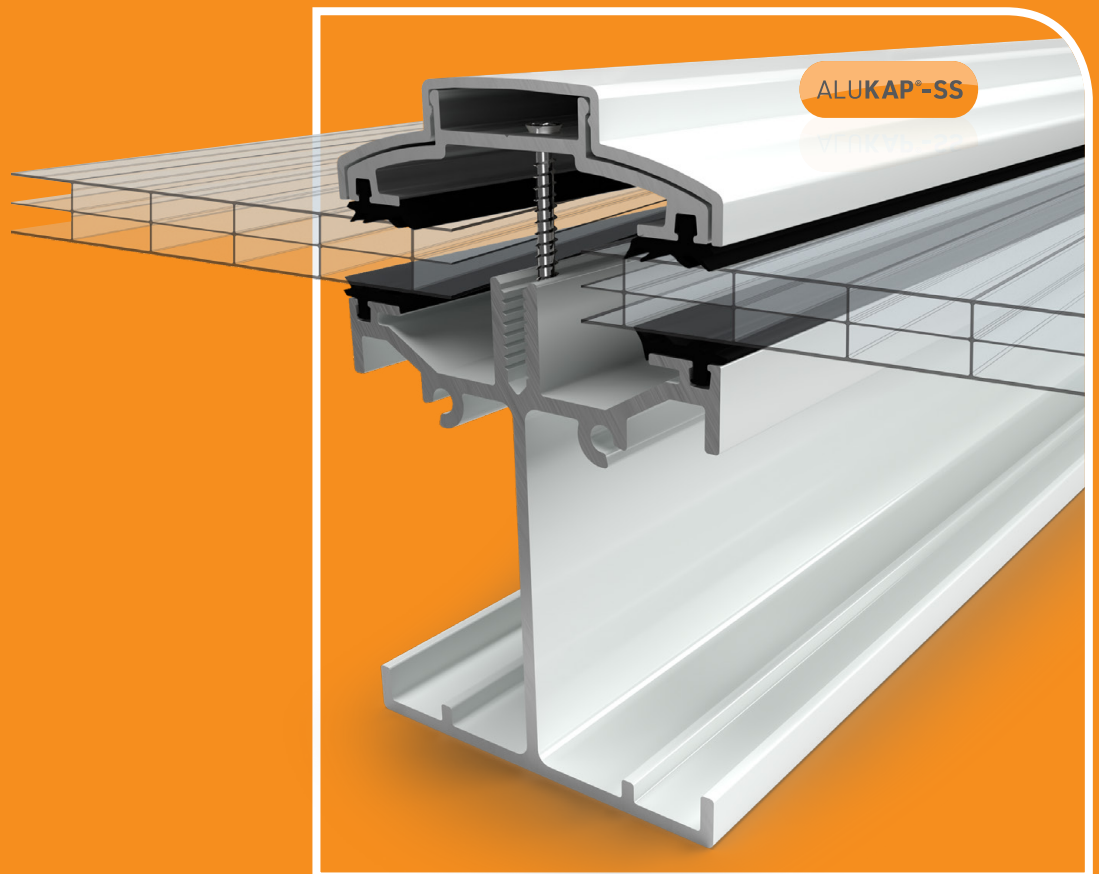


ALUKAP®-SS

## High-Spanning Glazing System Installation Guide



## Your Alukap®-SS System

Whether you are planning your next project using Alukap®-SS, or have just purchased your Alukap®-SS system, this *Installation Guide* provides the information you may require to make the installation of your Alukap®-SS system straightforward. The system is inherently intuitive, however these guidelines will provide an additional layer of support, no matter how complex your project is.

## We Are Here To Support You

We understand that even with comprehensive installation guidelines, there can sometimes be a question that you can't find the answer to, so we're here to help you all the way. Visit [clearambershop.com](http://clearambershop.com) and get in contact with our Help Teams via live chat, phone or email, who will be on hand to assist with any queries you may have.

 [Shop our Alukap®-SS product range here ...](#)

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**IMPORTANT :**

With all aluminium products it is important to always use **STAINLESS STEEL FIXINGS**.



## Alukap®-SS : Products

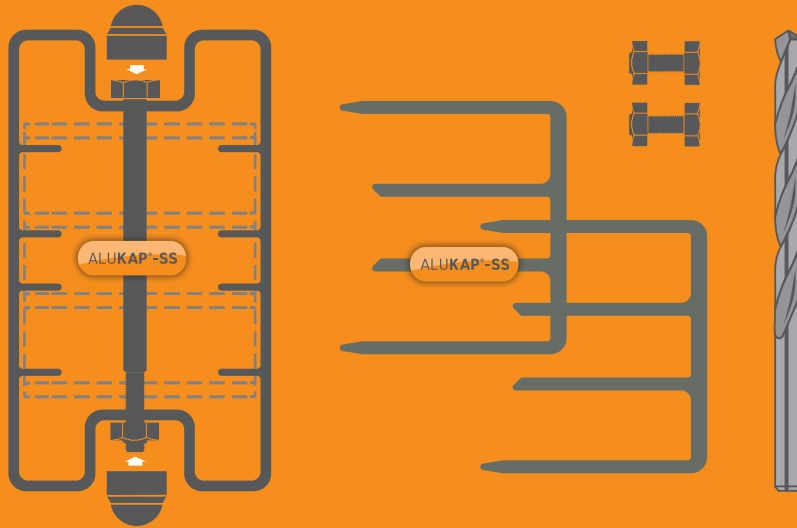
Below is a list of the Alukap®-SS glazing system products and items that are supplied with each bar, most of which you will need for your project.

<p><b>Alukap®-SS Wall Bar with the low-profile base</b></p> <p>ALUKAP®-SS</p>	<p><b>Alukap®-SS 60mm Glazing Bar with the low-profile base</b></p> <p><b>Note :</b> Stainless steel fixing screws are provided if you purchase glazing sheets from us on the same order.</p> <p>ALUKAP®-SS</p>	<p><b>Alukap®-SS Gable Bar with the low-profile base</b></p> <p>ALUKAP®-SS</p>	<p><b>Alukap®-SS high profile base</b></p> <p>ALUKAP®-SS</p>
<p><b>Alukap®-XR End Stop Bar</b> (Available in: 6.4mm, 10mm, 16mm, 25mm, 28mm and 35mm)</p> <p>ALUKAP®-XR</p>	<p><b>Alukap®-SS Wall &amp; Eaves Beam</b> (bar gaskets and top clip included)</p> <p>ALUKAP®-SS</p>	<p><b>Alukap®-SS High Profile L-Cap</b> (bar gasket included)</p> <p><b>Alukap®-SS Low Profile L-Cap</b> (bar gasket included)</p> <p>ALUKAP®-SS</p>	
<p><b>Glazing Bar End Cap</b></p> <p>ALUKAP®</p>	<p><b>Alukap®-SS Wall &amp; Eaves Beam End Caps</b></p> <p>&lt; Left hand      Right hand &gt;</p>		<p><b>Alukap®-SS M6 Bolts and Nuts</b> (Supplied with each Alukap®-SS glazing bar profile)</p>

## Alukap®-SS : Products (continued)

### Alukap®-SS Wall & Eaves Beam Post

(2 x long bolts, 4 bolt end caps, 2 x small bolts and 1 x 8mm drill bit included)



**Post**  
(plan view showing the long bolts and end caps)

**Fixing Brackets**  
(side view)

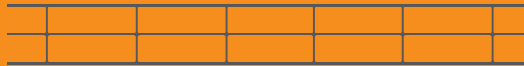
### Alukap®-SS Top Wall Flashing



### Glazing Sheets:

#### Axiome® Multiwall Polycarbonate Sheets

(Available in 10mm, 16mm, 25mm and 35mm)



#### Axgard® Solid Glazing Sheets

(Available in 4mm, 5mm, 6mm, 8mm, 10mm and 12mm)



#### Glass (all thicknesses)

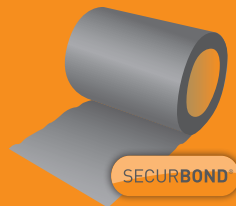


### Anti-Dust Breather Tape



\*Optional item

### Securbond® Flashing Tape



### Securbond® Silicone LMN Sealant



### Tools required



Wear protective gloves, glasses and ear protectors where appropriate.



Tape measure and fine toothed bladed chop saw

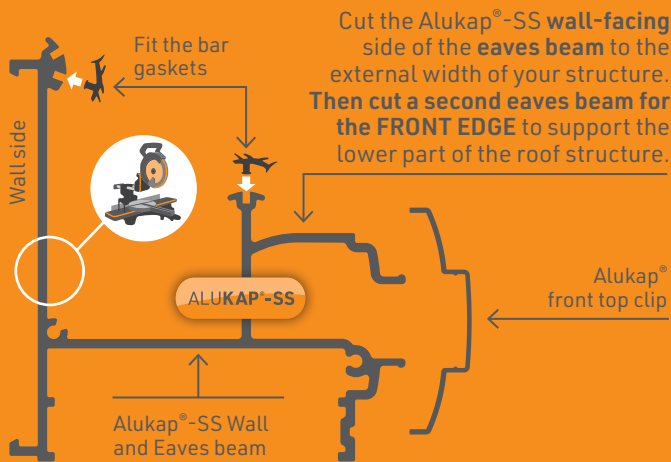


Cordless screwdriver/drill, Philips headed screwdriver, soft rubber mallet, a straight edge tool and Securbond® sealant plus a sealant gun.

# Alukap®-SS : Installation Guide

**IMPORTANT :** Please ensure you take all necessary safety precautions and checks before working at a height. Wear protective goggles and clothing when cutting the aluminium products.

## 1 Measure and cut TWO Alukap®-SS Wall and Eaves beams



### FOR LONGER SPANS OR HEAVY LOADS:

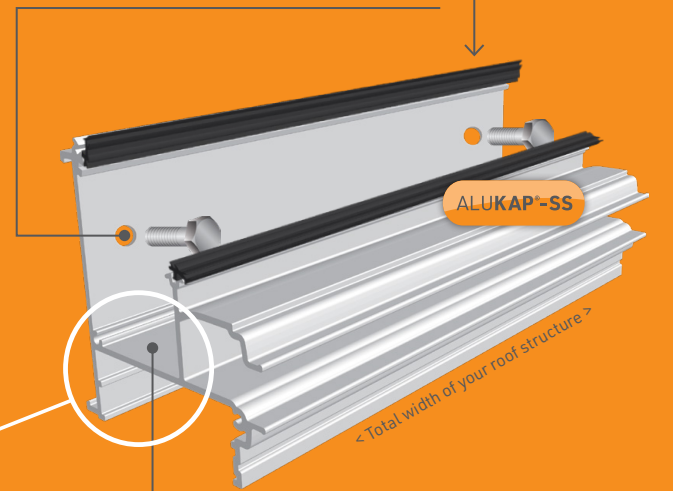
For longer spans and / or heavier loading we recommend installing posts below the wall beam for additional support.

**NOTE:** Refer to point 3 below for fitting details.



## 2 Prepare the Alukap®-SS Wall and Eaves Beam

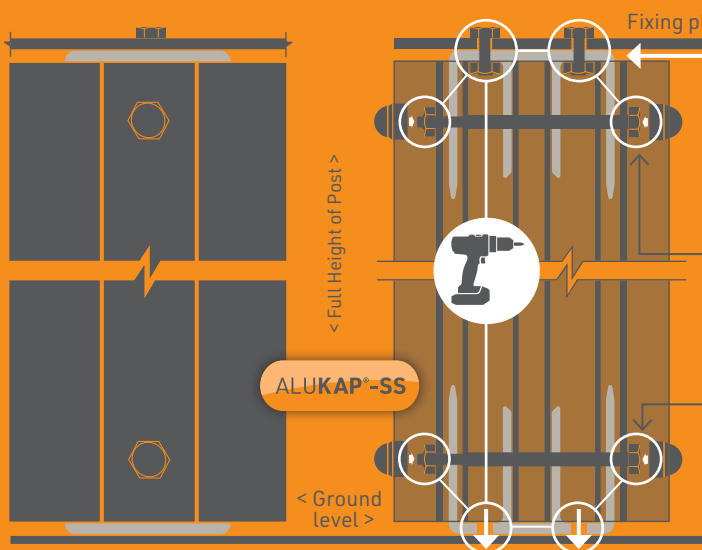
Drill holes at regular intervals of 250mm in the back plate of the Alukap®-SS eaves beam, then screw it securely in place using suitable fixings for the wall (see the disclaimer below).



Fixing plate for the Alukap®-SS Wall & Eaves beam: Attach the four-pronged fixing bracket.

Inasmuch as Clear Amber have no control over the circumstances in which our material may be used, or site specific parameters, we cannot guarantee that any particular results will be achieved. Users should carry out their own tests to determine the suitability of the material for their application. Installers should satisfy themselves that published permissible loadings and bar spacings for Alukap®-SS structures, together with any supporting posts, frames, or walls and fixings, are sufficient to provide adequate strength for the intended use and to meet regional loading requirements. **Installers should also obtain their own job-specific structural engineer's report for their individual site.** Samples are readily available to users to test and verify the exact sizes according to their site requirements.

## 3 Position and install the Alukap®-SS Post and Fixing Brackets



Post - side elevation

Internal view showing the four-pronged fixing bracket

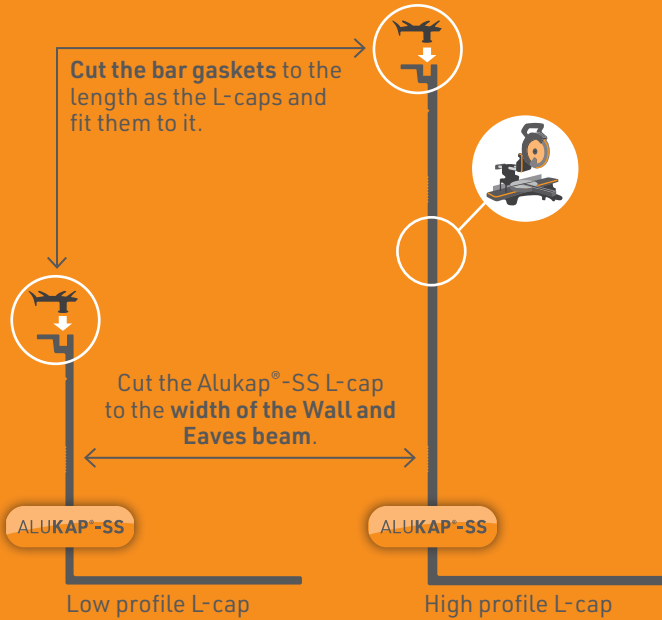
2. Drill two holes through the four-pronged top bracket, then insert the two small bolts without tightening them. Place the bracket into place on top of the Alukap®-SS Post. Drill holes in the same positions in the flat fixing plate of the Alukap®-SS Wall and Eaves beam, then tighten the bolts securely.

3. Drill a hole straight through the upper and lower Post and Bracket to accommodate the long bolts provided, securing the post and brackets to the post from uplift. The nuts and the heads of the bolts should be fixed through the side of the post, so that they are concealed within the recessed side channels.

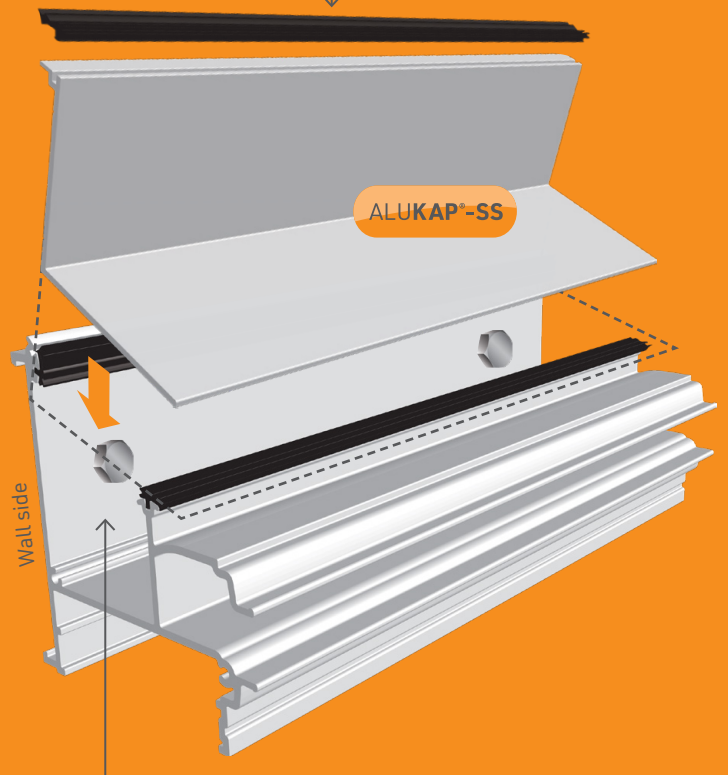
1. Drill two fixing holes through the lower four-pronged fixing bracket. The fixing bracket is bolted in the ground/floor using suitable fixings supplied by the installer to create a strong and firm base. The post slots on top of the installed bracket.



## 4 Measure and cut TWO Alukap®-SS low or high profile L-caps



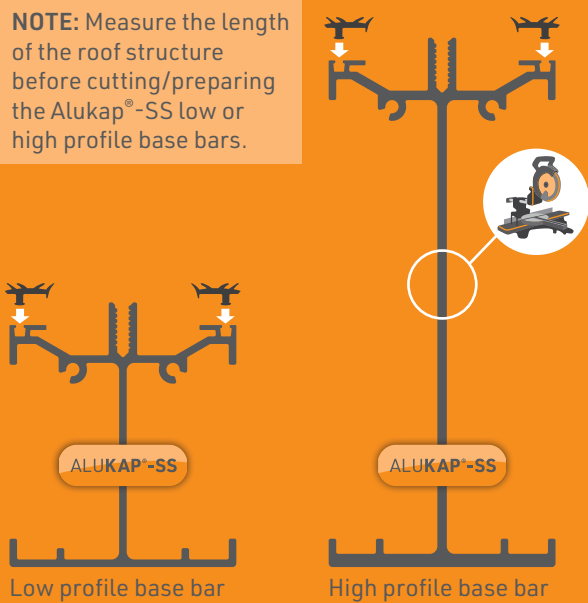
Fit the bar gasket into the groove of the Alukap®-SS L-cap.



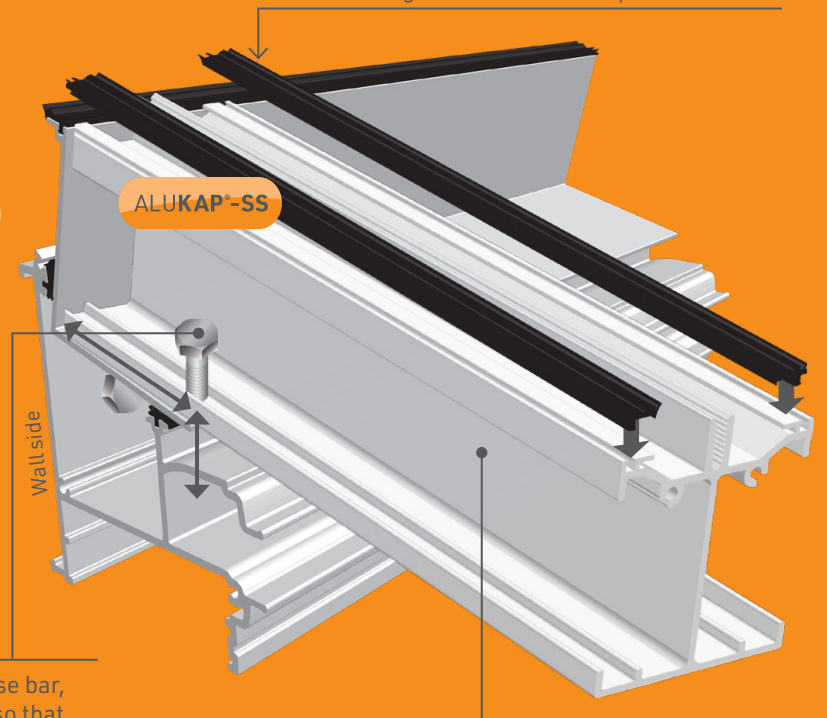
The Alukap®-SS L-cap is placed on the two bar gaskets of the wall and eaves beam before continuing onto the next stage.

## 5 Measure and CUT THE FIRST Alukap®-SS low or high profile bar

**NOTE:** Measure the length of the roof structure before cutting/preparing the Alukap®-SS low or high profile base bars.



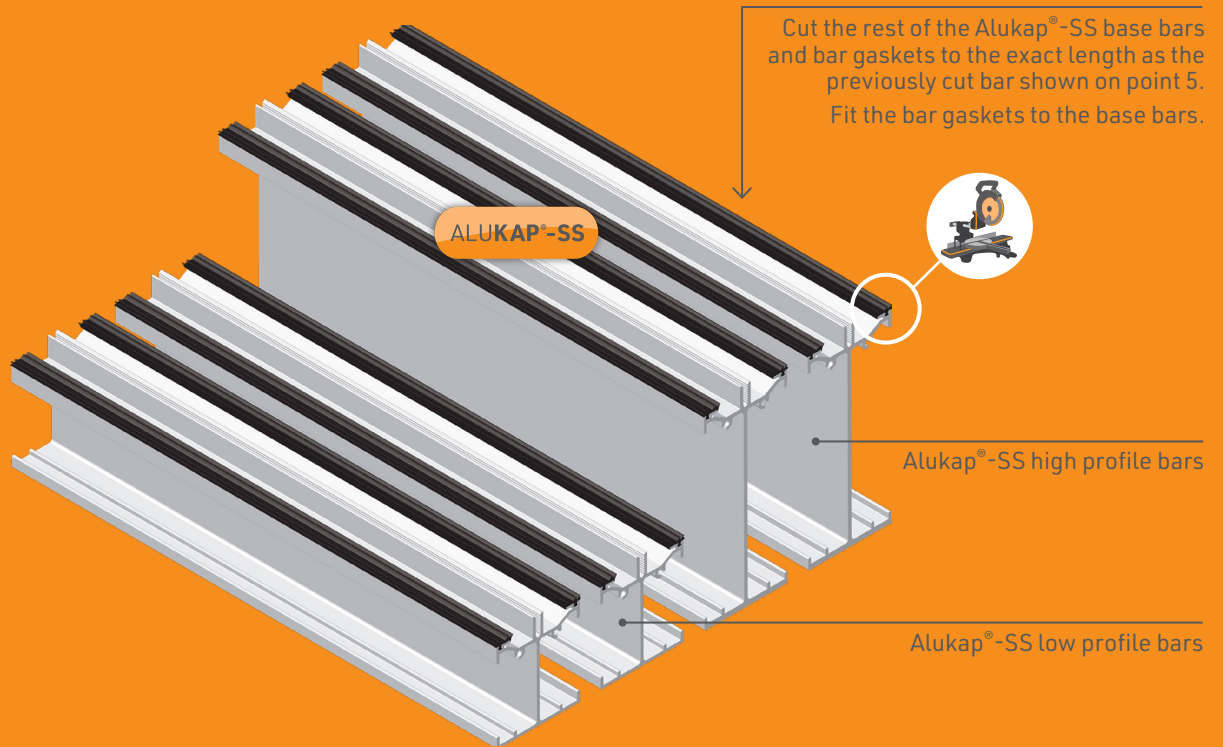
Measure and fit the bar gaskets into grooves of the Alukap®-SS base bar.



Cut the first Alukap®-SS low or high profile base bar to the correct length and pitch required to allow it to sit on the two upper and lower Alukap®-SS L-caps, wall and eaves beams and the front supporting posts.

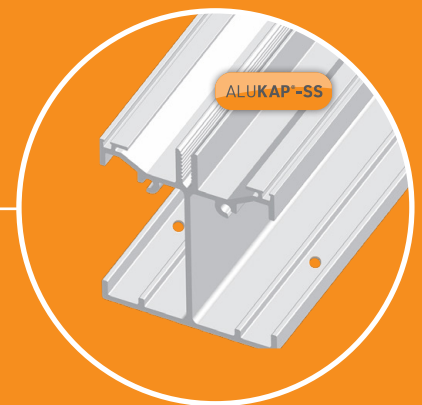
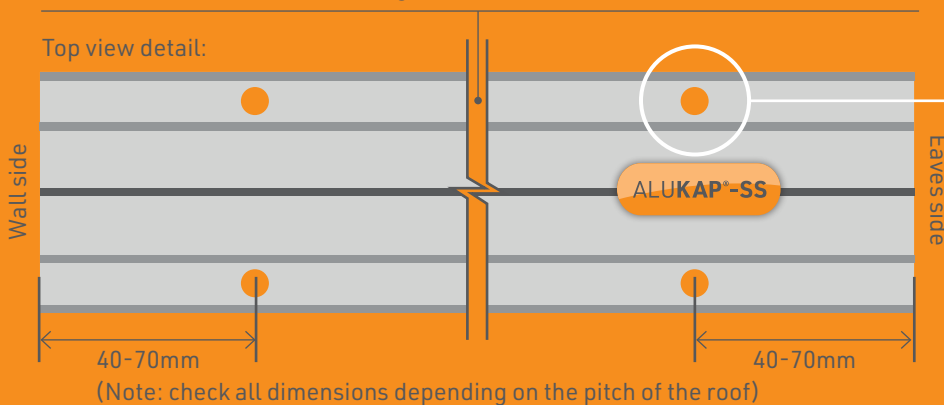
Measure the bolt fixing position on both sides of the base bar, starting from the edge of the Alukap®-SS base profile, so that you can drill a 7mm hole through the base bar and through the flange of the Alukap®-SS Wall and Eaves beam fixing plate, in order to secure the bolt. This distance will vary between 40mm and 70mm depending on the pitch.

## 6 Measure and CUT all the required Alukap®-SS low or high profile bars



## 7 Measure and Drill the Fixing Holes in all the Cut Alukap®-SS Low or High Profile Base Bars

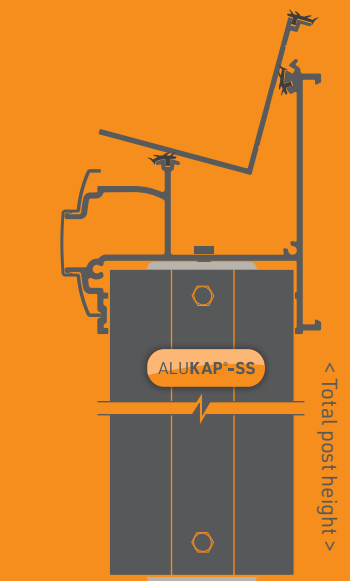
Use the measurements taken for the bolt fixing positions on the wall and eaves side of the first Alukap®-SS base bar (step 5), turn over the remaining Alukap®-SS base bars and drill the same holes using a 7mm drill bit.



## 8 Measure and install the Alukap-SS Wall & Eaves beams onto the post

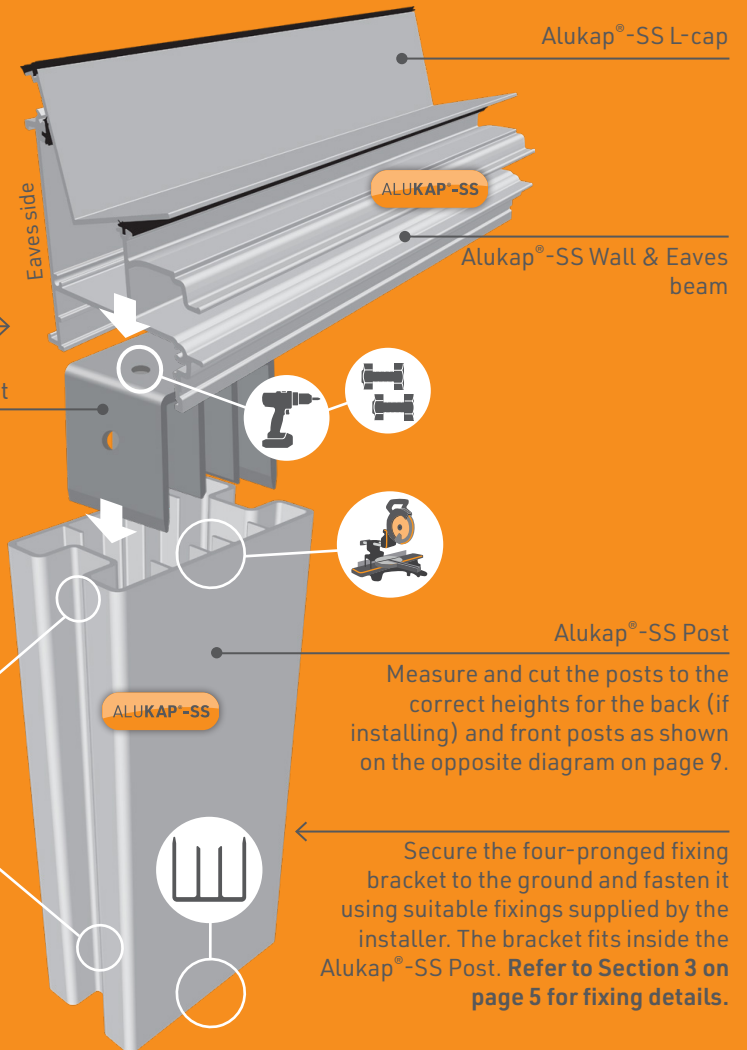
**IMPORTANT:** Prepare the ground/floor surface to support the weight of the Alukap®-SS roof. **Consult with a Structural Engineer** before starting to build the roof structure (refer to page 5).

Turn the Alukap®-SS Wall and Eaves beam around so that the flat surface is facing forward. Refer to the information and diagram below showing how the Aluflow® aluminium gutter system fits on to the flat frame sided surface.



Alukap®-SS eaves detail diagram

Alukap®-SS Post Bracket



Alukap®-SS L-cap

ALUKAP®-SS

Alukap®-SS Wall & Eaves beam

Alukap®-SS Post

Measure and cut the posts to the correct heights for the back (if installing) and front posts as shown on the opposite diagram on page 9.

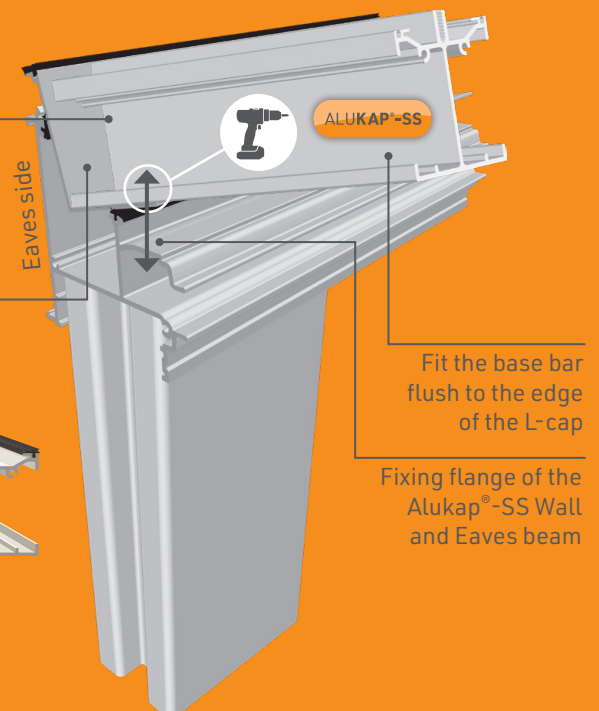
Secure the four-pronged fixing bracket to the ground and fasten it using suitable fixings supplied by the installer. The bracket fits inside the Alukap®-SS Post. Refer to **Section 3** on page 5 for fixing details.

## 9 Position all the Alukap-SS prepared base bars

Position the pre-drilled Alukap®-SS base bars along the Alukap®-SS L/cap that sits on the Wall and Eaves beam, **drill corresponding 7mm holes through the Alukap®-SS base bar / L-cap and through the bolt flange of the Alukap®-SS Wall and Eaves beam.**



Low profile L-cap

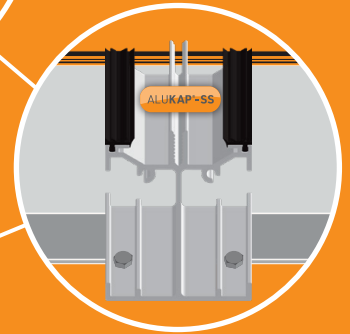
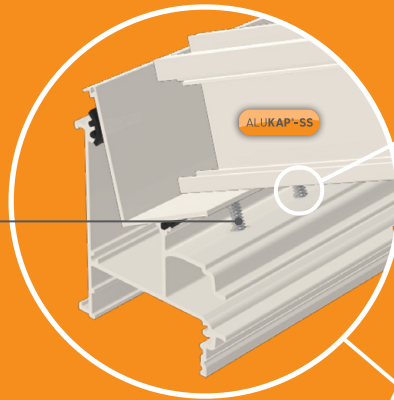
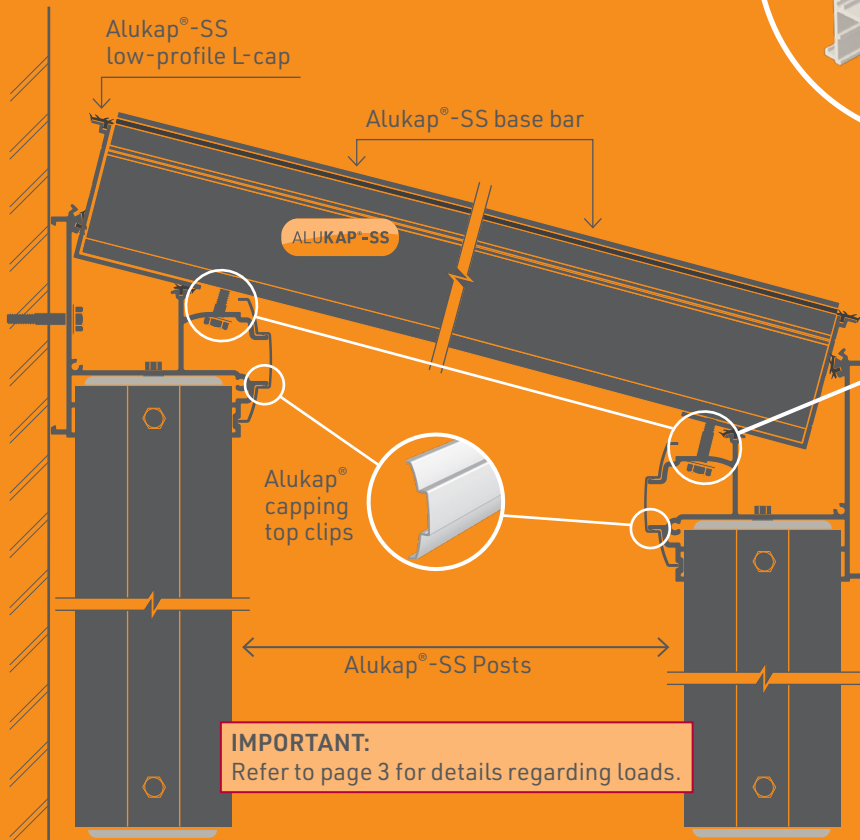


Fit the base bar flush to the edge of the L-cap

Fixing flange of the Alukap®-SS Wall and Eaves beam

# 10 Bolt the Alukap®-SS base bars onto the Alukap®-SS Wall and Eaves beams

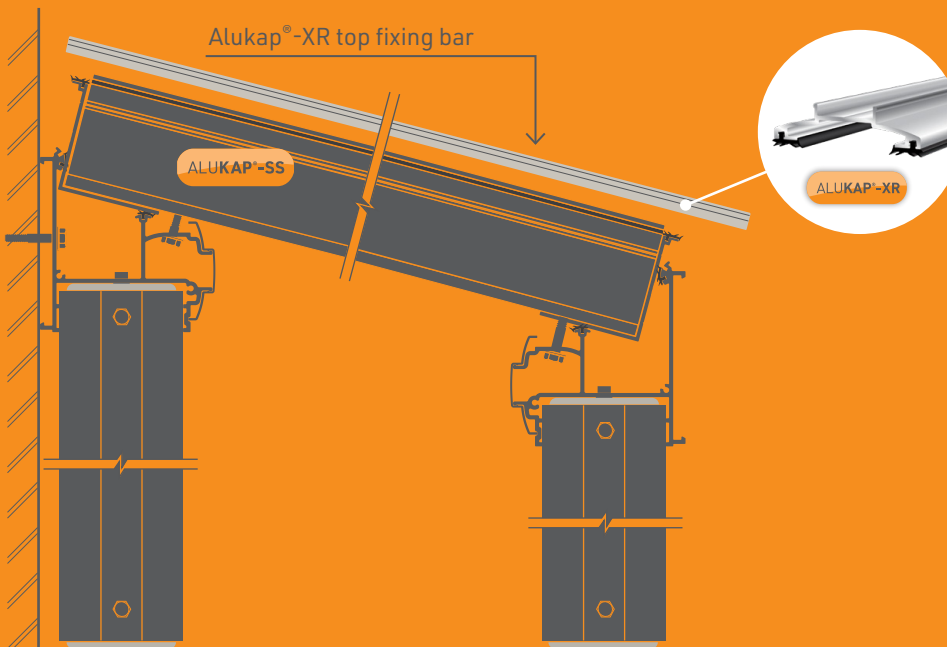
Insert the 6mm M6 bolts through both sides of each bar, at the top and bottom, then loosely insert the M6 nuts onto the four M6 bolts for each Alukap®-SS span base bars. Once you are sure that the everything is correctly positioned, tighten the nuts.



Once all the Alukap®-SS base bars have been fully installed, snap the Alukap® top covers into place to finish the job and conceal all the fixings for the Alukap®-SS Wall and Eaves beams.



# 11 Prepare the Alukap®-XR top fixing bars before installation of the glazing

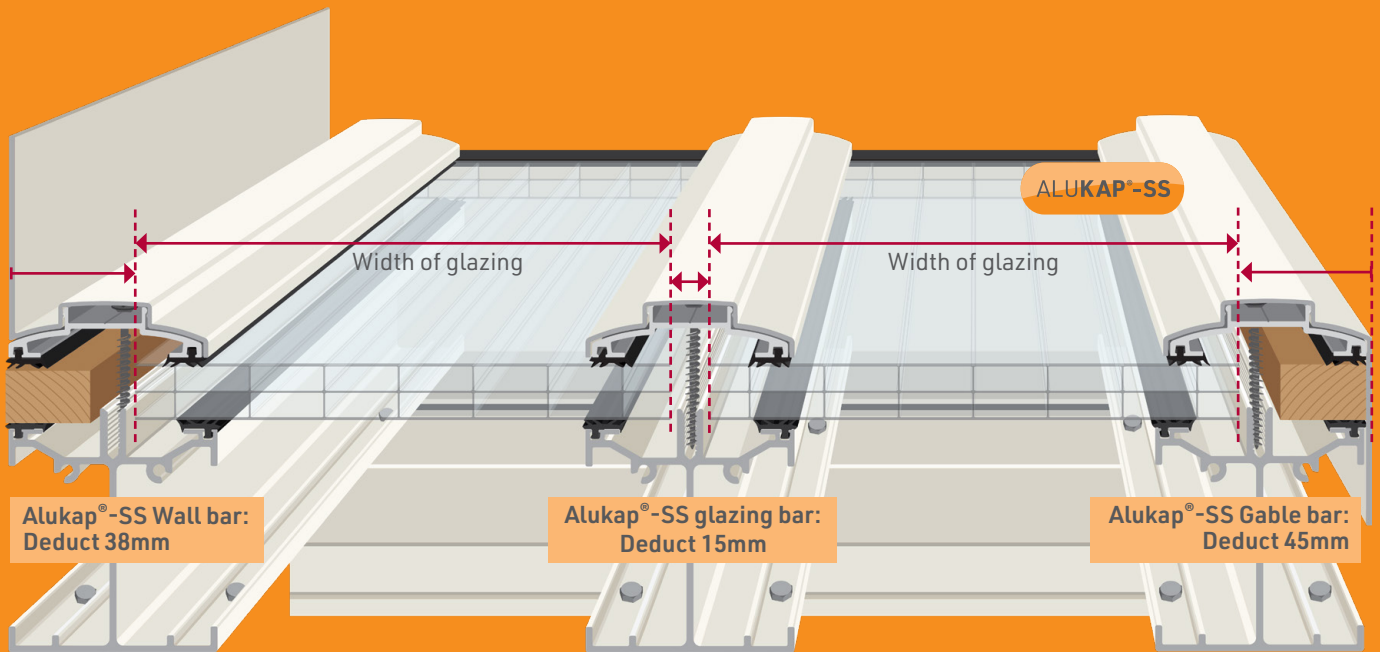


**Measure** and cut the required lengths of the Alukap®-XR top fixing bars **allowing for an overhang into the gutter and the continuation at the wall side up to the wall abutment.**

Carefully **insert** the thin bar gasket **into the grooves** on the aluminium base **ensuring that the gasket matches the contours.**



# 12 Alukap®-SS Glazing Deductions



## Alukap®-SS Glazing Deductions:

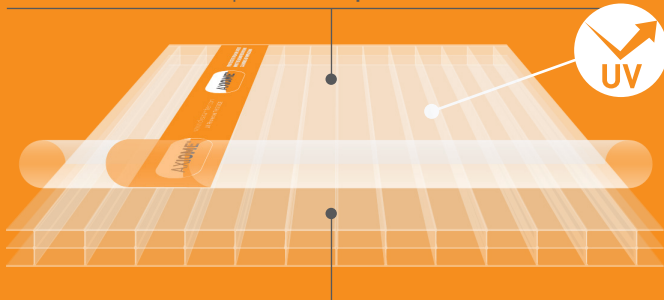
These glazing bars deductions are a guide only and may need to be amended depending on chosen glazing materials. The Alukap®-SS self-supporting system is suitable for any thickness or type of glazing, including Axiome® Solid sheets, Axiome® Polycarbonate and glass.

**IMPORTANT** – Store the Axiome® sheets in a **clean, dry area** to prevent moisture getting into the flutes.

Where applicable, install the **Alukap®-XR End Stop bar** to the edge of the glazing material which works with Alukap®-SS glazing bars to create a frame that seals the glazing material and reduce any risk of slippage.

# 13 Prepare the Axiome® sheets before installation

There is a **protective film on both sides** of the Axiome® sheet. The Axiome® branded tape side is **UV protected**.



Make sure you are working in a **clean, dry area**, then **pull back the protective film by about 100mm** from the open edge on both sides, taking care not to scratch the surface.

**▶ Video : How 2 cut Axiome polycarbonate roofing sheets**

# 14 Apply the Anti-Dust Breather Tape to the Axiome® sheets

**IMPORTANT** – All adhesives suffer reduced initial bonding strength in cold conditions – **avoid applying tape below 5°C**.

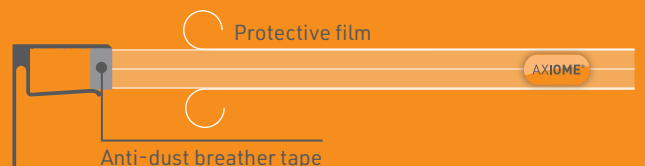


Apply the **Alukap®-XR anti-dust breather tape** to the top surface of the Axiome® sheet, forming a straight line from one edge to the other, then wrap the tape around the sheet and secure it to the underside. If necessary, **join the tape mid-panel**, ensure a **minimum 25mm overlap**.

# 15 Apply the Alukap®-XR End Stop bar to the Axiome® sheets

The Alukap®-XR End Stop Bar seals the glazing sheet and reduces the risk of slippage.

Cut the end stop bars to the width of each **Axiome® sheet**, then **push-fit them partway ONLY** so that the **open end** just covers the glazing sheet by about **10-15mm**.



**▶ Video : How 2 tape polycarbonate roofing sheets**

# 16

Apply the **Securbond® Sealant**



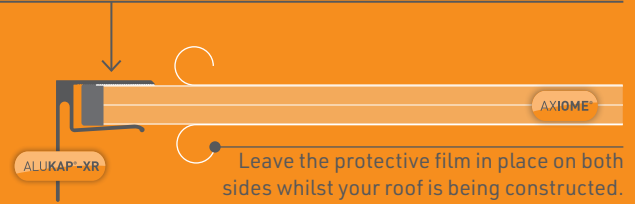
Run a thin, consistent bead of **Securbond® sealant** along the edge of the **end stop bar** and **anti-dust breather tape**.



# 17

**Final step** in installing the Alukap®-XR End Stop Bar

**PUSH** the Alukap®-XR End Stop bar **FULLY** into place, so that its front edge slides over the **bead of Securbond® sealant**, thereby creating a seal that prevents any capillary action.



# 18

Place the **FIRST** glazing panel onto the Alukap®-SS base bars

Add a packer to the upper outer edge of the Alukap®-SS base bars (see note below).

The batten width is **12mm** and height (x) equates to the **glazing thickness plus 2mm**.

Ensure that Alukap®-XR End Stop bar is fitted to the lower end of the glazing material.

Alukap®-SS low profile L-cap

Alukap®-SS low profile base bar



# 19

Fit the **FIRST** Alukap®-SS mill base bar

Refer to Step 11 for the prepared Alukap®-SS top fixing bar.

Secure the first Alukap®-SS top fixing bar to the first Alukap®-SS base bar using stainless steel screws to suit the glazing thickness. Take care not to overtighten the screws, whilst ensuring that the gaskets provide a uniform seal with the glazing. The recommended tightening torque for standard screws in Alukap®-SS profiles is, in most cases, 6 to 7.

Screw fixings into every pre-drilled hole.



## 20 Continue working along the roof and install the next glazing panel

Position the next glazing panel and repeat the procedure to install the next Alukap®-SS intermediate top fixing bar between the first and second glazing panels. Then continue along the rest of the roof until all the glazing panels are secured.

Keep the film on the Axiome® sheets



## 21 Repeat the process and finish securing the glazing panels to the roof

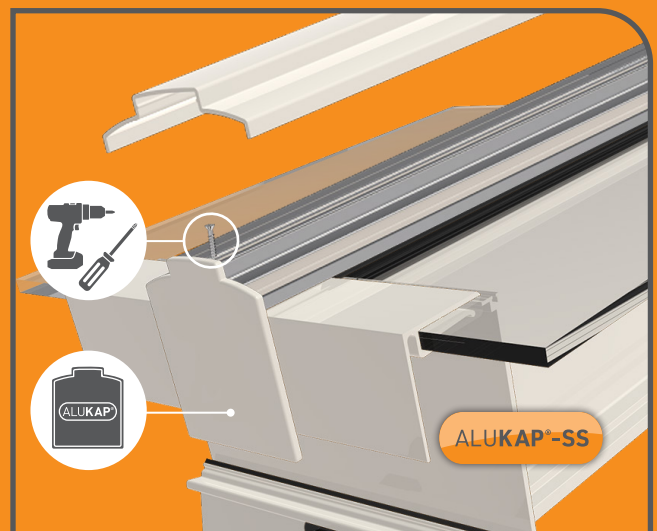


## 22 Fit the Alukap® End Cap to the front of each fixing bar

Place the **glazing bar end cap** on the edge of the fixing bar and **mark where to drill a 2.5mm hole** to accommodate the small fixing screw provided. Secure the Alukap® End Cap onto the fixing bar. It is recommended that this covers the Alukap®-XR End Stop bar, which is fitted onto the glazing material.

### NOTE:

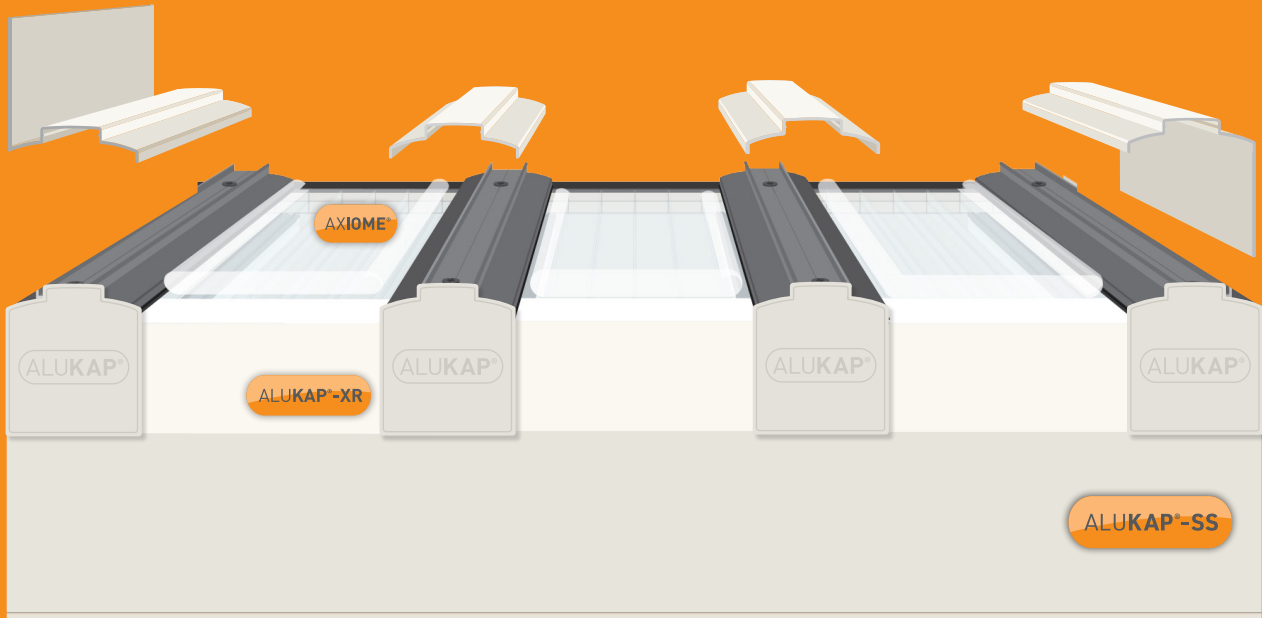
Make **additional seals with Securbond® LMN Silicone Sealant** as required where the Alukap®-XR base bar makes any abutments or connections to Wall, Glazing or Gable bars.



## 23

Cut the Alukap®-SS Top Clips to finish the roof

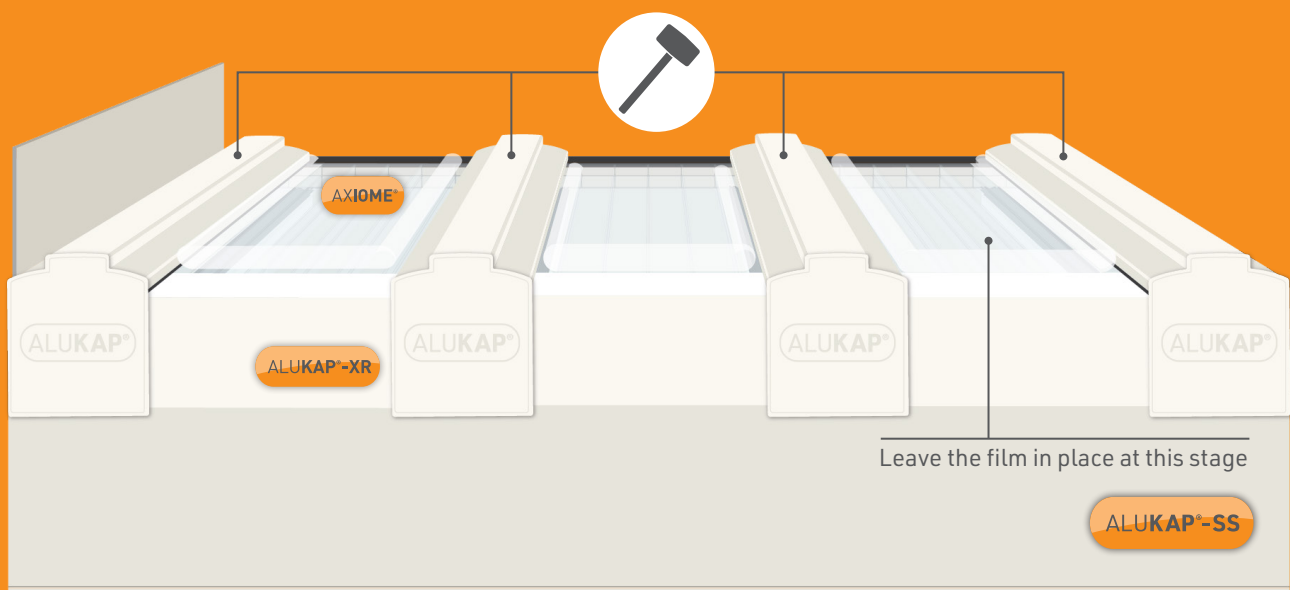
Cut the Alukap®-SS Top Clips to the same length as the bottom fixing bars to achieve a perfect, attractive finish for your roof. For gable or wall connections, use the top clips from the Alukap®-SS Gable or Wall profiles.



## 24

Snap the Alukap®-SS Top Clips onto the bottom fixing profiles

**Snap** the Alukap®-SS top clips onto the Alukap®-SS bottom fixing bars along the entire length of the bar. **Use a rubber- or plastic-headed hammer** for this and avoid heavy blows so as not to damage the Alukap®-SS bars or the glazing materials.



# 25

Finishing the rear edge of the lean-to roof - fit the Alukap®-SS Top Wall Flashing

Seal the back by applying Securbond® Silicone



Measure and cut the Alukap®-SS Top Wall Flashing and the Foam Gasket to the full width of the roof. Insert the foam gasket into the fixing groove of the top wall flashing, then place both components on your roof and mark the position of each profile on the foam seal.

Next, cut a notch to match the profile of the glazing bar so that the foam gasket lies flat against the Axiome® panels and covers each glazing bar. You can also apply pressure to compress the foam gasket to ensure it adheres properly to the Axiome® panels.

Press the Alukap®-SS Top Wall Flashing and Gasket into place, then secure them to the wall using suitable stainless steel screws.



ALUKAP®-SS

 Video : How 2 Install Top Wall Flashing

# 26

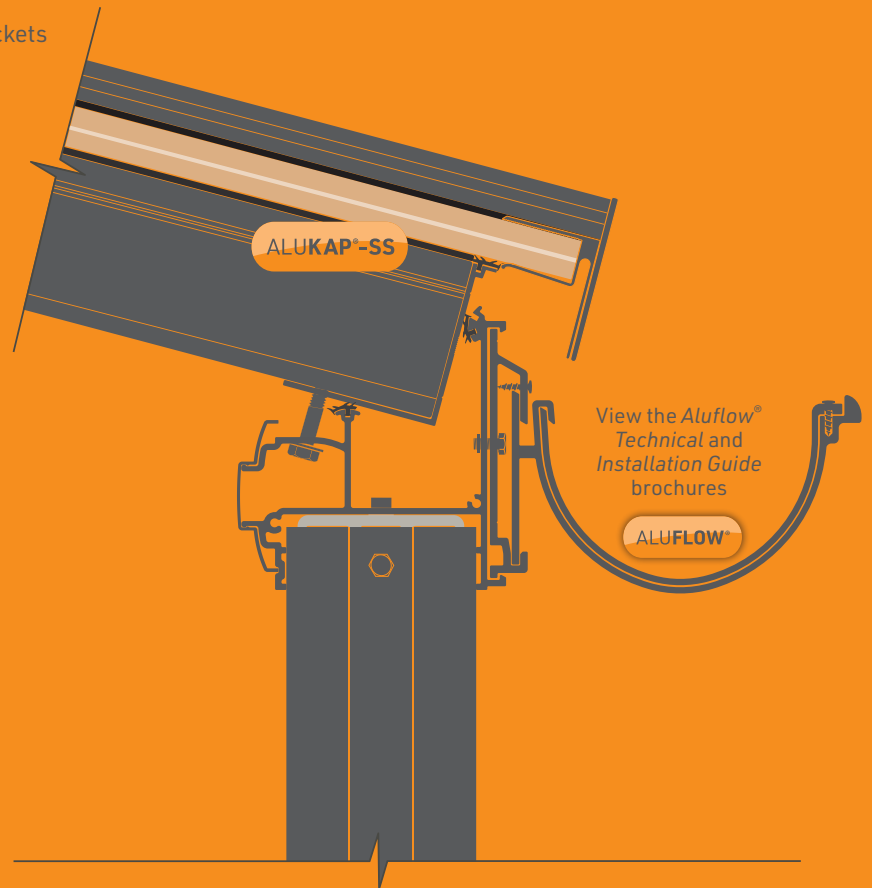
Attach the left and right Alukap®-SS End Caps to both ends of the Alukap®-SS Wall and Eaves beams to complete the roof



## 27

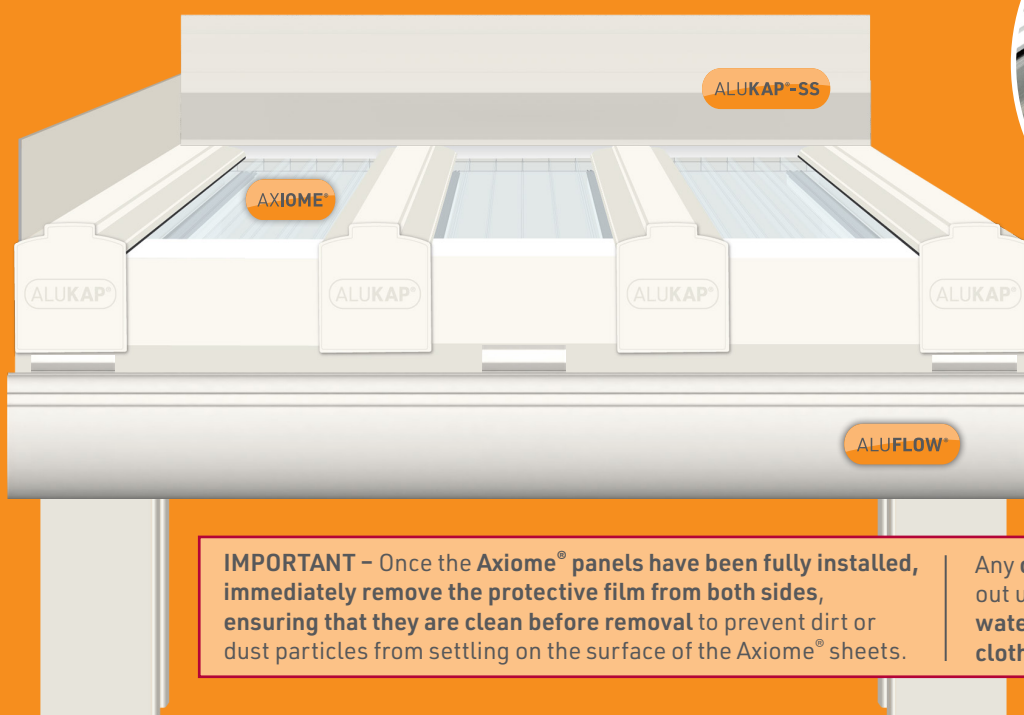
Install the Aluflow® aluminium gutter brackets

Fit the Aluflow® gutter brackets to the front face of the Alukap®-SS Wall and Eaves beam, then install the rest of the Aluflow® aluminium guttering system. Please refer to the *Aluflow® Installation Guide* for full details.



## 28

Clean the Axiome® sheets before removing the protective film on both sides



**IMPORTANT** - Once the Axiome® panels have been fully installed, immediately remove the protective film from both sides, ensuring that they are clean before removal to prevent dirt or dust particles from settling on the surface of the Axiome® sheets.

Any cleaning must be carried out using plenty of clean soapy water and a soft, non-abrasive cloth.

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## WARNING : REGISTERED DESIGNS & PATENTS

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