

Reference

The Rooflight Book

A guide to assist in the process of fitting Xtralite standard and continuous rooflights on all roof finishes

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2 Introduction

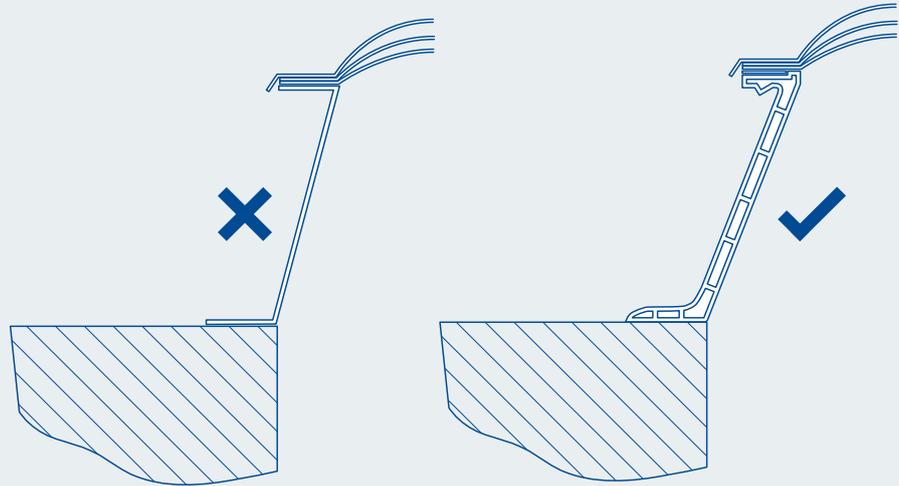
The Xtralite Contractor Guide is designed to help anyone involved with the installation of rooflights through the installation process to ensure that both finishing and function of the rooflight is as the specifier intended. It is also useful for specifiers so that they can understand the process and therefore ensure the specification of the rooflight is correct.

Part L

Background information

The 2006 revision to Part L of the Building regulations ensured that the that the whole rooflight—glazing, ventilation and fixing—must have a U value of $2.2 \text{ W/m}^2\text{K}$ or less for new construction, refurbishment & replacement and large extensions (100 m² or more than 25% of original building size).

Prior to 2006 only the glazing section of the rooflight needed to have a U value of $2.2 \text{ W/m}^2\text{K}$ or less.



Single skin metal kerbs are not compliant—even with a triple glazed top the whole rooflight needs to have a U Value of $2.2 \text{ W/m}^2\text{K}$ and cold bridges are to be avoided.

PVC insulated kerb ensures the whole rooflight meets Part L providing the overall U value is less than $2.2 \text{ W/m}^2\text{K}$.

Fire Regulations

Background information

Building fire safety rules are set out in the Building Regulations Approved Document B (2006 Edition, updated 2007). Double or triple skinned thermoplastic and double glazed glass meets the criterion laid down by this legislation. Neither create flaming droplets and Xtralite only use polycarbonate with TPA and AA ratings.

	Polycarbonate Glazing	PVC Glazing	Acrylic Glazing
Fire Performance	TPA Class 1Y FAA Class O (When source of the fire is removed—material extinguishes).	TPA Class 1Y FAA (wired) (When source of the fire is removed—material extinguishes).	TPA Class 3 (Continues to burn and propagates the fire) Major restrictions on use.
Discolouration and Demoulding	Enhanced UV Protected—light transmission Guaranteed (see Xtralite 20 years Insurance Protected Guarantee). Will not demould or deform under normal conditions.	Will discolour when exposed to strong sunlight for prolonged periods. Will demould when service temperature is exceeded for prolonged periods.	Good performance under sunlight— will not discolour under normal usage. Will not demould or deform under normal usage.
Non-Fragility Rating when tested as part of an Xtralite System to ACR[M]001:2005	Class B—Non Fragile	Fragile	Fragile

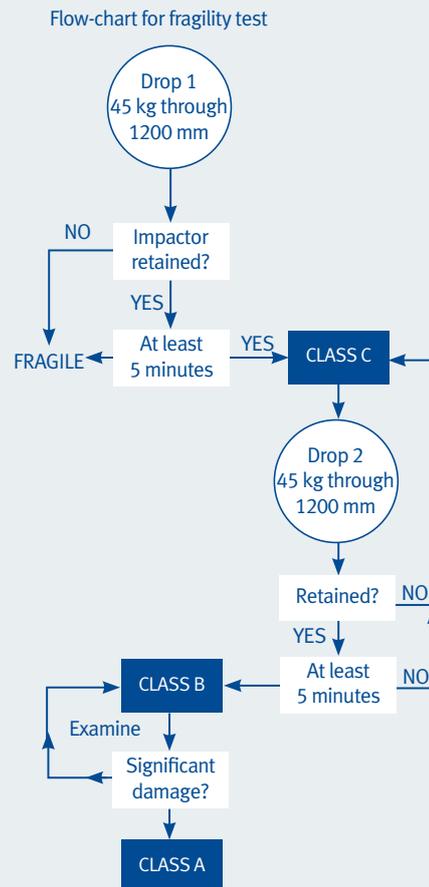
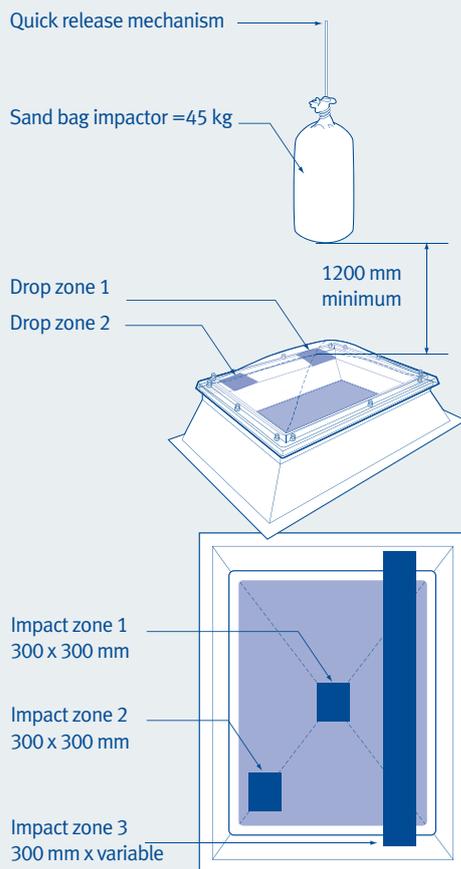
HSE publication HSG 33 (Health & safety in roof work) suggests that 'Where rooflights are required they should be specified as *Non-Fragile*'.

All of the modular rooflights manufactured by Xtralite are classified as *Non-Fragile*'.

The test for Non-Fragility is dictated by the HSE approved ACR[M] 001:2005 (Red Book) test.

The universally agreed best performance for a rooflight thus tested is Class B. Class A being a practically unattainable performance for transparent thermoplastics. All of Xtralite rooflights achieve a class 'B' performance.

Even though rooflights may be classified as non-fragile they should not be wilfully walked upon as this will not only cause damage but will encourage dangerous practise as not all manufacturers units are 'safe'.



This gives an overall indication of fire performance and can only be applied to materials that have achieved the appropriate standards. The classification was created as part of the 1985 Building Regulations approved document B but is not part of the British Standard fire testing regime. A material is classified as class o if it achieves:

BS 476 part 7: class 1

BS 476 part 6: where i1 is less than 6 and i2 is less than 12.

Although still referred to, the class o classification is no longer current.

To ensure that each bespoke rooflight is correctly manufactured, the measurements required are clarified in the descriptions and accompanying diagrams below.

Glazing only (X-Glaze) and Adaptor Kerbs

To fix X-Glaze (domes and pyramids) and rooflights with adaptor kerbs to a kerb that has been pre-built the measurements required are shown in the diagram and itemised below.

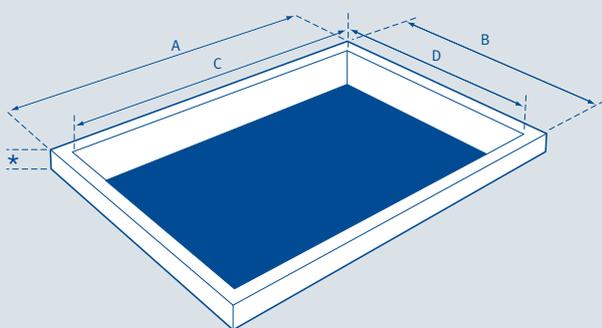
A & B

Overall finished kerb sizes including all added insulation and weatherproofing finishes.

C & D

Internal finished sizes including all well liners.

* Min 150 mm from finished roof surface.



Should the built up kerbs be insulated—please inform Xtralite of the insulation thickness to ensure a solid fixing point.

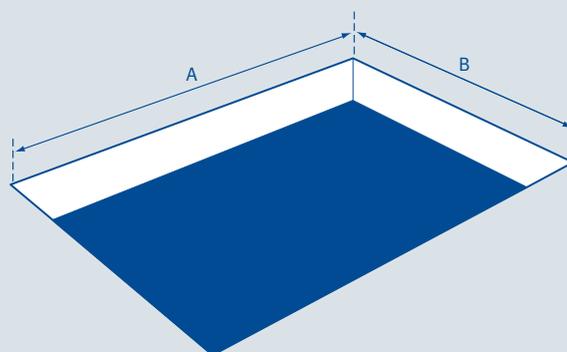
Rooflights that include a Kerb supplied by Xtralite

Care must be taken to ensure the fixing point of the rooflight kerb locates onto solid ground to ensure a secure fixing.

The measurements shown in the diagram and itemised below are the required details.

A & B

The roof opening size.



Handling and Storage Guide

Background information

Storage

Rooflights should always be stacked on their edges with an air gap between each, they should be stored away from direct sunlight—preferably under cover—on a level dry surface. Care should be taken to store rooflights in a secure location where they are unlikely to be damaged or stolen. Where possible rooflights should not be layed flat on the roof before fixing—again they should be stored on their edges out of direct sunlight. Triple and Double skin rooflights must not be nested at any point.

Handling

Caution should always be shown when handling rooflights, either at ground level or on the rooftop. Particular care should be taken in windy weather—the unpredictability of large wind gusts can make carrying large rooflights a hazardous exercise.

Weight Guide

Background information

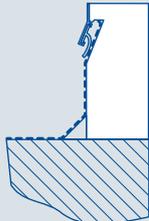
To ensure your rooflight specification can be lifted into place without contravening Health and Safety legislation or damage to the rooflights, please visit www.xtralite.co.uk/weightcalculator where you will be able to download software to calculate the weight of your specific rooflight.



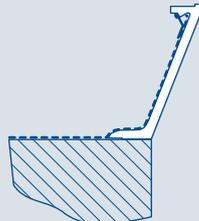
Xtralite rooflights are compatible with all roof finishes, however special care must be taken with the final detailing. Please read the guidelines below which outline some important considerations with different roof finishes.

Single Ply Membrane

Below are examples of how single ply membrane (dotted line) should be fitted to each of the Xtralite X-Range rooflights.

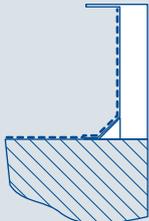


X-One

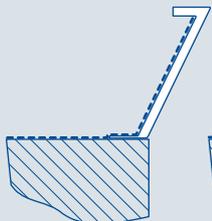


X-Two

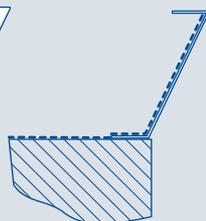
X-One and X-Two have a termination bar (see installation instructions) which should be detached, the membrane run underneath and then the bar re-attached to aid waterproofing.



X-Three



X-Four



X-Five

X-Three, X-Four and X-Five should have the membrane run all the way up the side of the kerb till it ends underneath the lip of the rooflight to aid waterproofing.

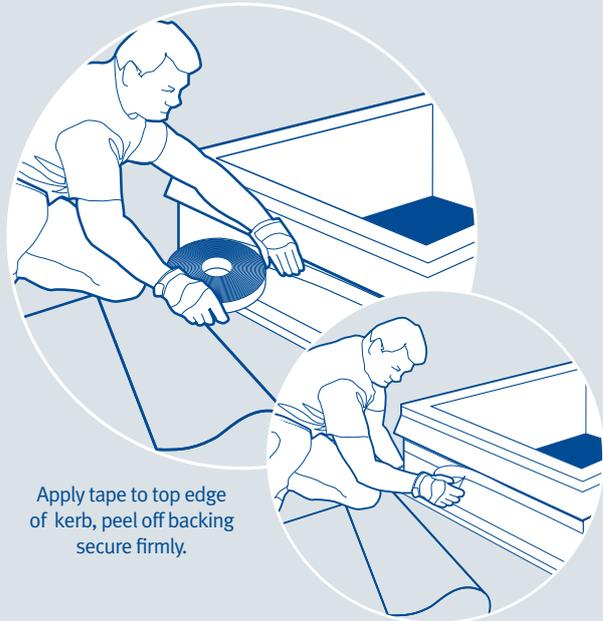
Application using contact adhesive



The adhesive needs to be applied thoroughly with a brush on upstands. The remaining large flat areas of the roof can be rolled.

Single Ply Membrane continued

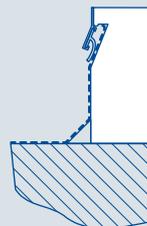
Application using mastic tape.



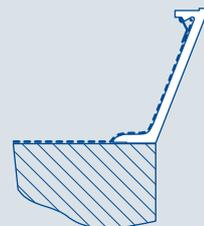
Apply tape to top edge of kerb, peel off backing secure firmly.

Bituminous Membrane

Below are examples of how bituminous membrane (dotted line) should be fitted to each of the Xtralite X-Range rooflights.

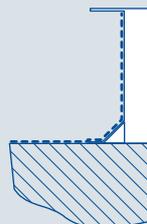


X-One



X-Two

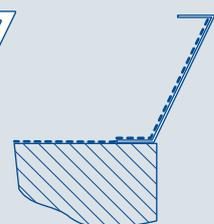
X-One and X-Two have a termination bar (see installation instructions) which should be detached, the membrane run underneath and then the bar re-attached to aid waterproofing.



X-Three



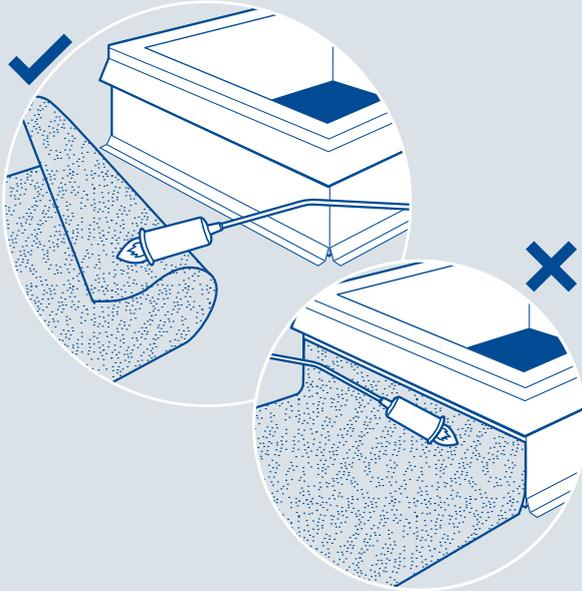
X-Four



X-Five

X-Three, X-Four and X-Five should have the membrane run all the way up the side of the kerb till it ends underneath the lip of the rooflight to ensure weatherproofing.

Bituminous Membrane continued



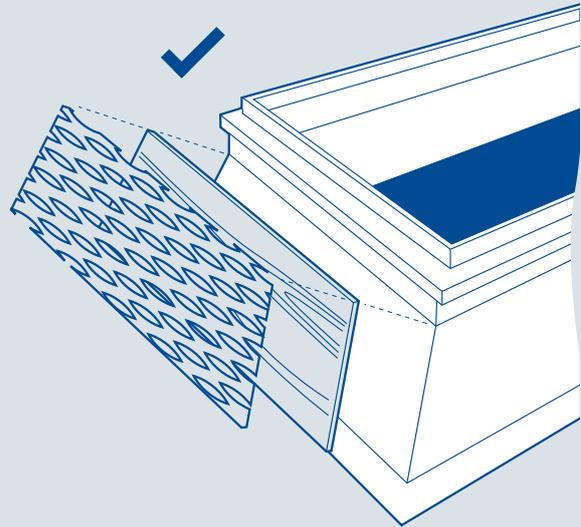
 When applying bituminous membrane heat should be applied to the membrane to allow it to adhere to the rooflight kerb. Ensure that heat is not directly applied to the rooflight kerb.

Mastic Asphalt



Insulator board is required when mastic asphalt is applied to PVC rooflight kerbs (X-One, X-Two, X-Four) to avoid melting. This can be supplied by Xtralite on request or insulating board can be fitted on site.

Expanded metal lathing is then applied to the rooflight kerb to aid adhesion.

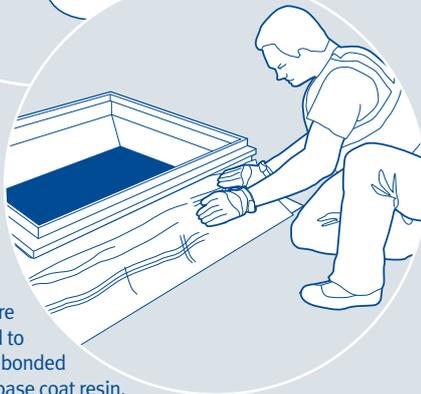
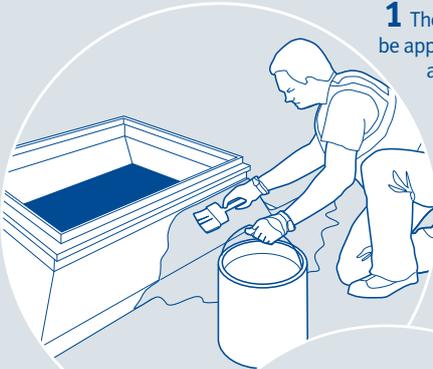


Two coats of asphalt must be applied. Each coat should be allowed to cool for 4-6 hours.

Liquid Applied Systems

Typically liquid applied systems use high performance cold applied polyurethane systems, comprising of a base coat, an intermediate layer of fibre glass and a top coat.

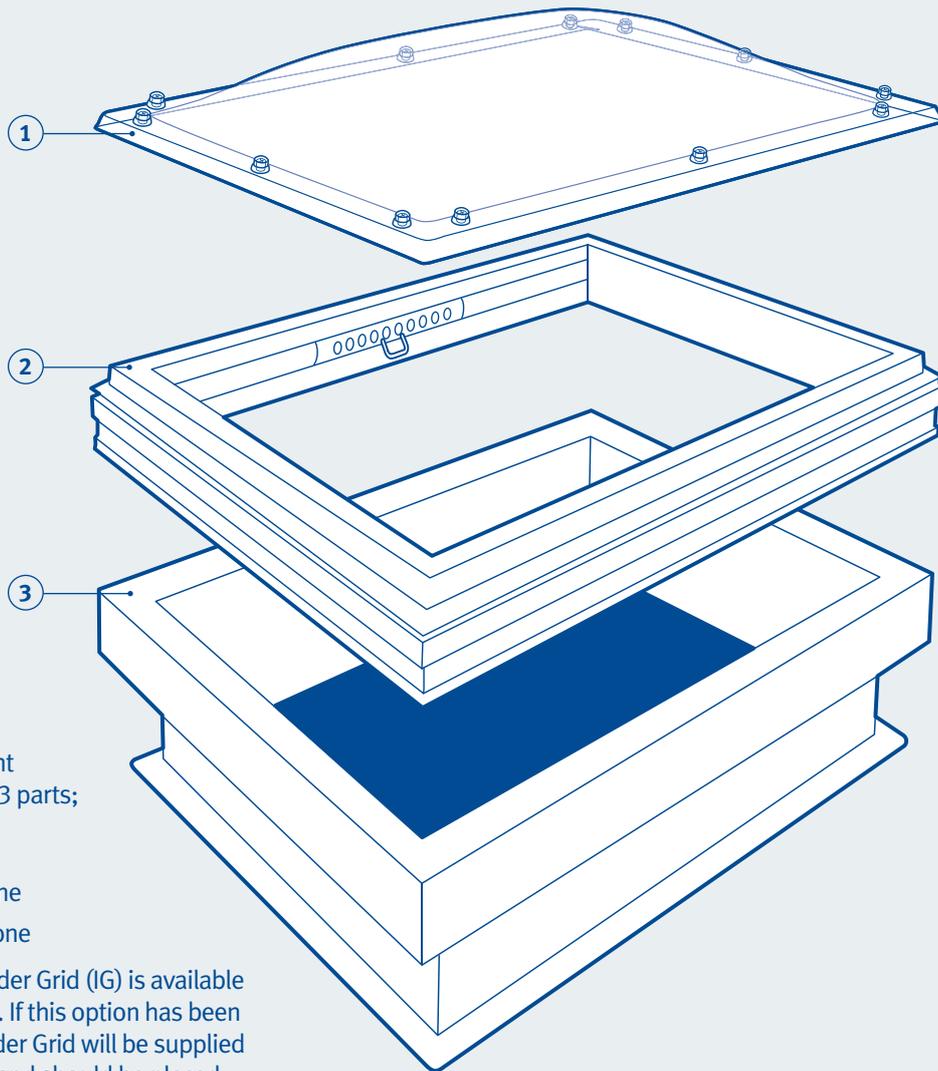
1 The base coat needs to be applied thoroughly with a brush on upstands. The remaining large flat areas of the roof can be rolled.



2 A layer of glass fibre matting is then added to all areas for strength, bonded into place with more base coat resin.

3 Finally a top coat is applied with brush and roller in the same way as the base coat.

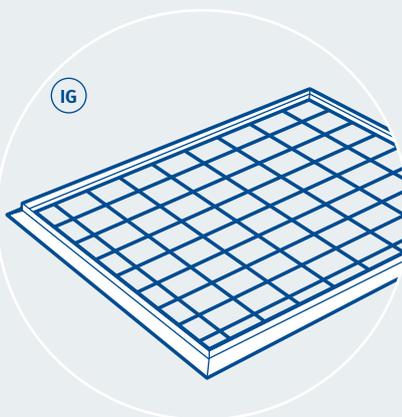




Your X-One rooflight can be supplied in 3 parts;

- ① Glazing zone
- ② Ventilation zone
- ③ Attachment zone

An additional Intruder Grid (IG) is available for greater security. If this option has been specified the Intruder Grid will be supplied as a separate part and should be placed over the roof opening, the attachment zone placed on top and then both screwed to the roof opening as outlined in the installation instructions.

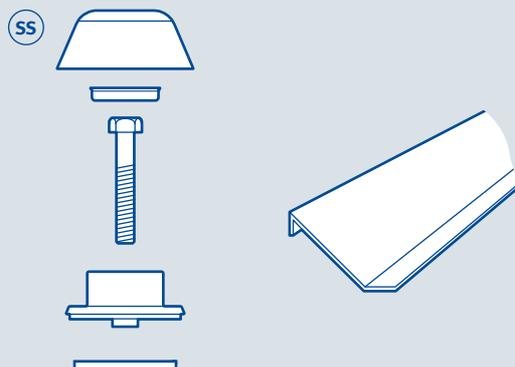


The following pages will outline the installation for all fixing methods. Choose the section which matches your roof type.

Please note the diagram above is exploded for clarity, rooflights are not always supplied split into parts.

Before you begin

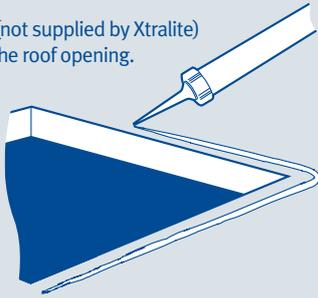
- 1** Remove all packaging from the rooflight apart from the sections which protect the glazing as this will ensure that it doesn't get damaged during the installation process.
- 2** Check that you have the correct accessory fixings, e.g. security screws (SS) and caps—if specified—or fixing fillet clip if you are fixing direct to roof deck.



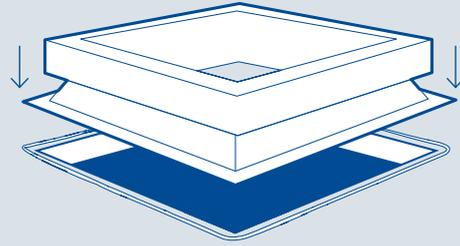
Metal foot

Fixing method **A&B**

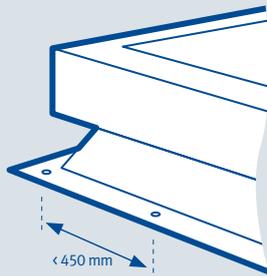
1 Apply silicon (not supplied by Xtralite) around the roof opening.



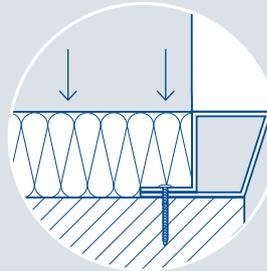
2 Place attachment zone with adapter kerb onto roof opening.



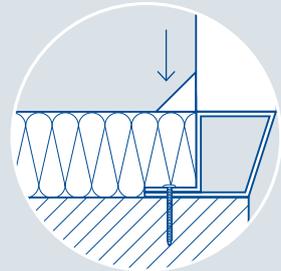
3 Screw metal foot to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.



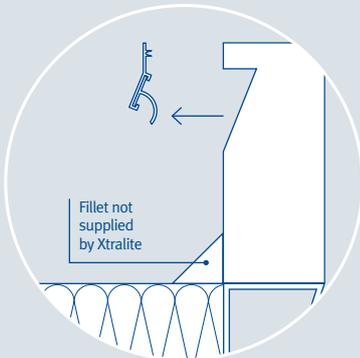
4 Fix insulation to roof ensuring it meets the metal foot of the rooflight.



5 Place angle fillet (not supplied by Xtralite).



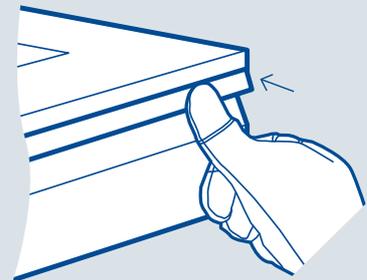
6 Unclip the termination bar from the attachment zone.



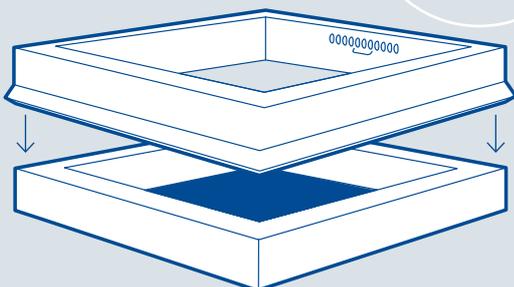
7 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

The roof finish should always extend far enough up the side of the rooflight to be covered by the termination bar.

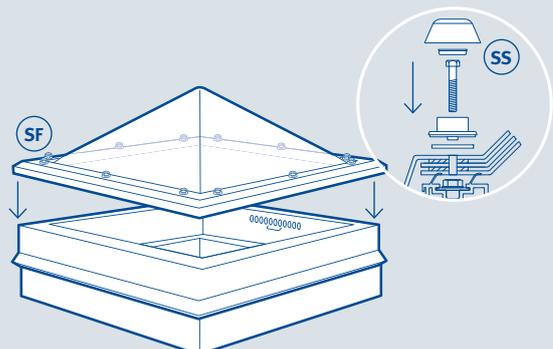
8 After roof finish is properly fitted, re-clip the termination bar into the attachment zone.



9 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.

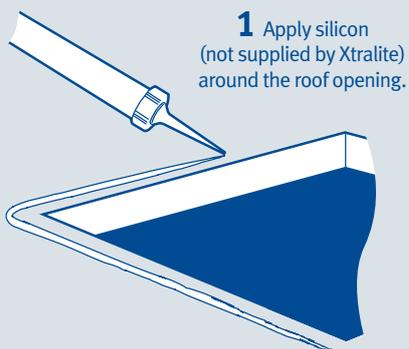


10 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.

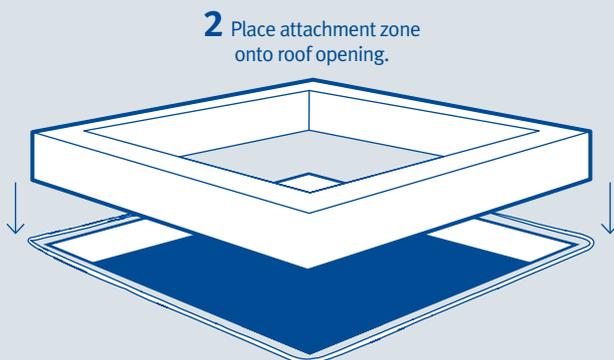


Direct to roof

Fixing method C

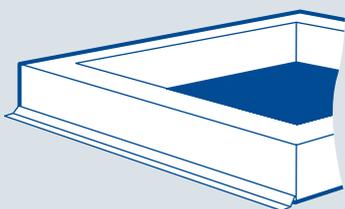
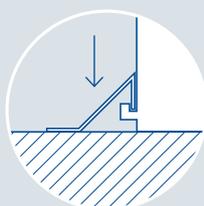


1 Apply silicon (not supplied by Xtralite) around the roof opening.

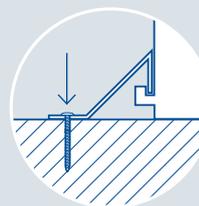
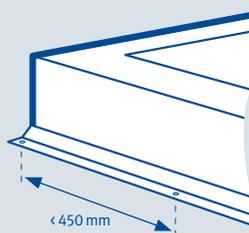


2 Place attachment zone onto roof opening.

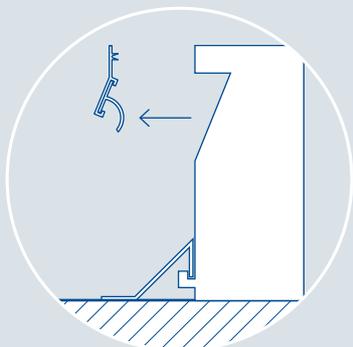
3 Attach supplied fixing clip to each side of the rooflight. This clip will also form the angle fillet.



4 Screw fixing clip to the roof. Screws should be placed 50 mm from each end of the clip and a maximum of 450 mm centres thereafter.



5 Unclip the termination bar from the attachment zone.



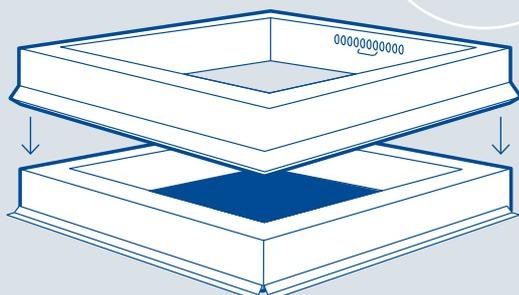
6 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

The roof finish should always extend far enough up the side of the rooflight to be covered by the termination bar.

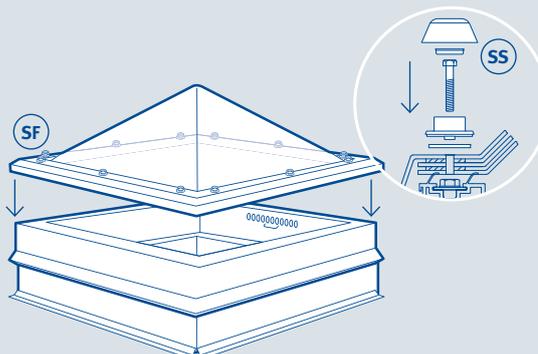
7 After roof finish is properly fitted, re-clip the termination bar into the attachment zone.



8 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



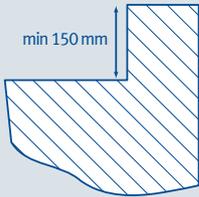
9 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.



Adapter kerb

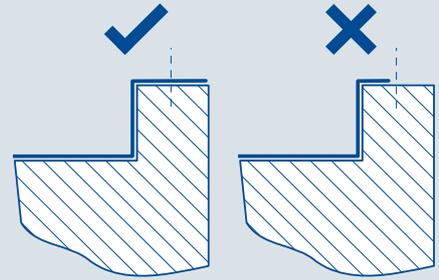
Fixing method **D**

1 To ensure water run-off the builders kerb should have a level surface on which to fix the rooflight.

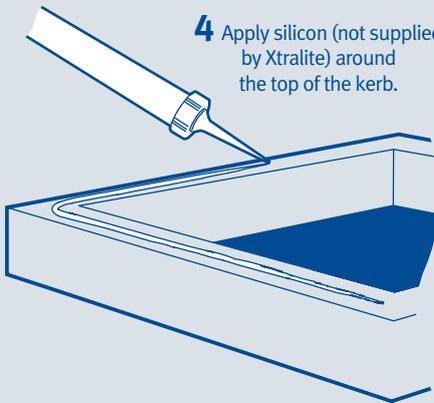


2 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

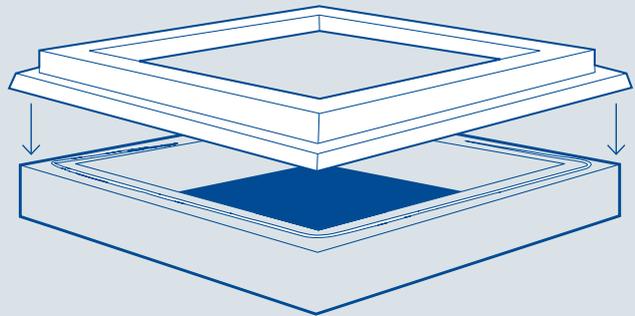
3 Ensure the roof finish has been continued to the internal edge of the kerb.



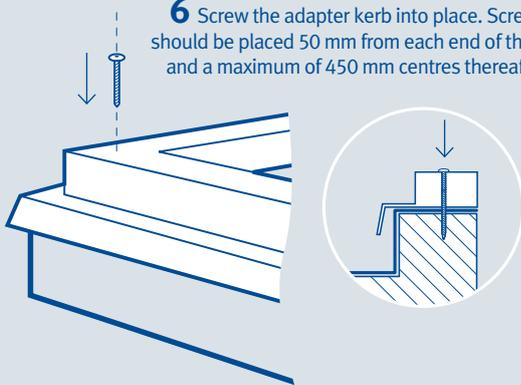
4 Apply silicon (not supplied by Xtralite) around the top of the kerb.



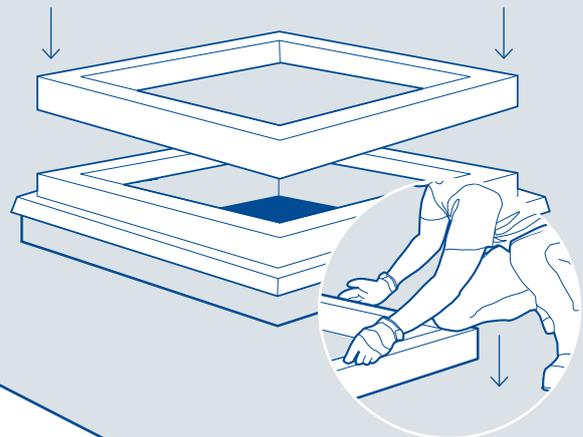
5 Place the adapter kerb over the builders kerb.



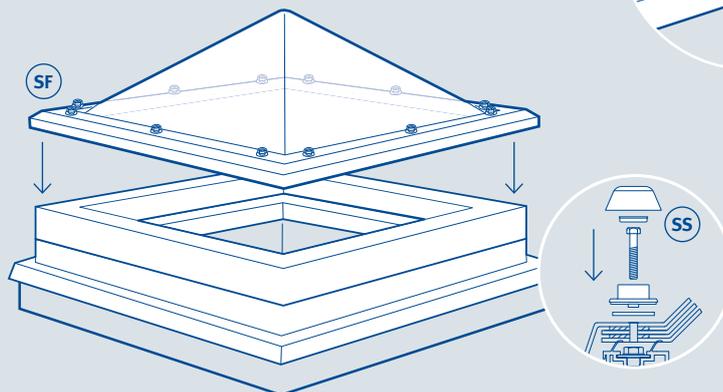
6 Screw the adapter kerb into place. Screws should be placed 50 mm from each end of the clip and a maximum of 450 mm centres thereafter.

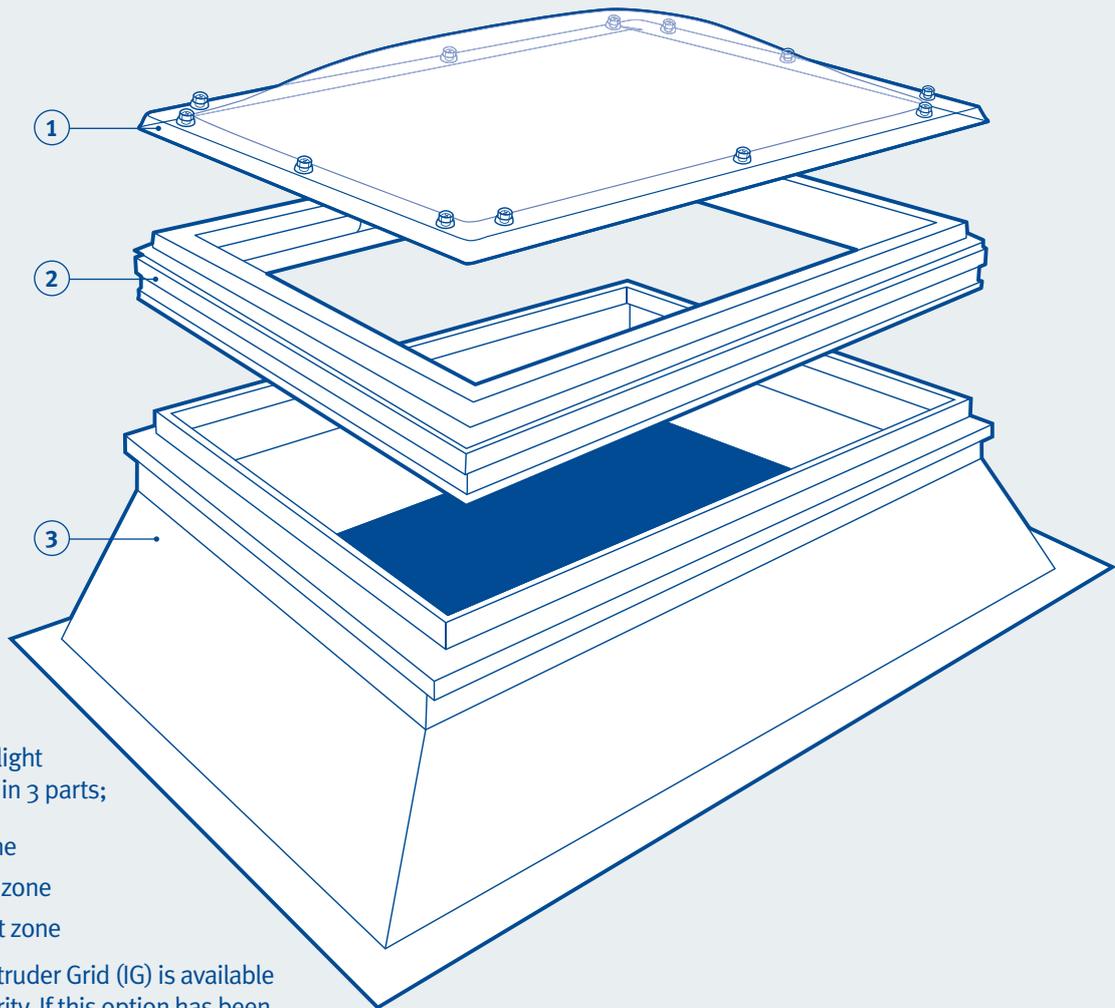


7 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



8 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.

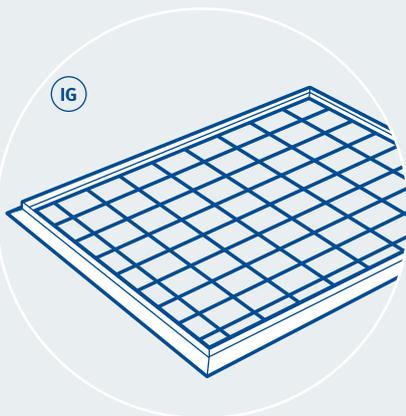




Your X-Two rooflight will be supplied in 3 parts;

- ① Glazing zone
- ② Ventilation zone
- ③ Attachment zone

An additional Intruder Grid (IG) is available for greater security. If this option has been specified the Intruder Grid will be supplied as a separate part and should be placed over the roof opening, the attachment zone placed on top and then both screwed to the roof opening as outlined in the installation instructions.

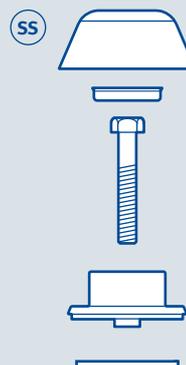


The following pages will outline the installation for all fixing methods. Choose the section which matches your roof type.

Please note the diagram above is exploded for clarity, rooflights are not always supplied split into parts.

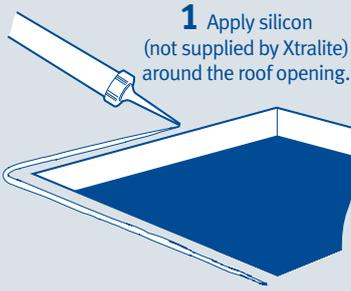
Before you begin

- 1 Remove all packaging from the rooflight apart from the sections which protects the glazing as this will ensure it doesn't get damaged during the installation process.
- 2 Check that you have the correct accessory fixings, e.g. security screws (SS) and caps if specified.

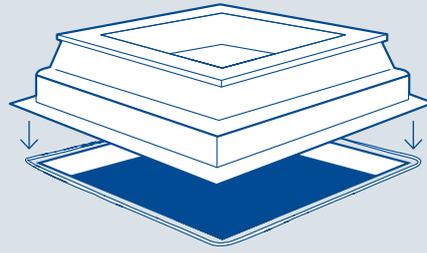


Metal foot

Fixing method **A&B**

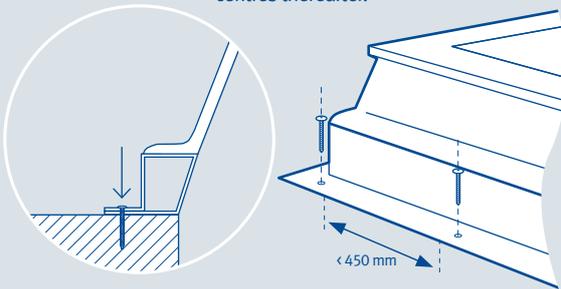


1 Apply silicon (not supplied by Xtralite) around the roof opening.

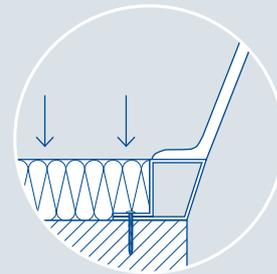


2 Place attachment zone with adapter kerb onto roof opening.

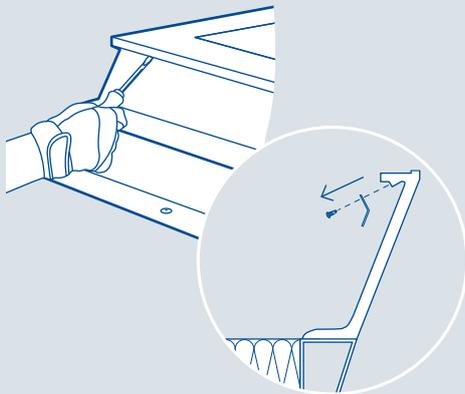
3 Screw metal foot to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.



4 Fix insulation to roof ensuring it meets the metal foot of the rooflight.



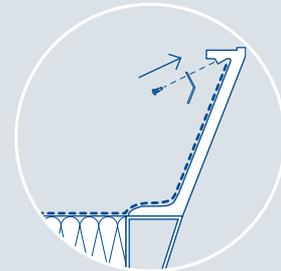
5 Unscrew the termination bar from the attachment zone.



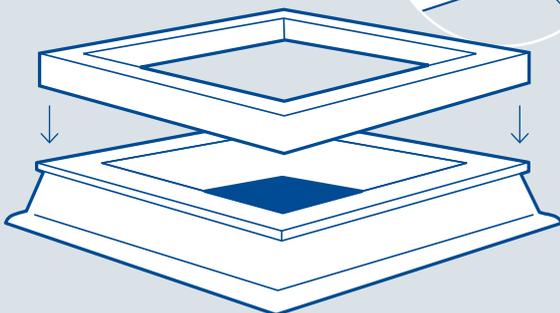
6 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

The roof finish should always extend far enough up the side of the rooflight to be covered by the termination bar.

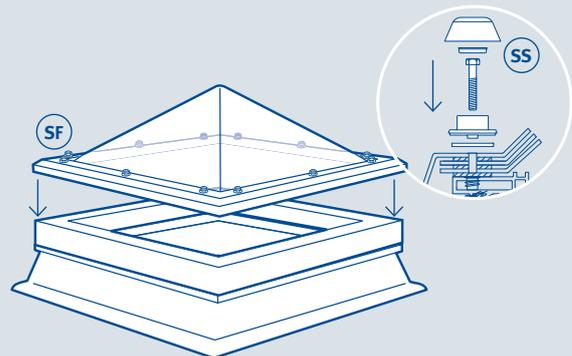
7 After roof finish is properly fitted, re-clip the termination bar into the attachment zone.



8 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



9 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.

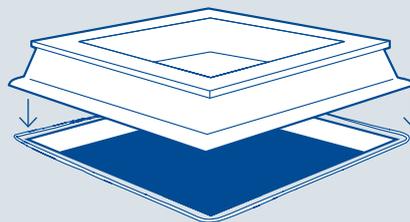


Direct to roof

Fixing method C

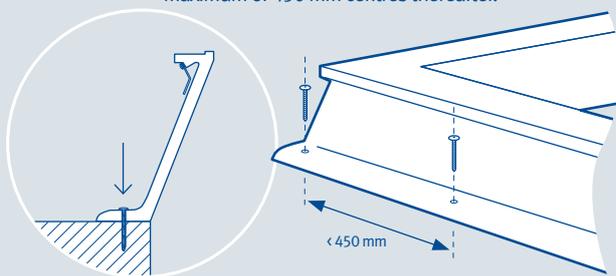


1 Apply silicon (not supplied by Xtralite) around the roof opening.



2 Place attachment zone with adapter kerb onto roof opening.

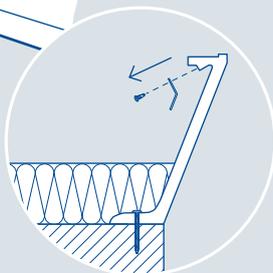
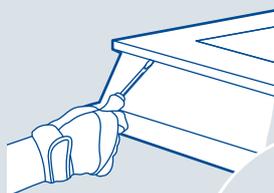
3 Screw the attachment zone to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.



4 Fix insulation to roof ensuring it meets the metal foot of the rooflight.



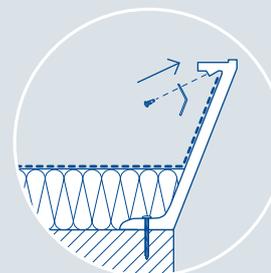
5 Unscrew the termination bar from the attachment zone.



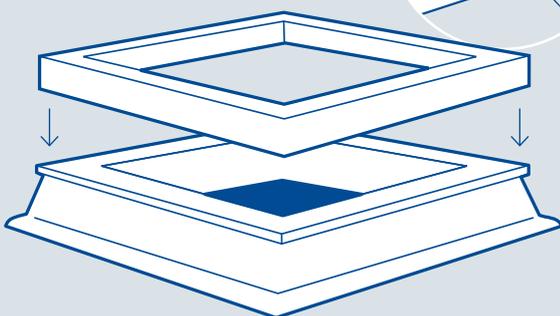
6 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

The roof finish should always extend far enough up the side of the rooflight to be covered by the termination bar.

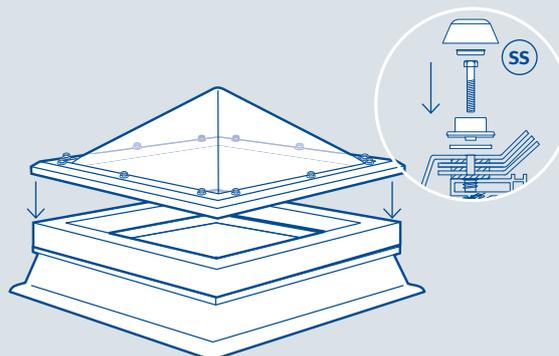
7 After roof finish is properly fitted, re-clip the termination bar into the attachment zone.



8 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



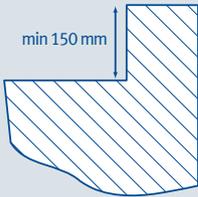
9 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.



Adapter kerb

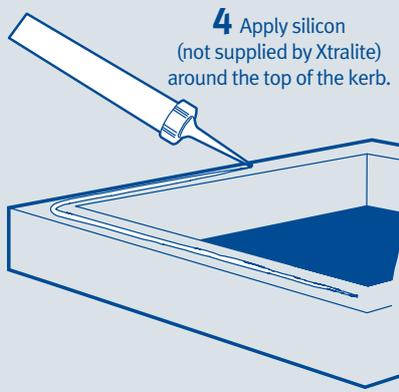
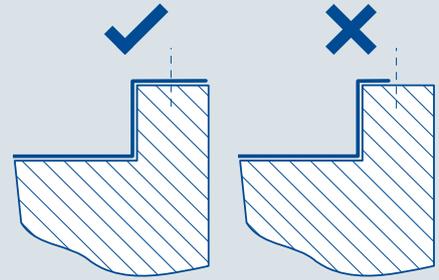
Fixing method **D**

1 To ensure water run-off the builders kerb should have a level surface on which to fix the rooflight.

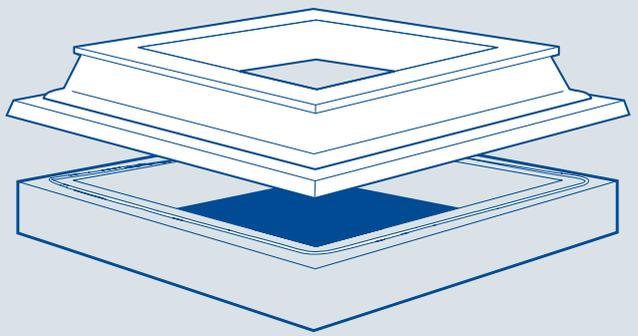


2 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

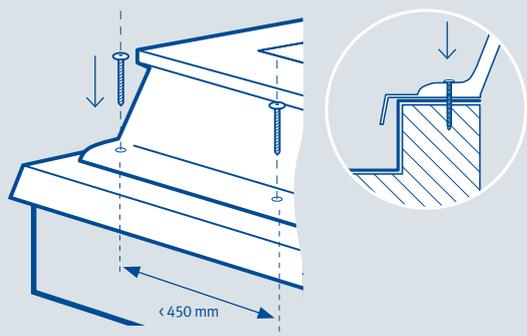
3 Ensure the roof finish had been continued to the internal edge of the kerb.



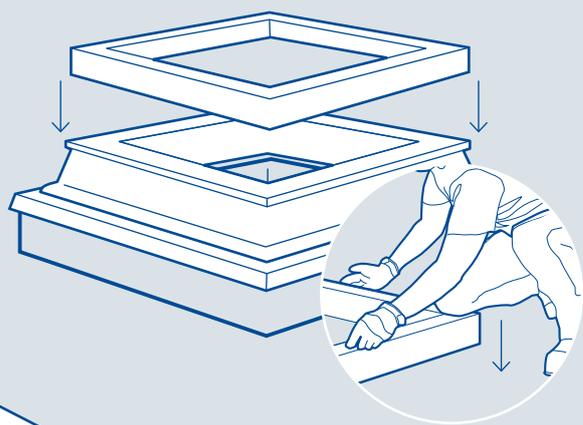
5 Place the adapter kerb over the builders kerb.



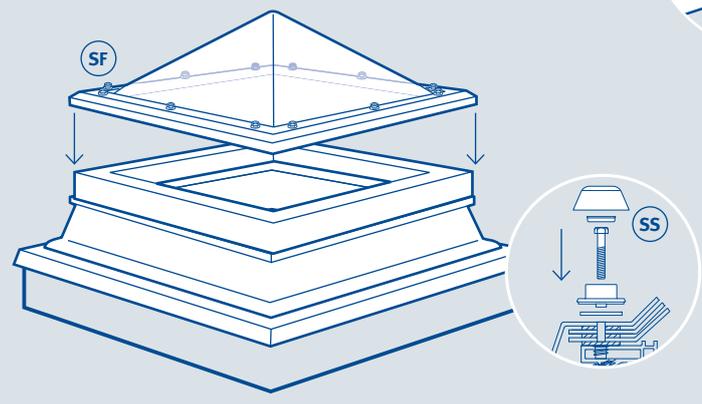
6 Screw the adapter kerb into place. Screws should be placed 50 mm from each end of the clip and a maximum 450 mm centres thereafter.

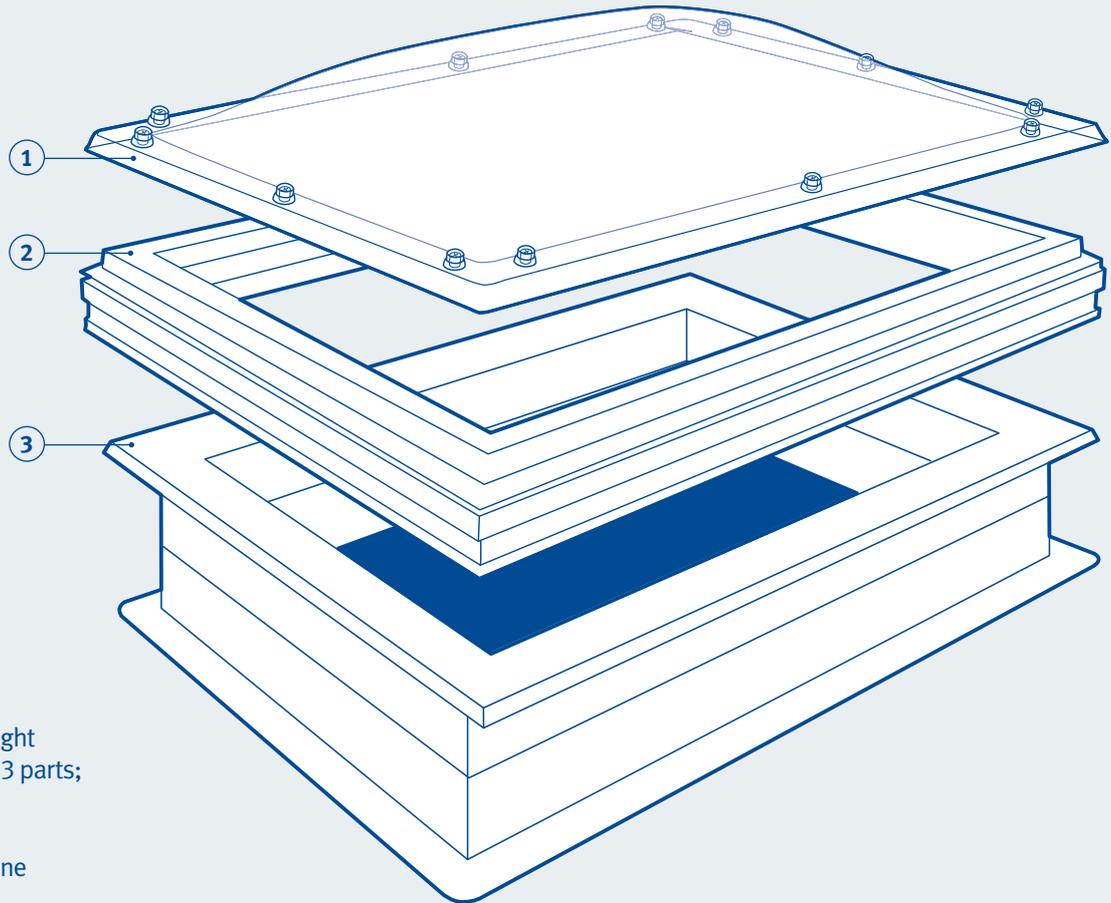


7 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



8 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.

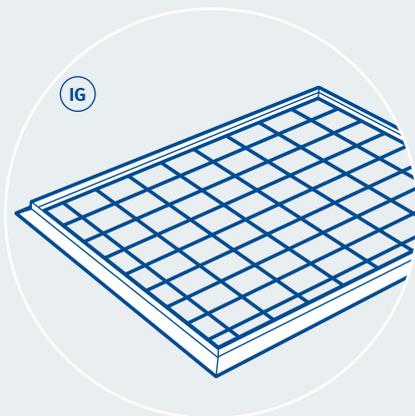




Your X-Three rooflight will be supplied in 3 parts;

- ① Glazing zone
- ② Ventilation zone
- ③ Attachment zone

An additional Intruder Grid (IG) is available for greater security. If this option has been specified the Intruder Grid will be supplied as a separate part and should be placed over the roof opening, the attachment zone placed on top and then both screwed to the roof opening as outlined in the installation instructions.



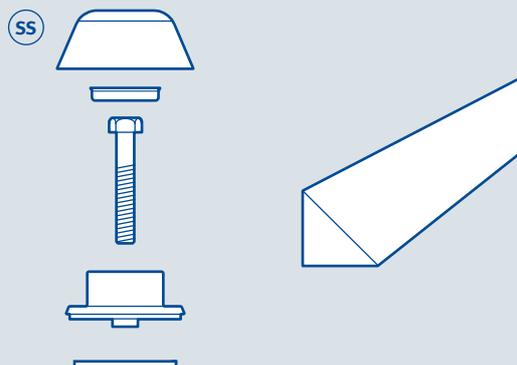
The following pages will outline the installation for all fixing methods. Choose the section which matches your roof type.

Please note the diagram above is exploded for clarity, rooflights are not always supplied split into parts.

Before you begin

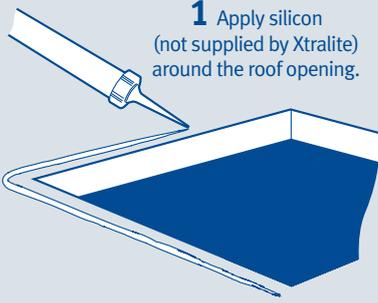
1 Remove all packaging from the rooflight apart from the sections which protects the glazing as this will ensure the it doesn't get damaged during the installation process.

2 Check that you have the correct accessory fixings as per specification, e.g. security screws (SS) and caps. An angle fillet may be required (not supplied) by contractor if kerb is vertical.



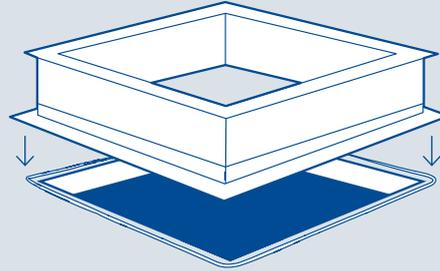
Metal foot

Fixing method **A&B**

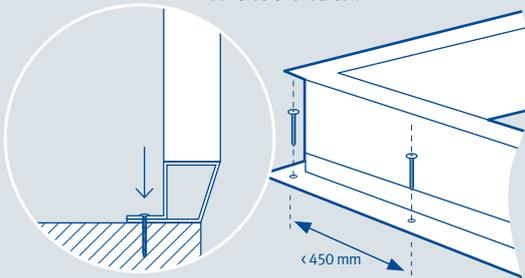


1 Apply silicon (not supplied by Xtralite) around the roof opening.

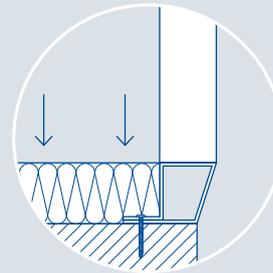
2 Place attachment zone with metal foot onto roof opening.



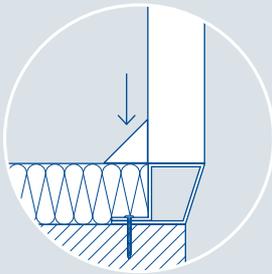
3 Screw metal foot to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.



4 Fix insulation to roof ensuring it meets the metal foot of the rooflight.

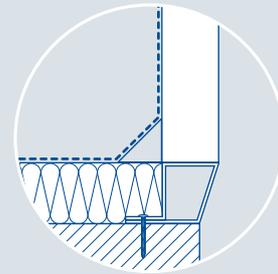


5 Place angle fillet (not supplied by Xtralite).

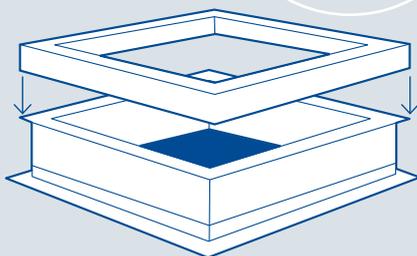


6 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

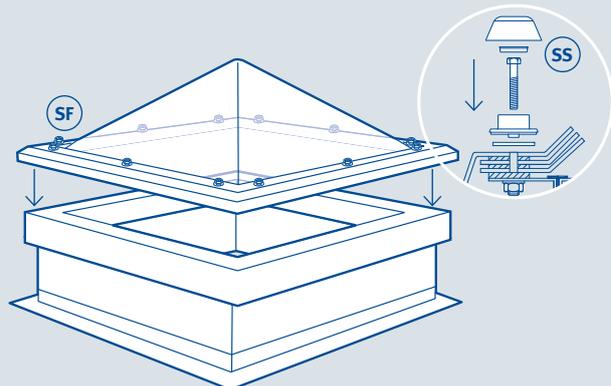
The roof finish should always extend far enough up the side of the rooflight to end underneath the lip of the rooflight.



7 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.

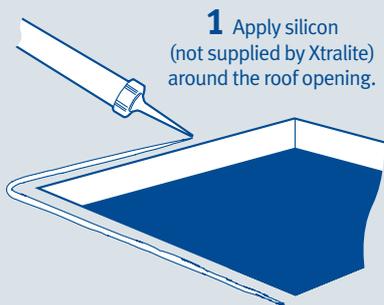


8 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.



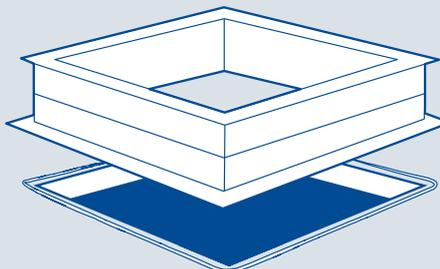
Direct to roof

Fixing method C

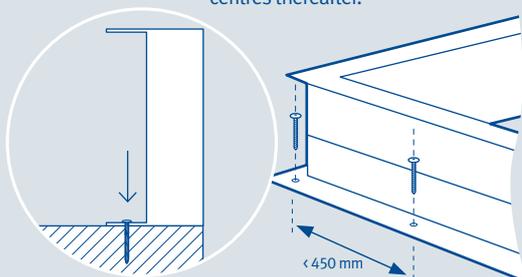


1 Apply silicon (not supplied by Xtralite) around the roof opening.

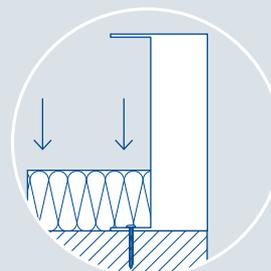
2 Place attachment zone with adapter kerb onto roof opening.



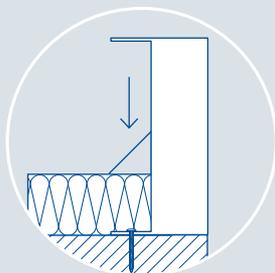
3 Screw attachment zone to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.



4 Fix insulation to roof.

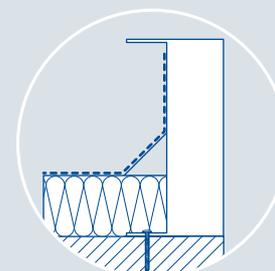


5 Place angle fillet (not supplied by Xtralite).

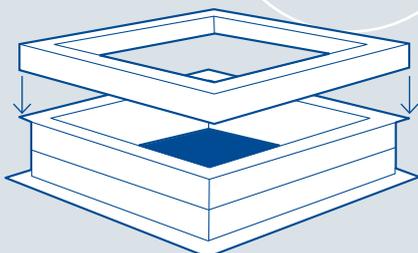
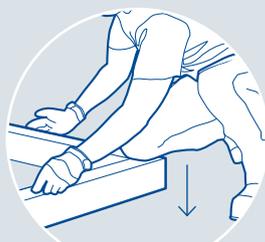


6 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

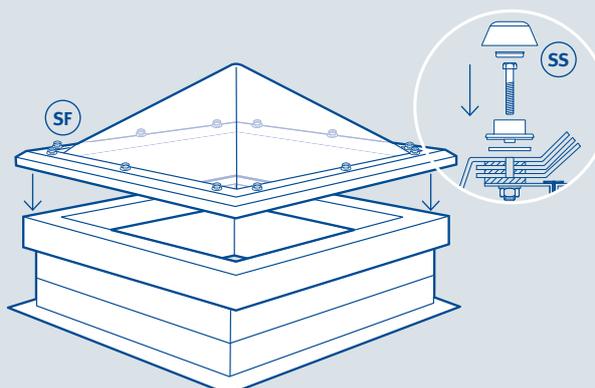
The roof finish should always extend far enough up the side of the rooflight to end underneath the lip of the rooflight.



7 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



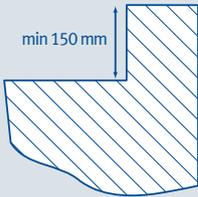
8 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place like the ventilation zone.



Adapter kerb

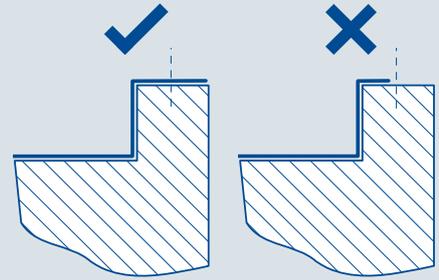
Fixing method **D**

1 To ensure water run-off the builders kerb should have a level surface on which to fix the rooflight.

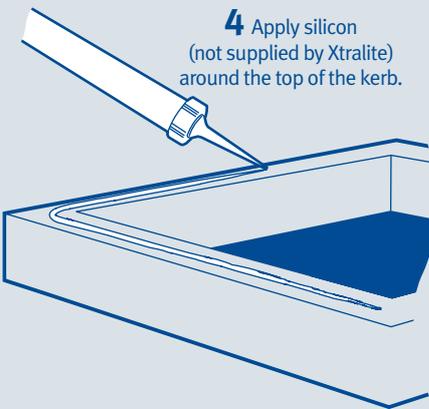


2 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

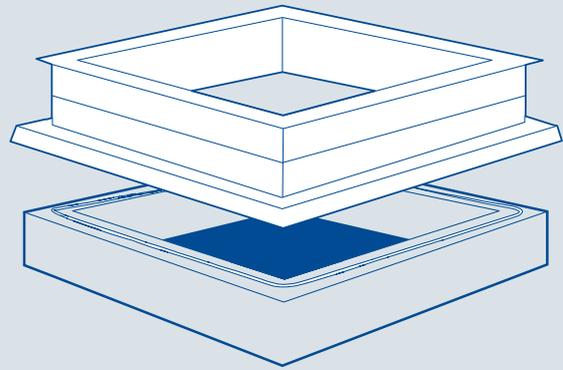
3 Ensure the roof finish has been continued to the internal edge of the kerb.



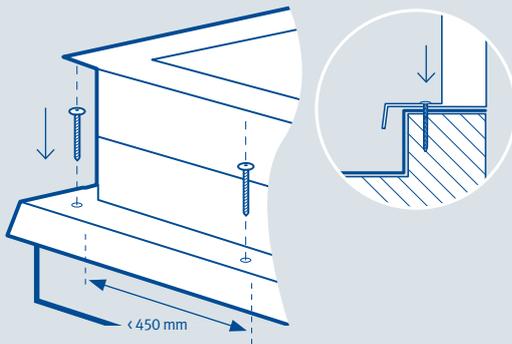
4 Apply silicon (not supplied by Xtralite) around the top of the kerb.



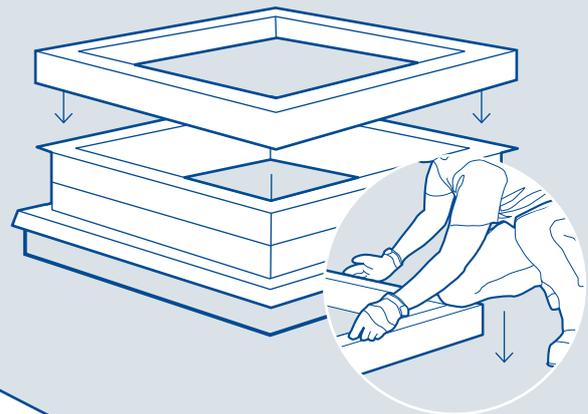
5 Place the adapter kerb over the builders kerb.



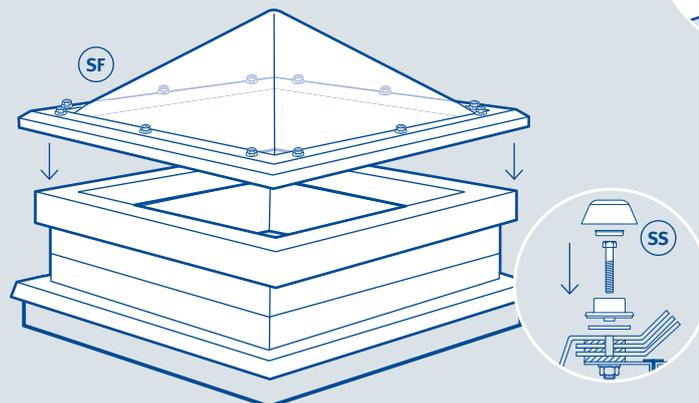
6 Screw the adapter kerb into place. Screws should be placed 50 mm from each end of the clip and a maximum of 450 mm centres thereafter.

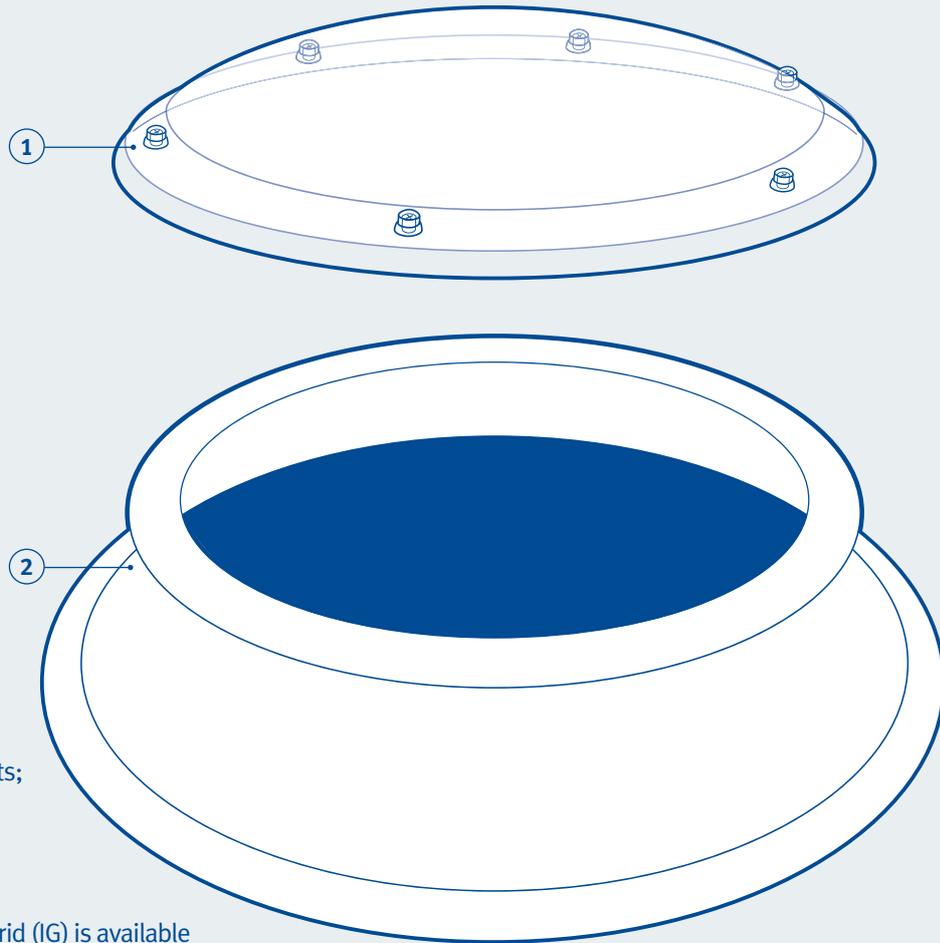


7 Attach the ventilation zone. It will clip into the attachment zone with a 'click' when it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



8 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into place.

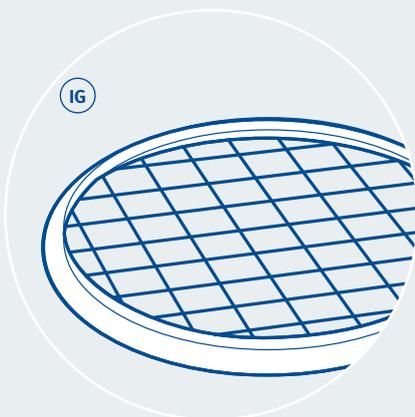




Your X-Four rooflight will be supplied in 2 parts;

- ① Glazing zone
- ② Attachment zone

An additional Intruder Grid (IG) is available for greater security. If this option has been specified the Intruder Grid will be supplied as a separate part and should be placed over the roof opening, the attachment zone placed on top and then both screwed to the roof opening as outlined in the installation instructions.



The following pages will outline the installation for fixing the rooflight direct to the roof deck.

Please note the diagram above is exploded for clarity, rooflights are not always supplied split into parts.

Before you begin

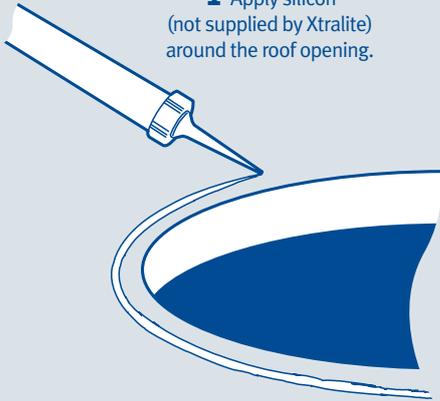
- 1 Remove all packaging from the rooflight apart from the sections which protects the glazing as this will ensure the it doesn't get damaged during the installation process.
- 2 Check that you have the correct accessory fixings, e.g. security screws (SS) and caps if specified.



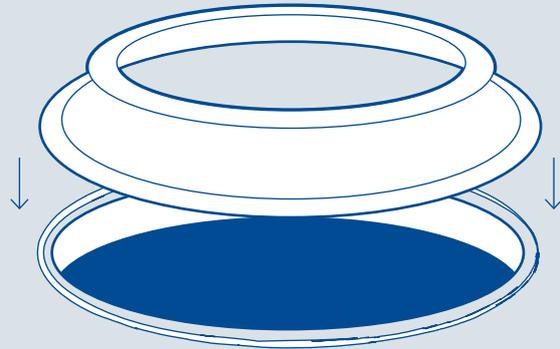
Direct to Roof

Fixing
method C

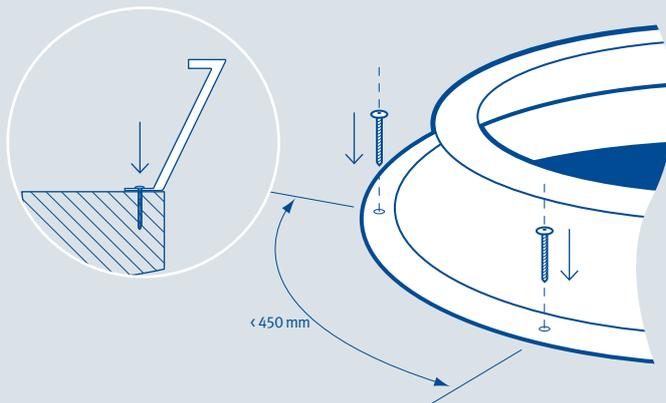
- 1** Apply silicon (not supplied by Xtralite) around the roof opening.



- 2** Place attachment zone onto roof opening.



- 3** Screw the attachment zone to the roof opening. Screws should be placed at a maximum of 450 mm centres.

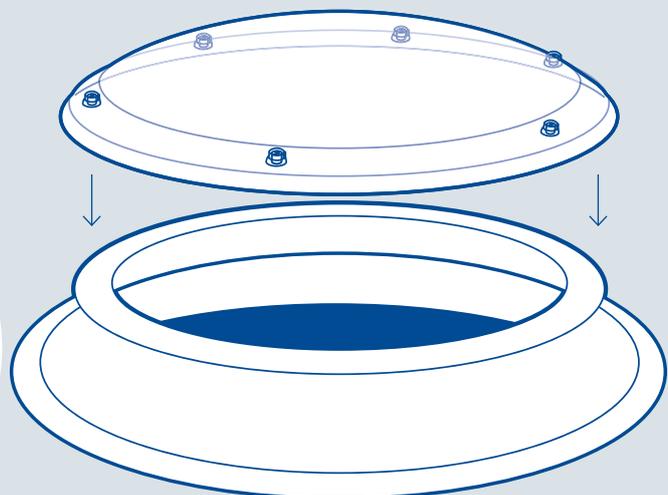
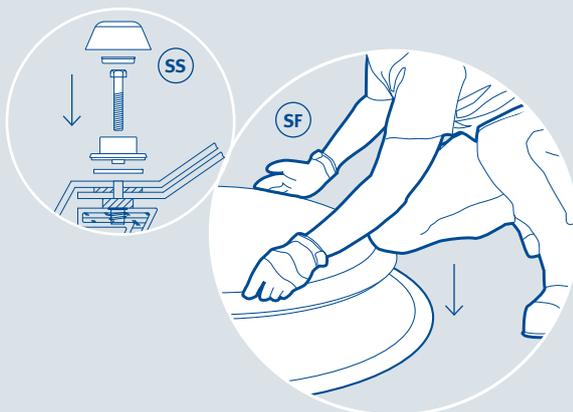


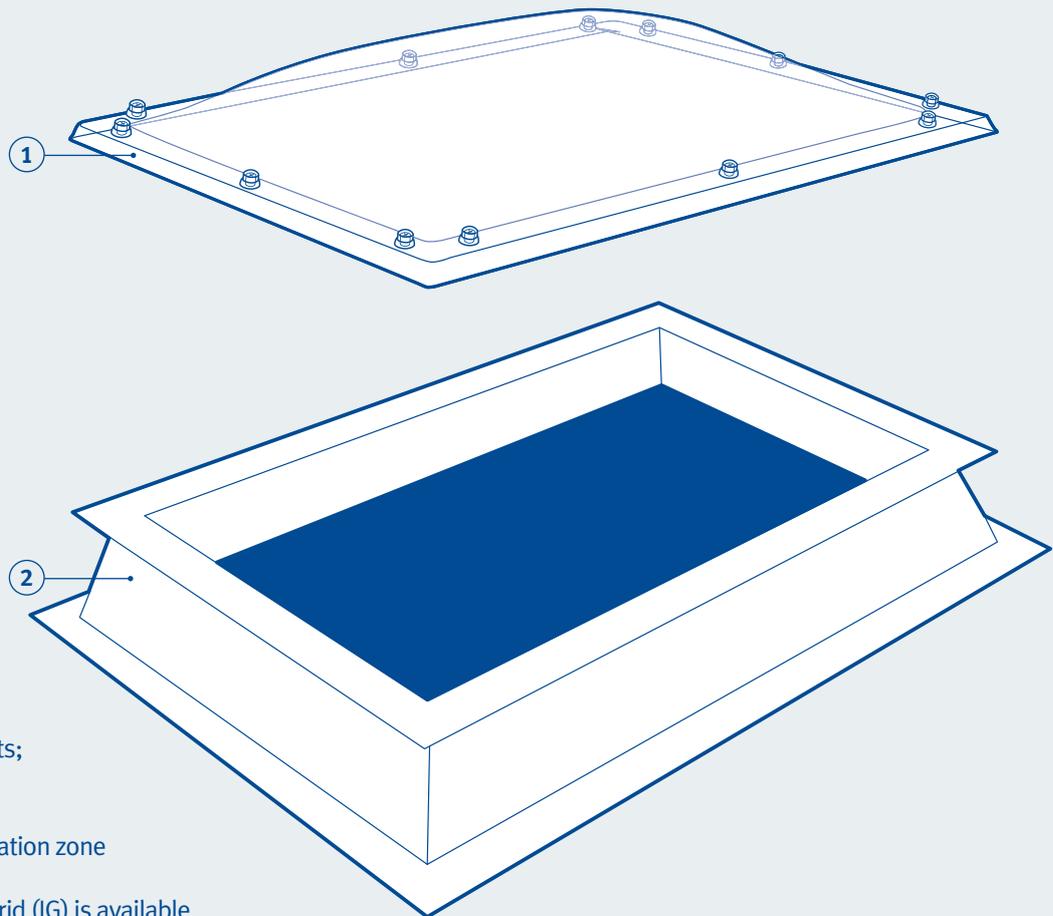
- 4** Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

The roof finish should always extend far enough up the side of the rooflight to finish underneath the lip of the attachment zone.



- 5** Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—it will clip into the attachment zone with a 'click' when it is properly located, gentle pressure can be applied to the edge of the glazing zone using your knee.

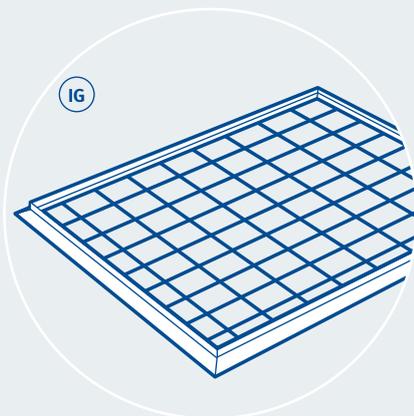




Your X-Five rooflight will be supplied in 2 parts;

- ① Glazing zone
- ② Attachment /Ventilation zone

An additional Intruder Grid (IG) is available for greater security. If this option has been specified the Intruder Grid will be supplied as a separate part and should be placed over the roof opening, the attachment zone placed on top and then both screwed to the roof opening as outlined in the installation instructions.



The following pages will outline the installation for all fixing methods. Choose the section which matches your roof type.

Please note the diagram above is exploded for clarity, rooflights are not always supplied split into parts.

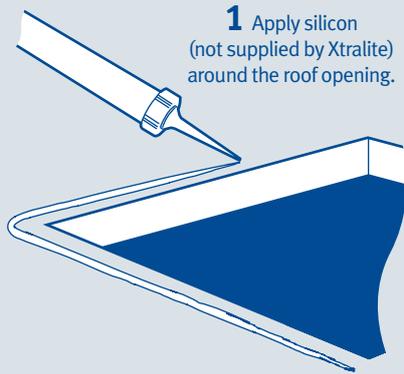
Before you begin

- 1 Remove all packaging from the rooflight apart from the sections which protects the glazing as this will ensure the it doesn't get damaged during the installation process.
- 2 Check that you have the correct accessory fixings, e.g. security screws (SS) and caps if specified.

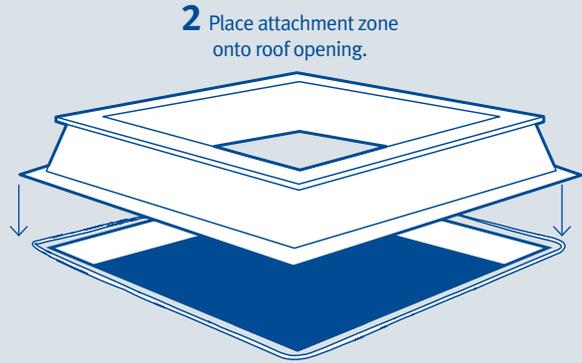


Direct to roof

Fixing method C

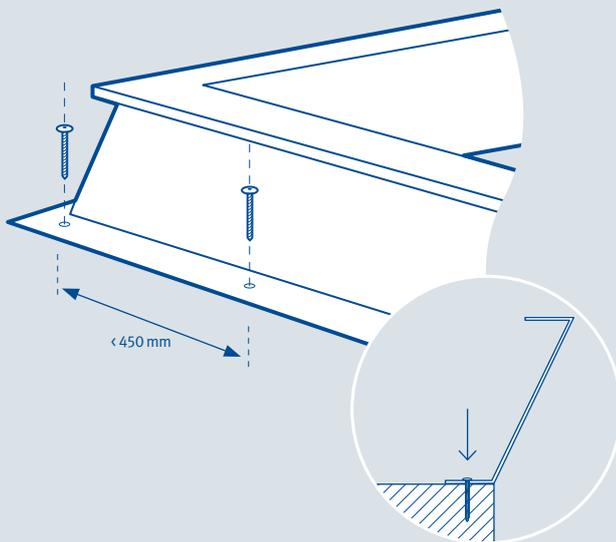


1 Apply silicon (not supplied by Xtralite) around the roof opening.



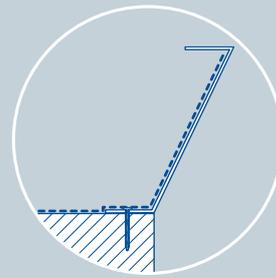
2 Place attachment zone onto roof opening.

3 Screw the attachment zone to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.

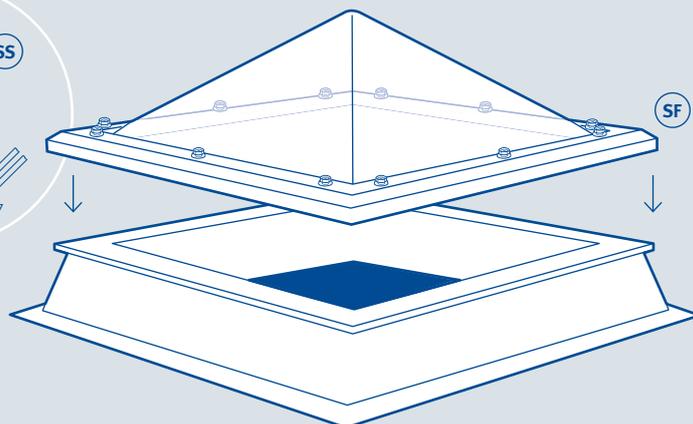
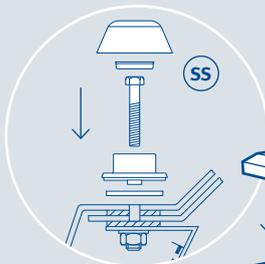


4 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

The roof finish should always extend far enough up the side of the rooflight to terminate under the edge of the rooflight.



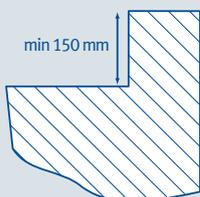
5 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into the attachment zone. When it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



Adapter kerb

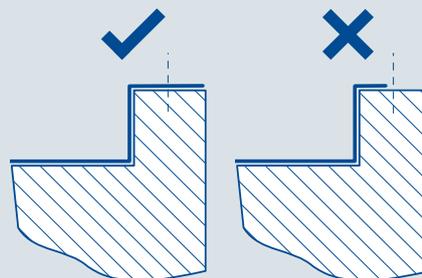
Fixing method **D**

1 To ensure water run-off the builders kerb should have a level surface on which to fix the rooflight.

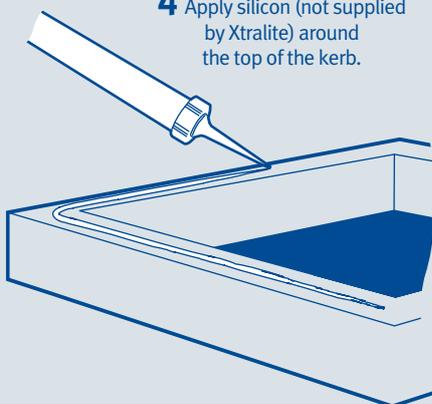


2 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

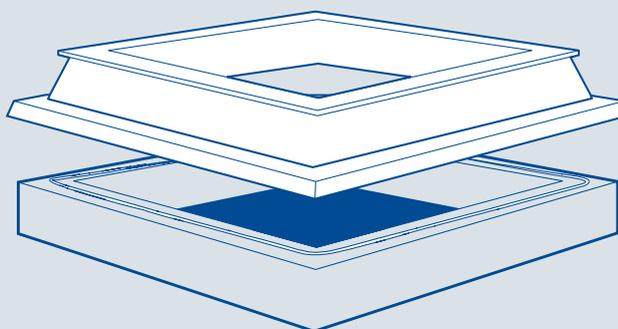
3 Ensure the roof finish has been continued to the internal edge of the kerb.



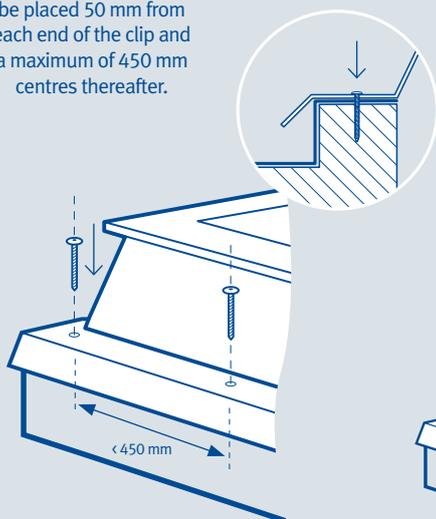
4 Apply silicon (not supplied by Xtralite) around the top of the kerb.



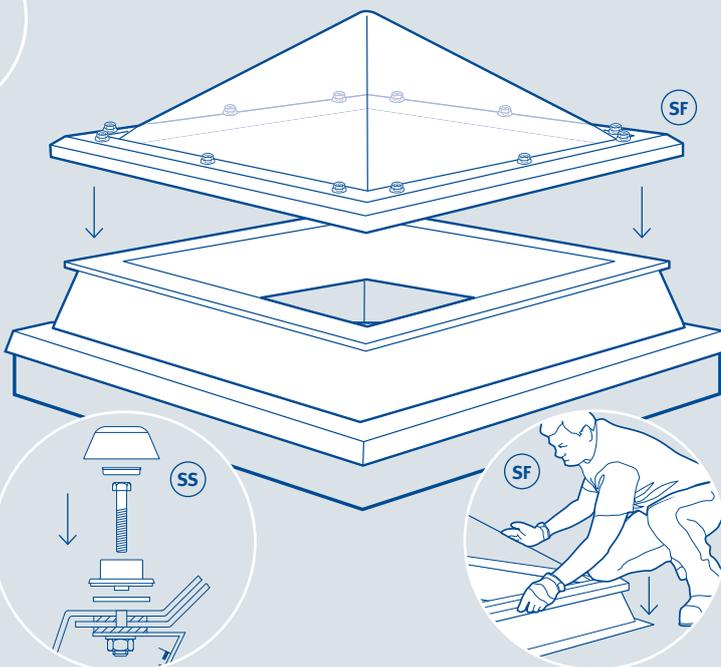
5 Place the adapter kerb over the builders kerb.



6 Screw the adapter kerb into place. Screws should be placed 50 mm from each end of the clip and a maximum of 450 mm centres thereafter.

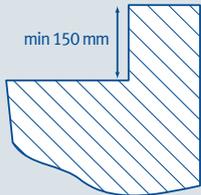


7 Attach the glazing zone. This will either need to be attached with security screws (SS) or—if a security frame (SF) has been fitted—clipped into the attachment zone. When it is properly located, pressure can be applied to the top of the ventilation zone using your knee.



Builder's kerb

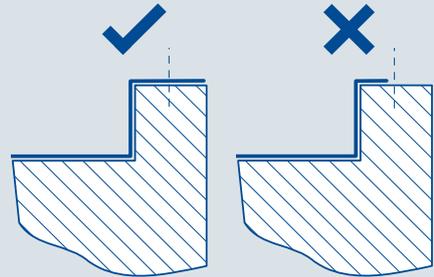
1 To ensure water run-off the builders kerb should have a level surface on which to fix the rooflight.



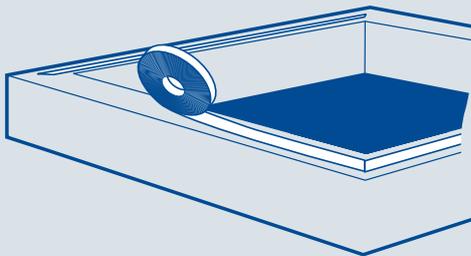


2 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

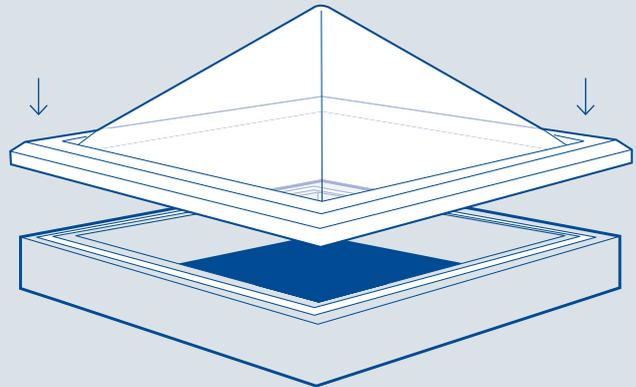
3 Ensure the roof finish had been continued to the internal edge of the kerb.



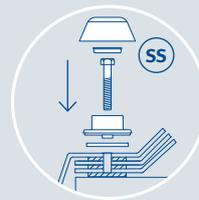
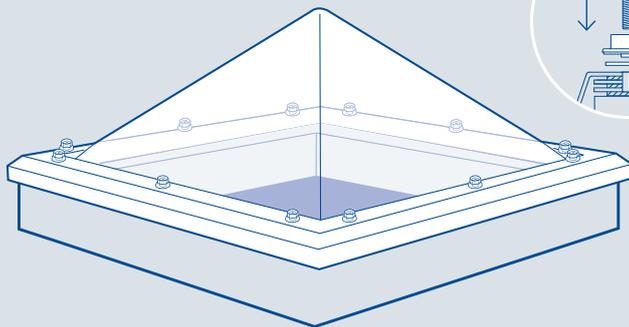
4 Apply white tape (supplied by Xtralite) around the top of the builder's kerb.



5 Place the glazing over the builders kerb.



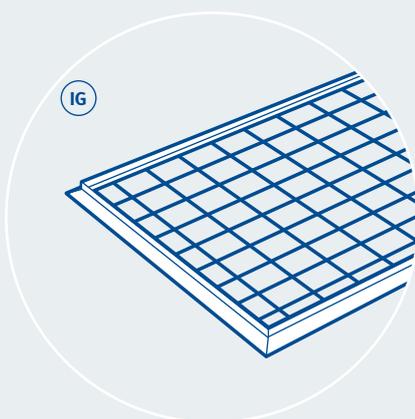
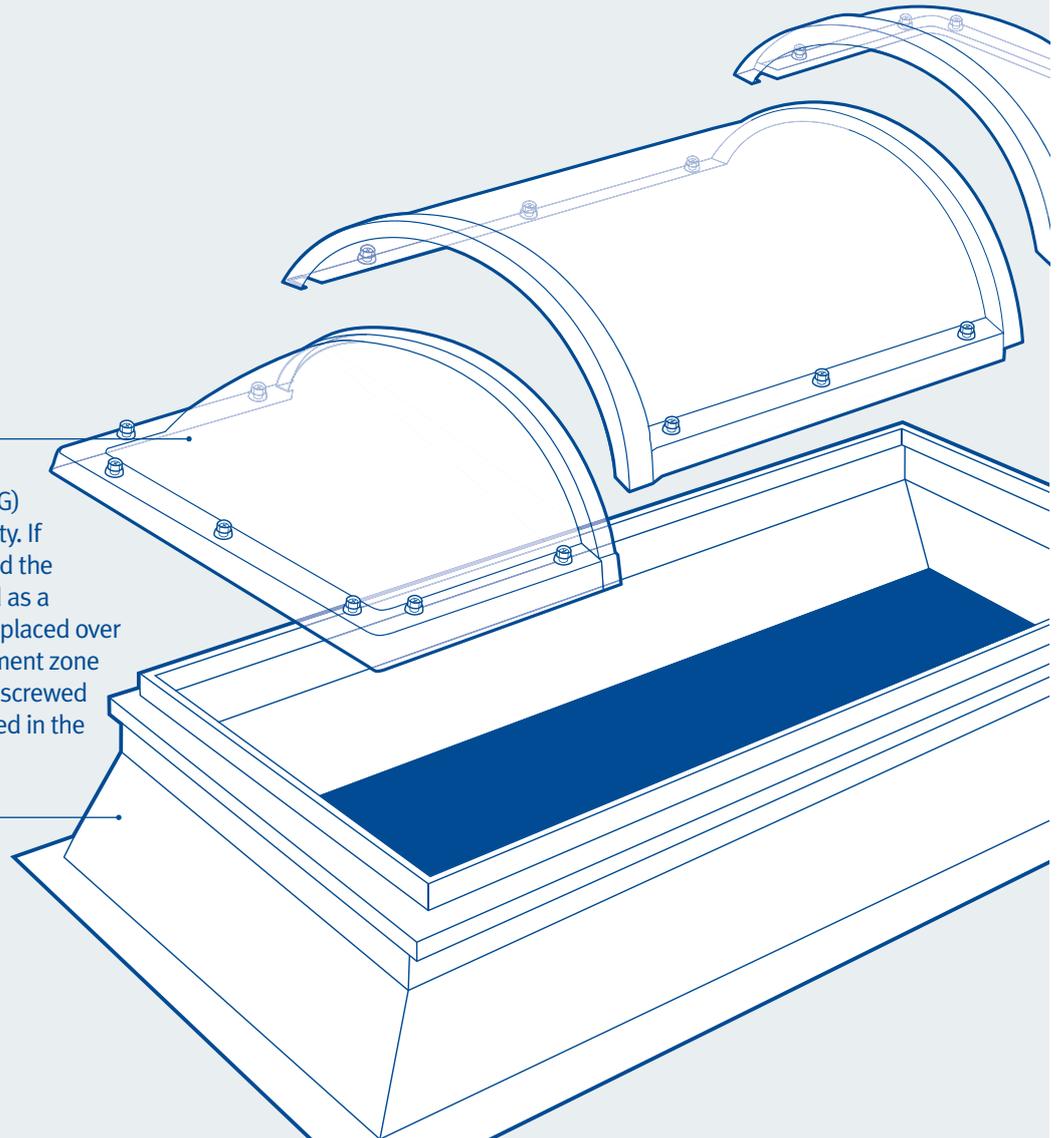
6 Screw the glazing into place using the security screws (SS) provided.



Your Barrel vault rooflight will be supplied in 2 parts;

- ① Glazing zone
- ② Attachment zone

An additional Intruder Grid (IG) is available for greater security. If this option has been specified the Intruder Grid will be supplied as a separate part and should be placed over the roof opening, the attachment zone placed on top and then both screwed to the roof opening as outlined in the installation instructions.



The following pages will outline the installation for all fixing methods. Choose the section which matches your roof type.

Please note the diagram above is exploded for clarity, rooflights are not always supplied split into parts.

Before you begin

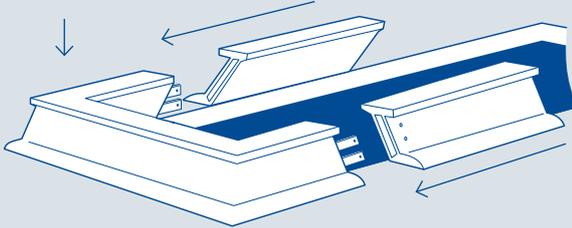
- 1** Remove all packaging from the rooflight apart from the sections which protect the glazing as this will ensure that it doesn't get damaged during the installation process.
- 2** Check that you have the correct accessory fixings, e.g. security screws (SS) and caps if specified.



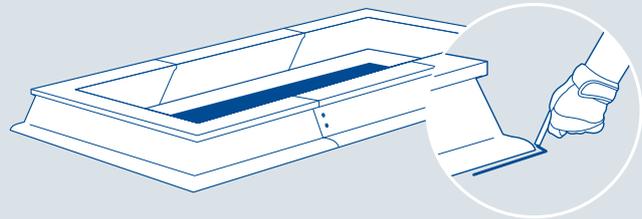
Direct to roof

Fixing method C

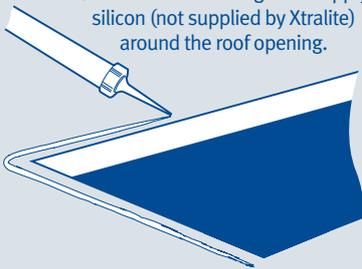
1 Before fixing to the roof, lay out the rooflight to ensure correct positioning. Place the end sections of the rooflight at the ends of the roof opening and then slot in the side sections to fit.



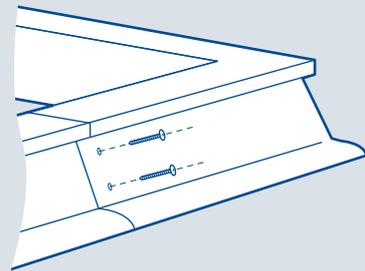
2 When all sections are in place, adjust the position of the rooflight so it sits evenly over the roof opening. Mark the position of the rooflight.



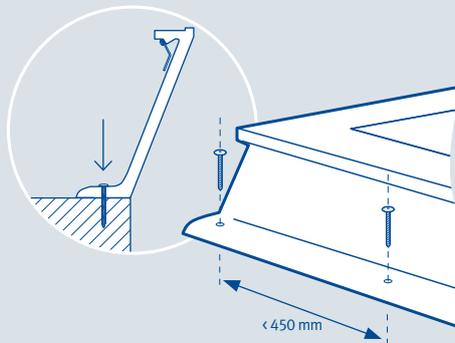
3 Remove the rooflight and apply silicon (not supplied by Xtralite) around the roof opening.



4 Using the marks as a guide, place the attachment zone sections onto the roof opening and then screw the sections together.



5 Screw attachment zone to the roof. Screws should be placed 50 mm from each corner and a maximum of 450 mm centres thereafter.



6 Fix insulation to roof.

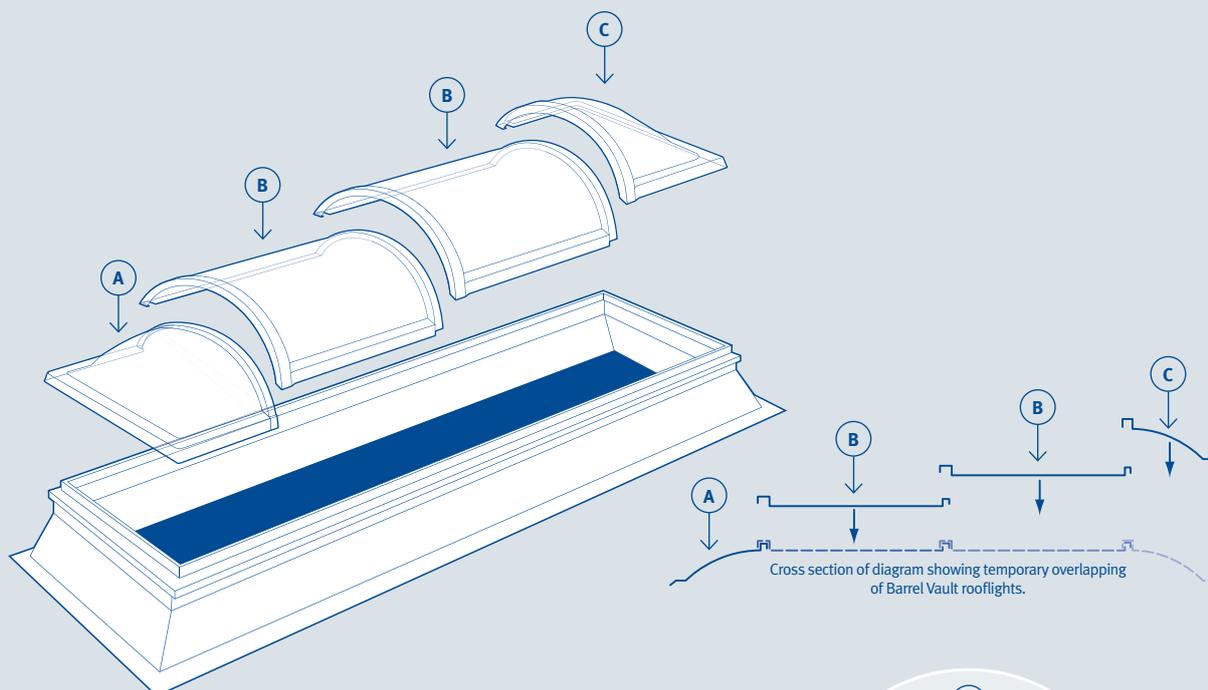


7 Apply roof finish. The method will vary depending on the type of finish. **Please ensure you have read the roof finishing guide earlier in this manual.**

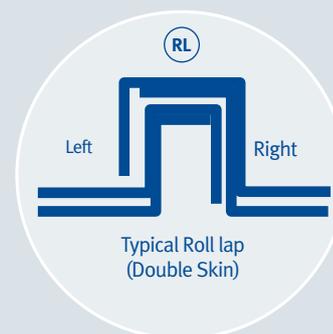
The roof finish should always extend far enough up the side of the rooflight to end underneath the lip of the rooflight.

Direct to roof

Fixing method C



8 Temporarily position the first left hand barrel vault rooflight (A) onto the attachment zone. This section will have a small roll lap on it's right hand side. Working from the left, proceed to place centre sections (B) over each preceding section. (See diagram RL opposite for close up cross section of roll lap). Complete the temporary positioning by placing final section (C) over the final (B) section.



9 When placement is completed, check and adjust spacing to correct fitting requirement. N.B. polycarbonate rooflights have a tendency to spring outwards following factory cooling. These can be pressed inwards when fixing by carefully following the next stage.

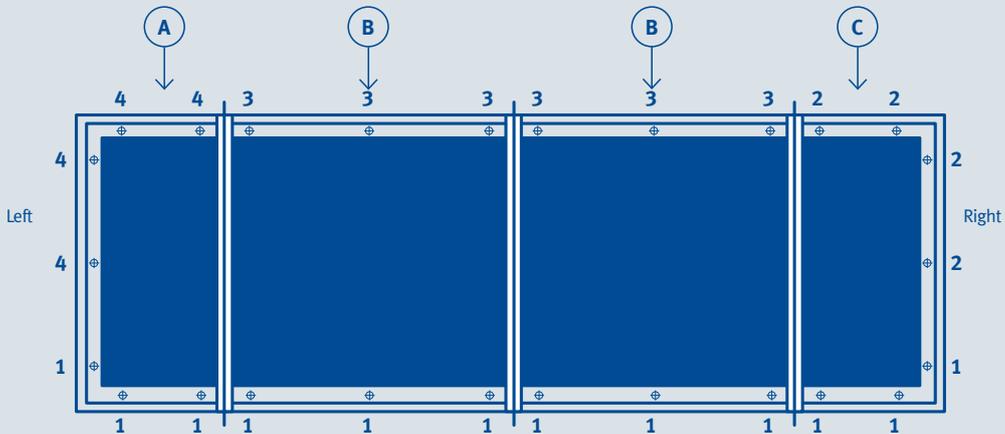
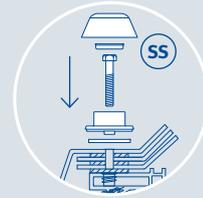
Direct to roof

Fixing method C

10 As previously stated, polycarbonate rooflights have a tendency to spring outwards following factory cooling. The installer **must follow fixing method as listed below**; Once rooflights are positioned on the upstand they may appear too large. In order to adjust rooflights the following must be undertaken in the correct order;

Step 1. Starting from the right hand side of the rooflight, begin fixing at positions marked 1, progressing to the left hand side of the rooflight. Use either security screws (SS) or—if a security frame (SF) has been fitted—clipped into the attachment zone.

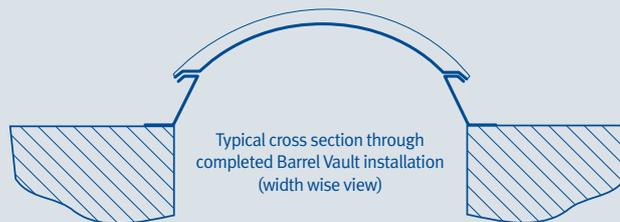
Step 2. Again starting from the right hand side, push end section (C) horizontally towards the fixed side of the rooflight, and fix in positions marked 2 until secure. Continue to fix the centre sections (B) in the same manner from right to left, at positions marked 3. Complete fixing at end section (A) in positions marked 4.



Installation procedure for overlapping of Barrel Vault rooflights final fixing.



Typical cross section through completed Barrel Vault installation (length wise view)

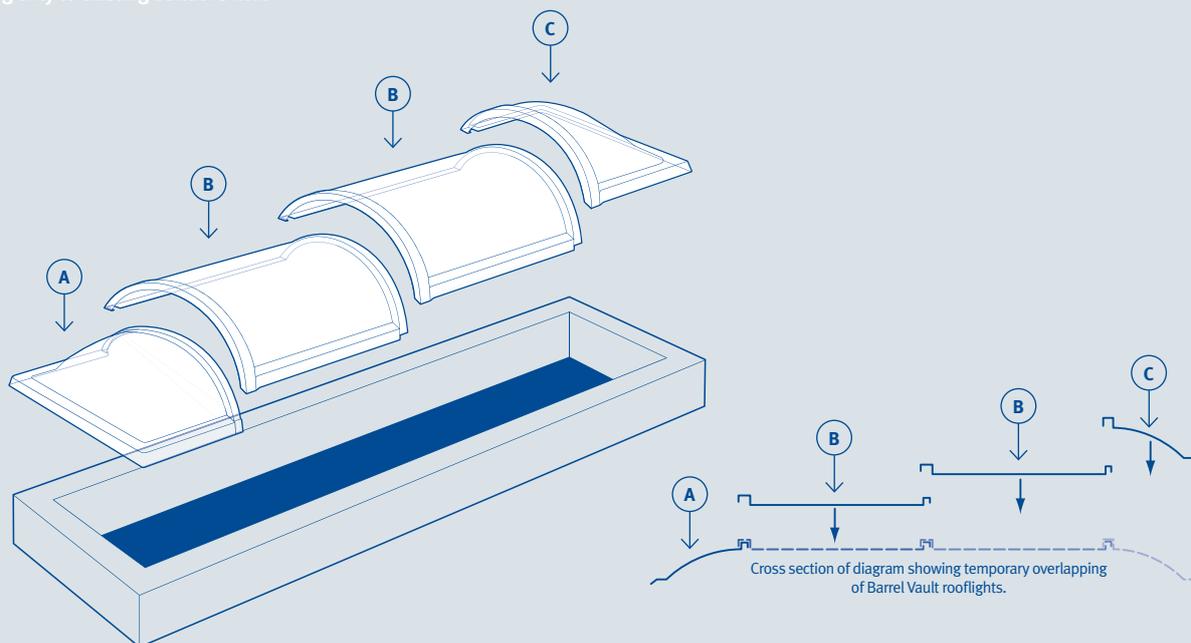


Typical cross section through completed Barrel Vault installation (width wise view)

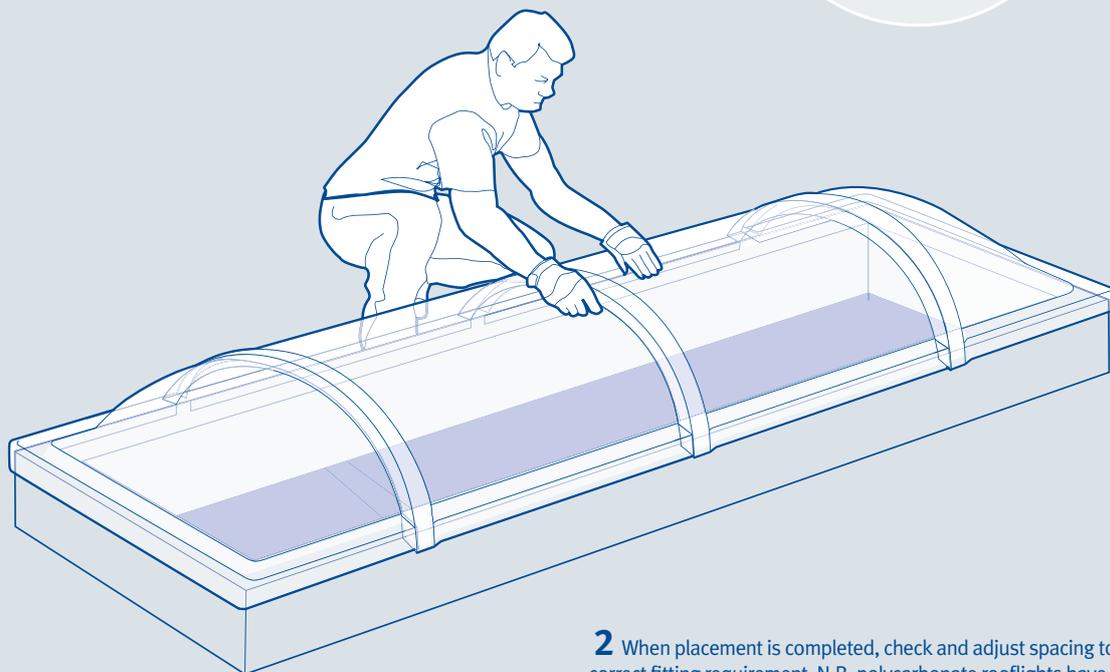
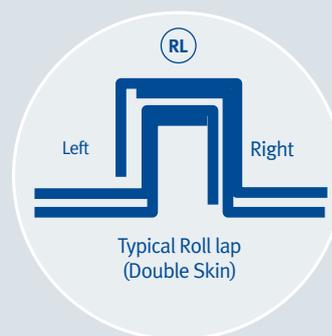
X-Glaze/Barrel vault

Glazing only to existing builder's kerb

Fixing method **D**



1 Temporarily position the first left hand barrel vault rooflight (A) onto existing builder's kerb. This section will have a small roll lap on it's right hand side. Working from the left, proceed to place centre sections (B) over each preceding section. (See diagram RL opposite for close up cross section of roll lap). Complete the temporary positioning by placing final section (C) over the final (B) section.



2 When placement is completed, check and adjust spacing to correct fitting requirement. N.B. polycarbonate rooflights have a tendency to spring outwards following factory cooling. These can be pressed inwards when fixing by carefully following the next stage.



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