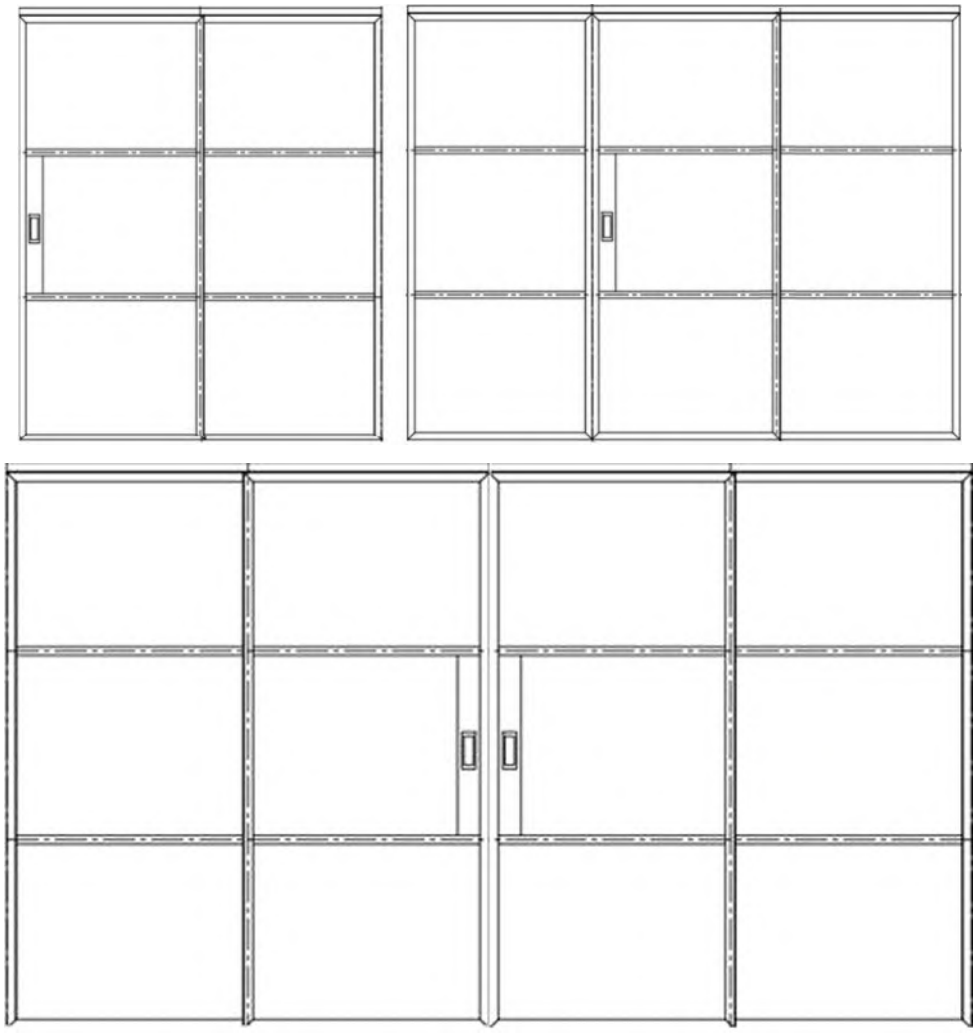
ALUSPACE

INTERNAL SLIDING DOOR

Assembly Instructions



About your AluSpace internal sliding door

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.

Important Information

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

We recommend that a competent trades person installs this product.

Handling and Storage

Take care when unloading the products as they may have shifted during transportation.

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.

Loose 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.

Installation

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.

Before commencing the installation, carry out a final check to make sure the aperture is the correct height and width to accommodate the overall size and that where required, sufficient space is available above and next to the installed door(s) and header.

The brickwork opening should be approximately 10mm greater in both height and width than the overall size ordered if installing within / under the reveal. For face fix installations, ensure there is sufficient support for the header to fix into, and for the door(s) to slide back the required distance.

The outer track header and any fixed panels needs to be securely fixed into the opening perfectly square and level on all planes. The aluminium sliding doors are top hung, the weight of the doors is supported via the sliding hardware and track. The top track and header must be sufficiently supported to ensure there are no dips or rises along the full length of the tracks. When fixing, ensure there is no bowing.

The doors are designed to be installed based on a finished floor level.

Important: If you intend on installing or have already installed under floor heating, please ensure that you have the heating pipe or mat location plan, as any bottom guides and fixed panels require fixing down into the floor. If the current fixings are not suitable due to their length, please use an alternative fixing (not supplied) to ensure the bottom guide and fixed panels(s) are securely fixed down.

About your AluSpace internal sliding door (Cont)

All glass will be supplied loose and will require installation by a competent trades person experience with installing glass into doors and windows.

Care and Maintenance

Aluminium door and frame components

All our AluSpace sliding doors are supplied fully powder coated providing a high quality and durable finish, unless otherwise specified.

Protective tape and masking tape should not remain on the surfaces for an extended period of time. They will begin to use to the surface making the adhesive residue difficult to remove. Failure to remove tape may permanently damage the frame finish.

To maintain the powder-coated finish, wash regularly with soapy water and then dry off with a soft lint-free cloth. 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.

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.

Single glazed units

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.

The glass must be inspected before being fitted. We cannot accept any claims for scratched or damaged glass after 72 hours following delivery, and / or after installation has commenced.

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

Toughened, glass is acceptable if bubbles or blisters, fine scratched no more than 2.5cm long and / or minute particles or neither obtrusive nor bunched. The glass used is a processed glass therefore certain blemishes are unavoidable.

For carrying out a glass inspection, stand at least 3 metres away from the glazing, view at a 90-degree angle and look directly through the glass. 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.

Glass must be regularly maintained and cleaned. 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.

Hardware Components

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 installed in a high traffic area, or every six months for less frequently used doors, 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 track(s) 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.

Introduction to quick assembly

The AluSpace sliding doors and fixed panels will requires securing perfectly plumb, square and level into the opening. For sliding doors with more than one fixed section, couplers will be supplied pre-fitted for joining the sections together.

Secure the box header perfectly level. Fix the first section into the opening securing on 3 sides, any additional sections can then be joined together and secured at the tops and bottoms. Locate the sliding door(s) rollers into the top track and temporary secure the track perfectly level into the opening. Level up the door and fit the bottom guide. Fit the optional sliding door wall channel. Once the section(s) and door(s) are secured perfectly, square, level and plumb into the opening, the glass units can then be fitted.

Contents

Recess fix – (Sliding Doors with fixed panels)

Door(s)
Fixed Panel(s)
Qty 3 - Glass per door / fixed panel
Qty 1 - Wall channel (single sliding door installation only)
Qty 1 - Box header Section
Qty 1 - Top track

Additional hardware

Qty 1 – Bottom Guide (per sliding door)

Qty 1 - 12mm bung (box header screw hole cover)
Qty 2 - Sliding door stops per sliding door
Qty 6 - Sliding door stops per double sliding door

Qty 1 - Roll of retaining gasket (per door)
Qty 1 - Roll of wedge gasket (per door)
Qty 1 - Bag of glazing packers
Qty 1 – Bag of 25mm self-tapping screws

Installation kit

Qty 20 - 7.5 x 70mm TX Frame Fixings
Qty 1 - TX30 driver bit
Qty 1 - 6.5 x 101mm HSS drill bit
Qty 1 - 6.5 x 150mm Masonry drill bit
Qty 1 - PZ2 Driver Bit
Qty 1 - 3mm drill bit

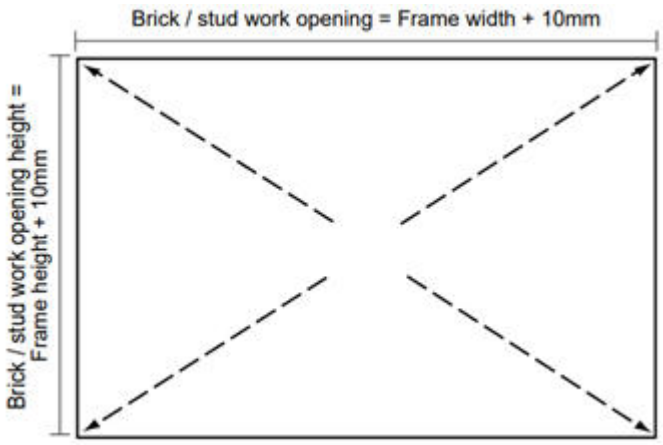
Contents

Please Note: These instructions are based on the assumption that you will be using the fixings provided. However, the type of fixings required may vary depending on the aperture. If the supplied fixings are not suitable for your installation, please use other high-quality, appropriate fixings to securely install the doors into the opening.

Where possible, most parts will be pre-fitted and pre-machined. However, due to variations in aperture types and levels, some components may require on-site drilling / fitting to ensure precise installation and optimal door operation. These tasks should be carried out by experienced door fitters or competent DIYers with the appropriate tools and skills.

Preparing the site

When preparing the site, please prepare the brickwork / stud wall opening to be 10mm more in height and in width than the overall door set size.



It is essential that all the internal surfaces of the brick / stud work are level before installation. Please ensure that all dimensions are correct for installation before proceeding, as the doors must be installed square and level into the opening.

The brick / stud wall opening is classed as a finished opening size, so it is important you have allowed for any additional plaster works or architraves.

Finishing around the frame is a personal preference and should be decided between yourself and the installer.

Important: The door set is designed to be installed on top of a finished floor

Installing the sliding doors

All doors and fixed panels will be supplied unglazed to allow access to the fixing points.

Important: In order for the doors to operate correctly, the top track must be installed level and the bottom guide must be perfectly in line with the top. Any fixed doors / panels must be installed square, plumb and level on all planes.

Continuously check the levels using a laser level and / or long spirit level during the complete installation process.

Do not over tighten any of the header, track or supporting screws.

The top track will require temporarily securing in place to allow for the correct alignment and installation of the bottom pin / guide. Do not fully secure the track into the opening until you are confident everything is correctly aligned.

Fixing the top track

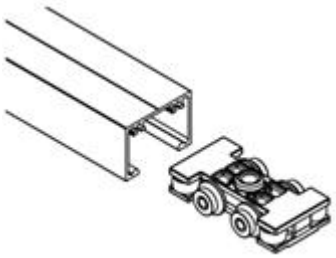
It is recommended that 2 people position the top track and box section to ensure that they remain level during this process and to support the track and sliding door.

Important: This is just a temporary fix until the bottom guide / pin has been correctly located, the track and door will need to be removed before final fixing.

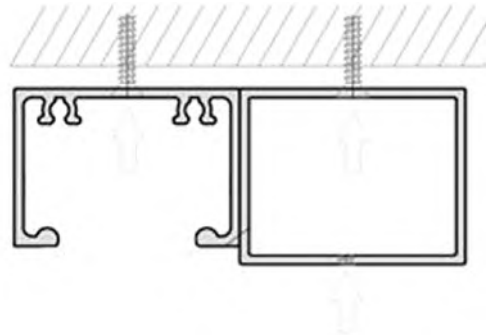
Offer the top track up to the recess and mark the fixing points accordingly. It is recommended that fixings are installed approximately 50mm from each edge and at approximately 500mm centres. Check the levels before drilling the track. Use a 6.5mm HSS bit to drill the track and a 6.5mm SDS bit for drilling into the aperture.

The top roller(s) will already be pre-fitted to the sliding door(s).

Slide the roller(s) / door(s) into the top track, use air wedges and / or packers to support the weight of the doors and position the top track into the recess. Level the top track using packers if required.

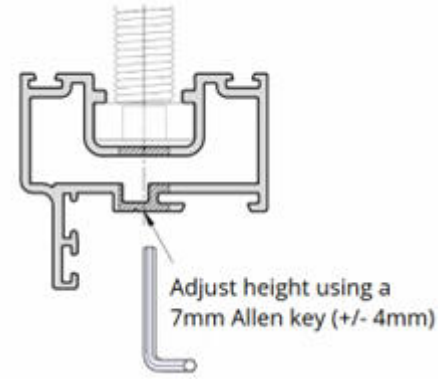


Temporarily Secure in place using two 7.5mm direct frame fixings. You will need to move the doors along the track to allow access to the fixing points. Ensure the fixings will not interfere with the operation of the door, countersink if required.



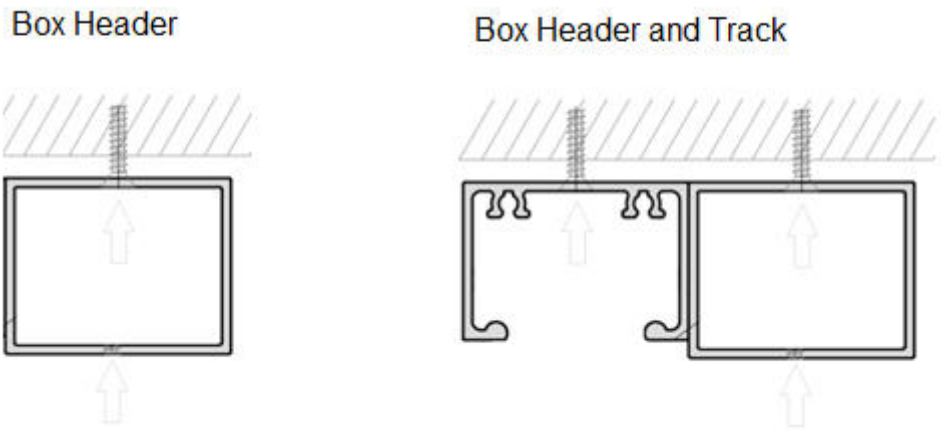
Before installing the bottom guide and glazing the doors check they are operating correctly. Take extra care when operating the door(s) without the bottom guide fitted.

An access slot will be located inside the top of the sliding door. The door / roller can be adjusted using a 7mm Allen Key (not provided). Please note: The roller cannot be accessed once the glass has been installed.

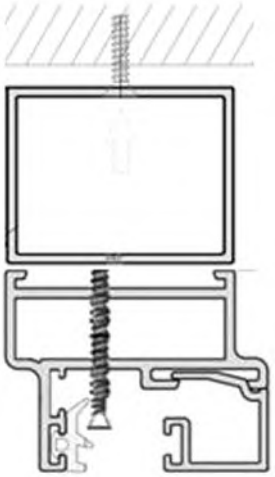


Once you are happy with the operation, proceed with the fitting of the bottom guide(s).

Top track and box header section installation (Cont)



Offer the panel back up to the header and re-check the levels and then secure in place using the self-tapping screws provided. Ensure the fixed panel is sat plumb, square and level on all planes. Use packers to level up where required.



Once you are happy the first panel is secured at the top and level, drill pilot holes in the sides, approximately 50-100mm from the top and bottom and at a 500mm centres. Drill two fixing points in the bottom of the panel.

Fixing points and types will vary depending on the construction of the opening. If needed screw into a good hardwood timber batten secured into the cavity. Depending on the aperture's construction, alternative fixings may be required.

Important: When drilling and fixing the into the opening, take extra care not to bend the aluminium frame.

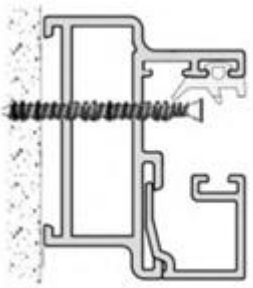
Before drilling the bottom fixing points, please ensure that there are no under floor heating pipes or mats in the intended location. An alternative fixing (not supplied) may be required.

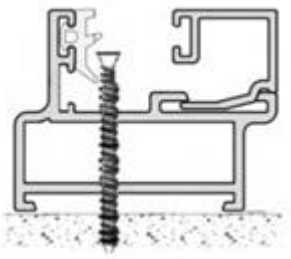
Use direct frame fixings as follows:

6.5mm HSS drill supplied to drill the holes in the fixed panel

6.5mm SDS masonry drill supplied to drill into the brickwork

T30 bit to screw in the 70mm direct frame fixings.

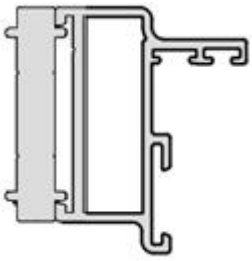




Joining the sections (for door sets with sidelights)

It is recommended that quick grip clamps are used during this process.

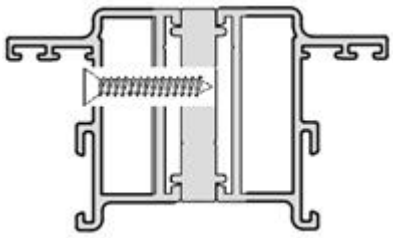
The securing couplers will be fitted pre-fitted and require connecting to the joining section(s)



For double and triple fixed panels, the coupler(s) will be fitted to section 2. For a quadruple screen, the couplers will be fitted to sections 2 and sections 3. Do not fit 2 couplers together or fit a coupler to the aperture, the couplers are designed to connect 2 frame sections together.

Lift the following section into the opening and secure in place with packers.

Fix through the side frame of the screen into the coupler using the self-tapping screws and PZ2 bit provided.



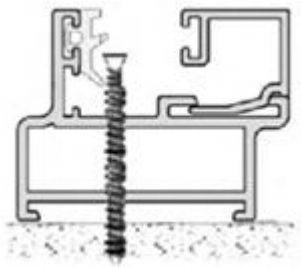
Secure the section(s) using a single direct frame fixing, at the bottom, using:-

6.5mm HSS drill supplied to drill the holes in the frame.

6.5mm SDS masonry drill supplied to drill into the brickwork.

T30 bit to screw in the 70mm direct frame fixings.

Repeat the process for any additional sections.



Fixing the top track

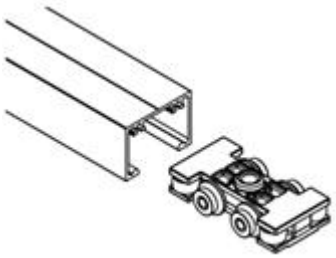
It is recommended that 2 people position the top track and box section to ensure that they remain level during this process and to support the track and sliding door.

Important: This is just a temporary fix until the bottom guide / pin has been correctly located, the track and door will need to be removed before final fixing.

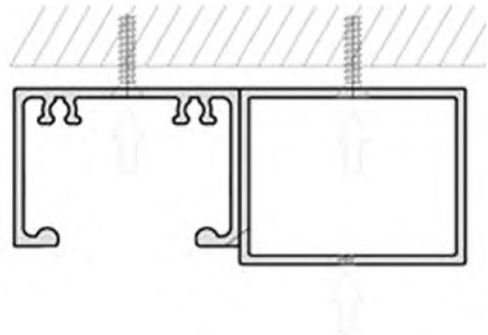
Offer the top track up to the recess and mark the fixing points accordingly. It is recommended that fixings are installed approximately 50mm from each edge and at approximately 500mm centres. Check the levels before drilling the track. Use a 6.5mm HSS bit to drill the track and a 6.5mm SDS bit for drilling into the aperture.

The top roller(s) will already be pre-fitted to the sliding door(s).

Slide the roller(s) / door(s) into the top track, use air wedges and / or packers to support the weight of the doors and position the top track into the recess. Level the top track using packers if required.

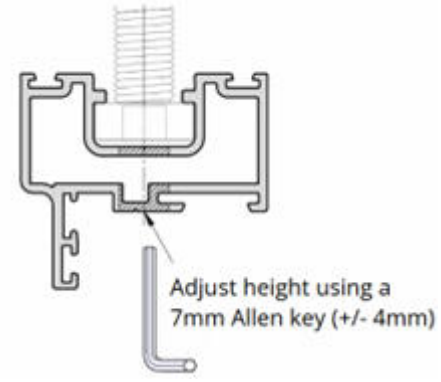


Temporarily Secure in place using two 7.5mm direct frame fixings. You will need to move the doors along the track to allow access to the fixing points. Ensure the fixings will not interfere with the operation of the door, countersink if required.



Before installing the bottom guide and glazing the doors check they are operating correctly. Take extra care when operating the door(s) without the bottom guide fitted.

An access slot will be located inside the top of the sliding door. The door / roller can be adjusted using a 7mm Allen Key (not provided). Please note: The roller cannot be accessed once the glass has been installed.



Once you are happy with the operation, proceed with the fitting of the bottom guide(s).

Installing the bottom guide

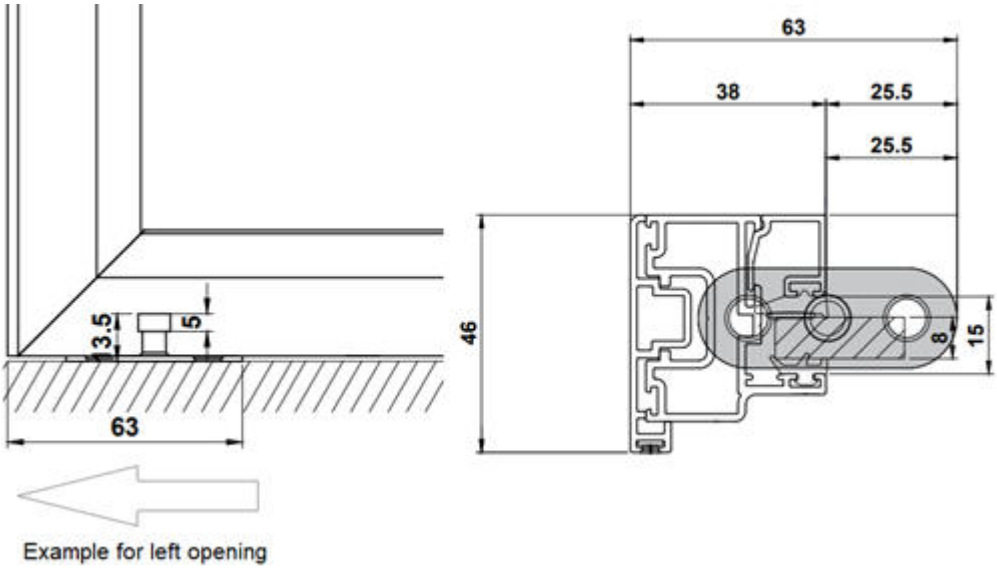
Important: The bottom guide must be installed perfectly in line and level with the top guide. Use a laser level / and or long spirit level for checking the top and bottom alignment before fully fixing to the floor.

Locate the sliding door bottom guide(s) (qty 1 per sliding door)

Fit the bottom guide(s) to the floor as per the below diagrams.

When the door is in the closed position mark, 63mm from the back edge of the door to the end of where the bottom guide will be fitted. The 63mm is taken from the back edge of the door, not the access / handle side. This measurement can be adjusted to suit. Use tape to mark the floor if required.

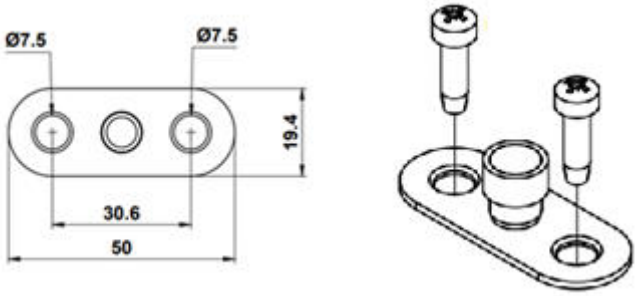
Use the front-to-back measurement of the door to align the pin. Ensure there is an even vertical gap between the door and the fixed panel.



Slide the door back and test the bottom guide location, ensure that the door will pass over the guide in that position.

Once you are happy with the guide location, remove the temporary fixed track and door. Locate the bottom guide / in into the marked-out locations. Offer the track and door back up to the opening and re-check the alignment and operation before fully fixing the bottom pin / guide.

Use an appropriate drill bit to drill two pilot holes in the floor and fix accordingly. Screw plugs may be required (not provided). Self-tapping screws have been provided for timber floors. Alternative fixings may be required depending on the type of flooring.



Installing the bottom guide (Cont)

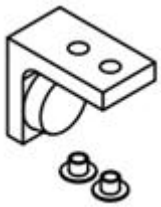
The door can now be lifted onto the bottom guide / pin and the top track and door fixed into the opening. Ensure the top track is sitting perfectly level and in line with the box header before fully securing into the opening using the previously drilled fixing points, and direct frame fixings. Do not over tighten the fixings and countersink if required.

Do one final check to make sure the sliding door is operating smoothly.

Fitting the end doorstops

Once you are completely happy with the operation, locate the doorstops (qty 2 per sliding door).

For sliding doors with fixed panels (recess fit), they should be face fitted to the fixed panel at the top and bottom.



Make sure the top and bottom stops are perfectly in line with each other.

Positioning the Doorstops:

The position of the doorstops must be carefully considered before installation.

Open the sliding door to the desired stopping point.

Check the handle location in relation to the fixed sidelight panel - ensure it is easily accessible and not obstructed.

Fitting the end doorstops (Cont)

Once confirmed, use the door stop as a template to mark the fixing points on the top and bottom face of the sidelight.

Top Doorstop

Bottom Doorstop

Fixing the Doorstops:

Drill two pilot holes using a 3mm drill bit into the face of the sidelight at both the top and bottom positions.

Secure the stops using the self-tapping screws.

Ensure each stop is firmly fixed and correctly aligned to avoid interference with door movement.

Fitting the central doorstops (Double opening sliders only)

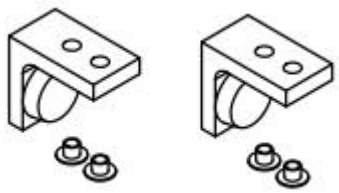
Please skip this step if you have ordered a single opening door set.

Once the doors, tracks, and any sidelights have been installed perfectly plumb, square, and level on all planes, you can proceed with fitting the central top track door stops. You will have received two door stops designed for installation into the top track.

The doorstops should be positioned to prevent the doors from closing past the central position.

Locate the Components:

Find the two top track door stops and the self-tapping screws provided.

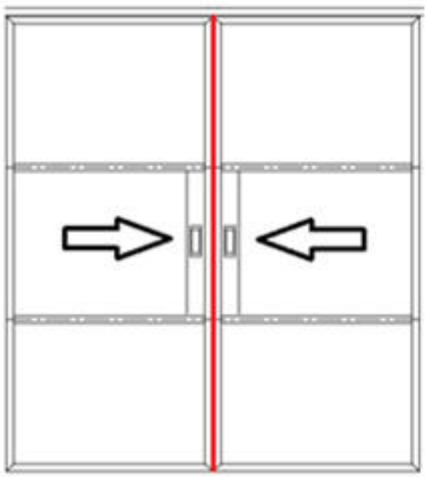


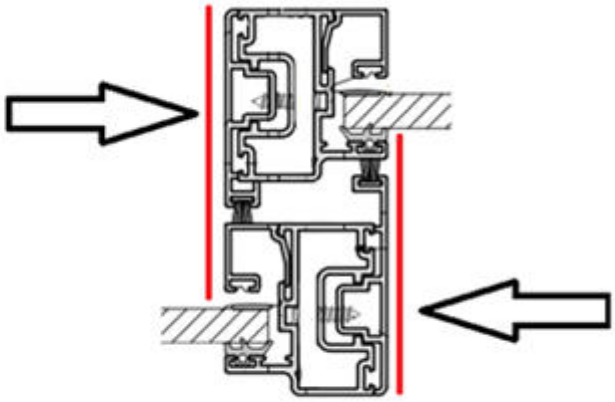
Fitting the central doorstops (Cont)

Mark the Stop Position:

Carefully close both sliding doors so they meet in the centre.

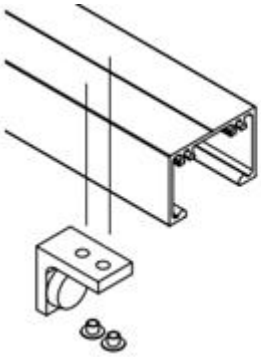
When the doors meet, the back edge of each sliding door stile should typically align / overlap with the end of the adjacent sidelight stile.

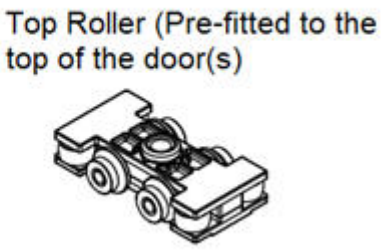




Using low-tack masking tape, mark on the top track where the doors meet.

Identify where the top roller will contact the door stop (this is typically around 140mm from the closing edge of the door).





Measure for Accuracy:

Measure the distance from the edge of the door to the contact point of the top roller.

Re-close the door to confirm the stop will be positioned correctly.

Position the Doorstop:

Place the door stop inside the top track with the rubber section facing the direction of door contact.

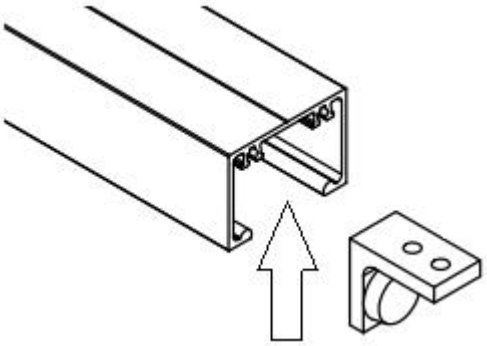
Use the door stop as a template to drill two pilot holes into the top track.

Fix the Doorstop:

Secure the stop using the self-tapping screws provided.

Ensure it is firmly fixed and correctly aligned.

Fitting the central doorstops (Cont)



Fix as per the below image.

Repeat the process for the second door stop on the opposite side.

Glazing the door(s)

Remove the glazing beads taking note of the location they have been removed from.

Locate the retaining glazing gasket (one length per screen).

Cut the retaining gasket to size, leaving it slightly oversized to account for any shrinkage.

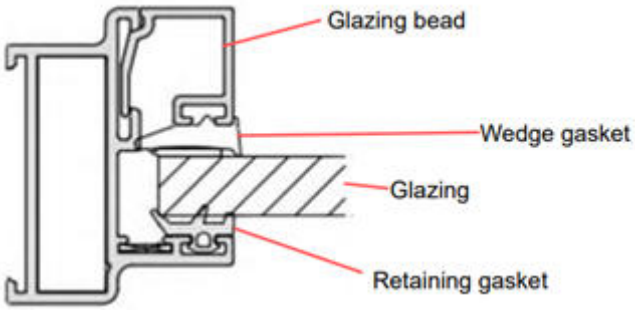
Please note, the wedge and retaining gasket have been supplied with extra material to ensure you have enough to fully seal your screen(s).

Fit the retaining gasket into the fixed frame section as per the diagram below.

Locate the glazing packers and place support packers at the bottom of the sections for the glass to sit on.

Fit the glass into the screen and pack accordingly to ensure the glass is fully secure.

Glazing the door(s)



Once the glass has been fully supported, place the beading in its original location, start at the top, then the bottom and then finish with the side sections.

Now locate and fit the wedge gasket between the glass and the bead.

The wedge gasket will require cutting to size before fitting.

The back section of the wedge gasket will require trimming to allow for a flush fitting where the glazing packers are located, as per the below diagram.

Fitting the optional wall channel (for single opening doors only)

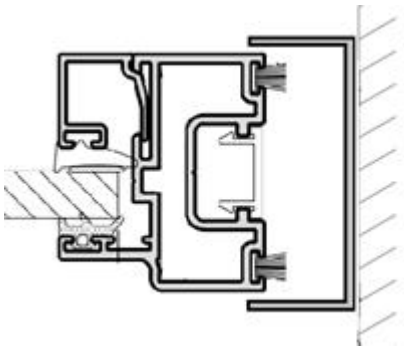
If you wish to create a section on the wall for the sliding door to locate into when closed, you can use the optional aluminium wall channel.

You can skip this section if you do not wish to install the wall channel.

Locate the aluminium wall channel.

Close the sliding door and mark on the wall where the channel will be positioned.

Fitting the optional wall channel (for single opening doors only)



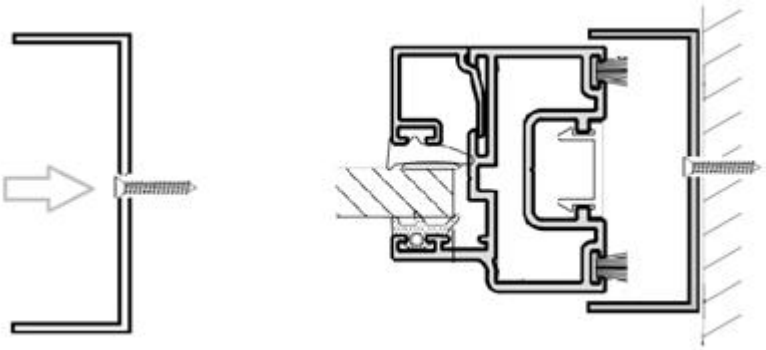
Open the door and temporarily hold the wall channel in place.

Close the door again to check that the channel aligns correctly and does not impede the door's operation.

Once satisfied with the position, mark the fixing points on both the wall and the channel.

Pilot holes into the aluminium channel and the wall.

Secure the channel in place.



Note: Fixings are not supplied for the wall channel. Ideally, use countersunk screws for a flush finish.

However, the direct frame fixings or self-tapping screws supplied can be used if preferred.

General Operation

The sliding doors operate using a top track as a guide and are located on a bottom pin for stability. While the bottom pin provides support, the doors are freely running in the top track, which means a small amount of movement is normal.

As these are internal doors, not designed for external weather sealing, some movement and slight misalignment at the bottom may occur. This is expected and does not affect performance.

Correct positioning of the top track, fixed panel, and bottom pin is essential for smooth operation and correct alignment, but due to the absence of a bottom track, minor variation at the base of the doors is normal in some installations.

Final Finish

Due to increasing demands for thinner frame sections / slimmer sightlines, this can impact on the final finish surrounding the outer frame.

It is a personal preference as to how you choose to finish up to the frame. You could foam fill and silicone seal any gaps, use a decorator's caulk, plasterboard and plaster, or finish using a trim / architrave to match.

Unfortunately, we are unable to supply any trims or architrave.