and required removing when installing the frame. For broken down frames, they would have been supplied loose and located in your frame packs. Install the covers as per the examples below.

Trouble shooting

Before carrying out any adjustments it is vitally important that you have checked the frame levels to ensure the are installed plumb, square and level on every plane. And that there are no dips or rises all the way along the full length of the frame head and cill. They must be checked using a recently calibrated laser level and long spirit level.

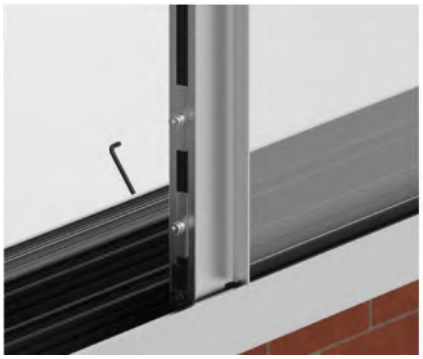
If you are experiencing any locking or operational issues the lock keeps and lock mechanism locking alignment points can be adjusted and the bottom rollers can be adjusted in height.

Lock Keep Adjustment



If the locks are catching in the keeps and / or not locking smoothly, working from bottom to top,adjust the keep positions if necessary. Keeps can be packed out using packers supplied. Adjust keeps until the locks engage correctly.

Lock Adjustment (Allen key)



Roller Adjustment (doors up to 150kg only)– Allen Key

Finishing around the frame

Once you are satisfied with the correct installation of the frame and door operation, break off any protruding packers where necessary.

Remove any remaining temporary protective tape from all profiles. Clean down the aluminium and glass with warm, soapy water.

The final finish you wish to achieve comes down to personal preference and is to be discussed with your installer before commencing. Below is a general guide to sealing around the outer frame.

Expanding foam can be used to fill any large apertures around the frame. Be careful not to overfill. Trim or silicone around outer frame and seal below the external cill if applicable. Ensure the frame is free from dust and debris before applying to ensure an adequate barrier is created to prevent any water or air leakage.

Seal under and around the outside of the cill, ensuring you do not block any of the drain holes.

Repeat the frame sealing on the inside using decorators caulk and/or trims. Take care to ensure any drainage holes are kept clear of debris and sealant.

Re- check the door for correct function and instruct the homeowner on their correct operation.