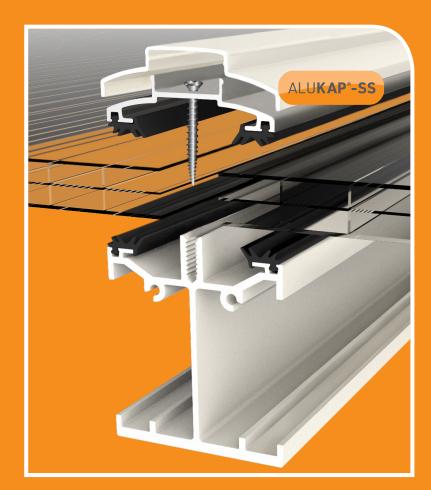


## High-Spanning Glazing System Installation Guide





### Your ALUKAP<sup>®</sup>-SS System

Whether you are planning your next project using ALUKAP<sup>®</sup>-SS, or have just purchased your ALUKAP<sup>®</sup>-SS system, this *Installation Guide* provides the information you may require to make the installation of your ALUKAP<sup>®</sup>-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

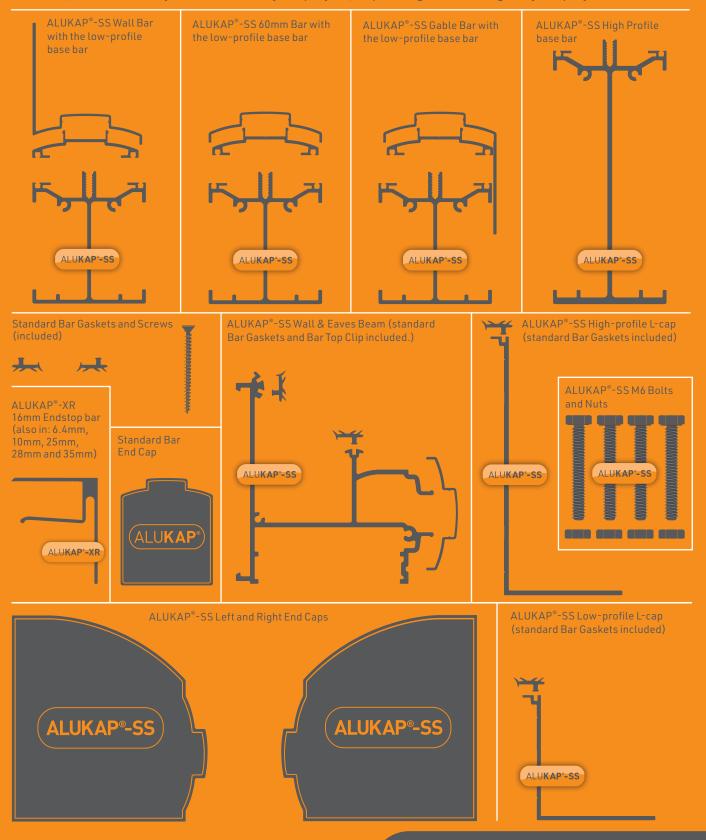
We understand that even with comprehensive Installation Guidelines, there can sometimes be a question that you can't find the answer to, so we're here to help you all the way. Visit **www.clearamber.com** and get in contact with our Help Teams via live chat, phone or email, who will be on hand to assist with any queries you may have.

### Index:

Part 1 : ALUKAP <sup>®</sup> -SS Bar Parts https://www.clearamber.com/browse/tc-ALUKAP_SS-212/	3
ALUKAP <sup>®</sup> -SS : Bar and Glazing Installation Guide	5
Wall and Eaves Beam	. 5
New Improved Post and Bracket System	5
L-Cap Bars	6
First Low or High Profile Bars	. 6
Position the Low and High Profile Bars	. 7
Measure and Cut all the Required Low or High Profile Bars	. 7
Measure and Drill the Bolt Fixing Holes	. 8
Measure and Cut the New Post System	. 8
Position all the Pre-drilled Span Bars	. 9
Bolt the Span Bars to the Wall and Eaves Beam	. 9
Prepare the Base Bars Top Caps	. 10
Prepare the AXIOME <sup>®</sup> Sheets Before Installation	. 10
Fit the ALUKAP <sup>®</sup> -XR Endstop Bars to the AXIOME <sup>®</sup> sheets	11
Offer up the First Glazing Panel to the Base Bars	11
Offer up the other Glazing Panels to the Base Bars	. 12
Prepare and Install the ALUKAP <sup>®</sup> -XR End Caps	12
Cut the ALUKAP <sup>®</sup> -SS Top Base Caps	13
Snap fit the ALUKAP <sup>®</sup> -SS Top Base Caps	13
Fit Top Wall Flashing and Flashing Tape to the back of the roof	14
Fit the Left and Right End Caps	. 14
Fit the QUADRAFLO® Deep Gutter Brackets	15
Complete ALUKAP <sup>®</sup> -SS Roof Structure	. 15

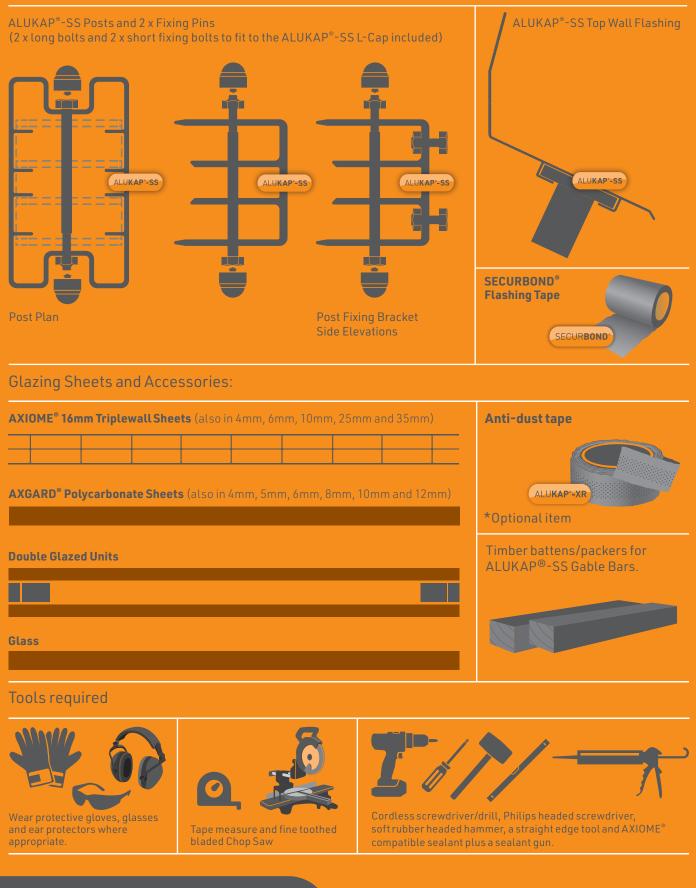
### ALUKAP<sup>®</sup>-SS Bar Parts

Below is a list of the core ALUKAP<sup>®</sup>-SS Glazing Bar types available and items that could be supplied with each bar, most of which you will need for your project, depending on the design of your project.



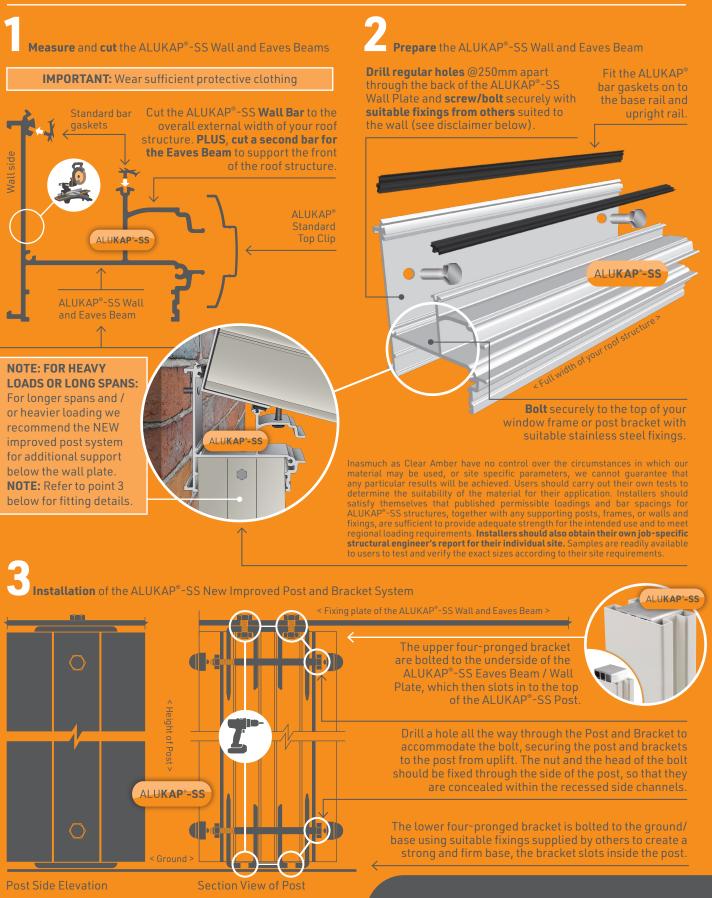


### ALUKAP<sup>®</sup>-SS Bar Parts - continued



www.clearamber.com | 5

### ALUKAP<sup>®</sup>-SS : Bars and Glazing Installation Guide

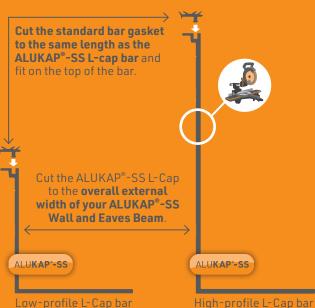




Fit the ALUKAP<sup>®</sup> bar gaskets into groove of the ALUKAP<sup>®</sup>-SS L-Cap bar.

Measure and cut the ALUKAP<sup>®</sup>-SS L-Cap Bars

#### **IMPORTANT:** Wear sufficient protective clothing



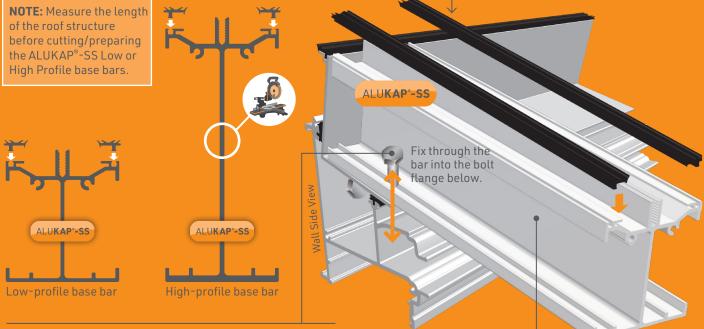
Low-profile L-Cap bar



The ALUKAP<sup>®</sup>-SS L-Cap Bar is placed on top of the two bar gaskets before continuing onto the next stage of the ALUKAP<sup>®</sup>-SS Low Profile Bar.

Measure and CUT THE FIRST ALUKAP<sup>®</sup>-SS Low or High Profile Bar

Measure and fit the ALUKAP  $^{\circ}$  bar gaskets into grooves of the ALUKAP  $^{\circ}\text{-}SS$  base bar.



Measure the bolt fixing position on both sides from the end of the ALUKAP<sup>®</sup>-SS base bar for drilling a 7mm hole through the ALUKAP<sup>®</sup>-SS span base bar and down through the bolt flange on the ALUKAP<sup>®</sup>-SS Eaves Beam and Wall Plate. This will vary between 40mm and 70mm depending on the pitch).

Cut the first ALUKAP<sup>®</sup>-SS Low/High Profile base bar to the correct length to allow it to rest between the TOP and BOTTOM ALUKAP<sup>®</sup>-SS L-Caps.

**Measure out the POSITIONS** of the ALUKAP<sup>®</sup>-SS Low or High Profile Bars



Measure out the positions of the ALUKAP<sup>®</sup>-SS High Span/Low Profile bars for the rest of the

#### ALUKAP<sup>®</sup>-SS Glazing Deductions:

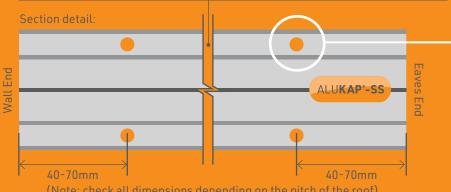
Glazing deduction guidelines are shown for the ALUKAP<sup>®</sup>-SS bar system for the ALUKAP<sup>®</sup>-SS Wall Bars, ALUKAP<sup>®</sup>-SS Standard/ Centre Bars and ALUKAP<sup>®</sup>-SS Gable Bars. However these may need to be amended depending on chosen glazing materials and glazing centres.



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**MEASURE** and **DRILL** fixing bolt positions on all the pre-cut ALUKAP<sup>®</sup>-SS Low or High Profile Base Bars

Using measurements taken for the bolt fixing position on the wall side of the first ALUKAP<sup>®</sup>-SS base bar (from part 5), turn over the remaining ALUKAP<sup>®</sup>-SS base bars and drill the bolt position using a 7mm drill.

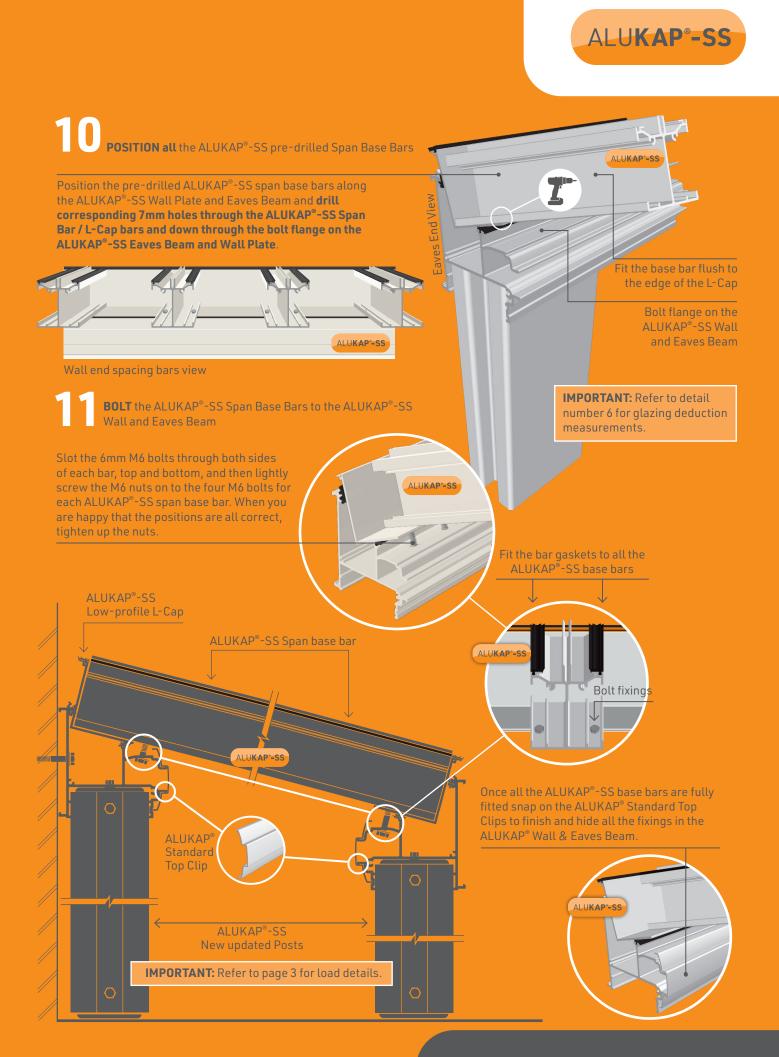




(Note: check all dimensions depending on the pitch of the roof)

**Measure** and **cut** the new ALUKAP<sup>®</sup>-SS Posts to the correct pitch heights

**IMPORTANT:** Prepare the ground/floor surface to support the weight of the ALUKAP<sup>®</sup>-SS roof. **Consult** ALUKAP<sup>®</sup>-SS L-Cap with a Structural Engineer before starting to built the roof structure (refer to page 5). Turn the ALUKAP<sup>®</sup>-SS Wall and Eaves Beam around UKAP'-SS so that the flat surface is facing forward. Refer to the information and diagram below showing how the QUADRAFLO® Deep Guttering system clicks in to the flat ALUKAP<sup>®</sup>-SS Wall & frame sided surface. Eaves Beam ALUKAP<sup>®</sup>-SS Post Bracket QUADRAFLO ALUKAP<sup>®</sup>-SS Updated Post ALUKAP\*-SS Measure and cut the posts to the correct height for the back ALLIKAP'-SS and front post as shown on the opposite diagram on page 9. ALUKAP<sup>®</sup>-SS Eaves detail diagram Fix the four-pronged fixing bracket to the ground surface and secure with suitable fixings supplied by others. The bracket slots inside the ALUKAP<sup>®</sup>-SS Post. Refer to Section 3 on page 5 for fixing details.



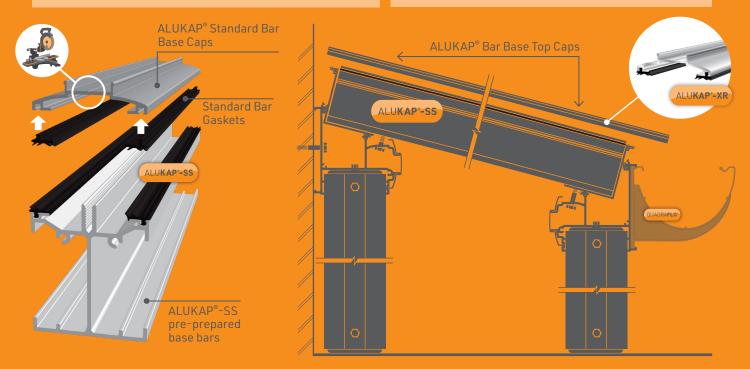
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## 12

#### **Prepare** the ALUKAP<sup>®</sup> Bar Base Top Caps before installation of the glazing panels

**Measure** and **cut** the required lengths of the ALUKAP<sup>®</sup> Top Bar Base Caps **allowing for the overhang in to the gutter and the continuation at the wall plate end up to the wall abutment.**  Carefully **INSERT** the thin Standard Bar Gaskets **into the grooves** on the base of the bar **ensuring that the gasket matches the contours of the ALUKAP<sup>®</sup> Base Bar.** 

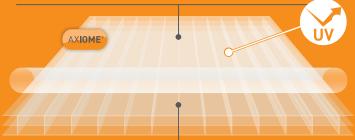


## **13** Prepare the **AXIOME**<sup>®</sup> **SHEETS** before installation

Where applicable, fit the **ALUKAP®-XR End Stop Bar** to the edge of the glazing material which works with ALUKAP®-XR glazing bars creating a frame to seal the glazing material and reduce any risk of slippage.

**IMPORTANT** – Store the AXIOME<sup>®</sup> sheets in **a clean, dry area** to prevent moisture getting into the flutes.

There is **protective film on both sides** of the AXIOME<sup>®</sup> sheet. The AXIOME<sup>®</sup> branded tape side is **UV protected**.



Ensure that you are working in a **clean dry area, pull the protective film back approximately 100mm from the open edge on both sides**, taking care not to scratch the surface.

## Apply the **ANTI-DUST TAPE** to the AXIOME<sup>®</sup> sheets

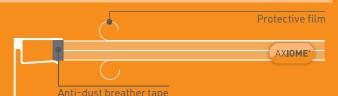
**IMPORTANT** – All adhesives suffer reduced initial bonding strength in cold conditions – **avoid applying tape below 5°C.** 



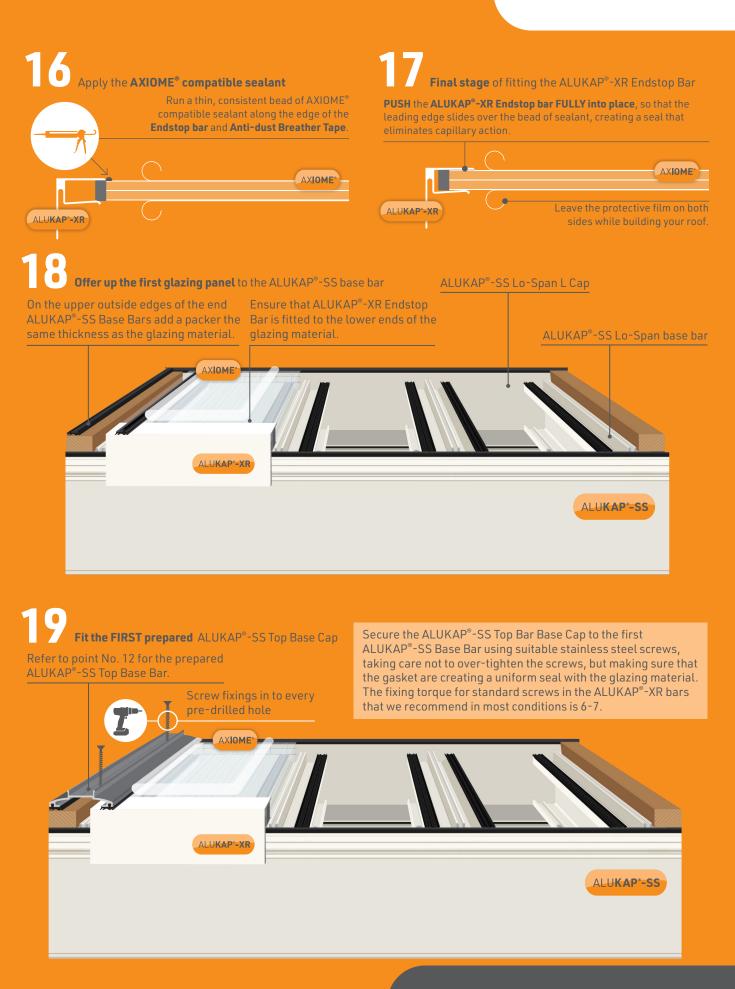
Stick the **AXIOME**<sup>®</sup> **Anti-dust Breather Tape** onto the top surface in a straight line from one side to the other, allowing enough to wrap around and bond to the underside. If it is necessary to join the tape mid-panel, ensure that there is a minimum 25mm overlap.

Apply the **ALUKAP<sup>®</sup>XR Endstop bar** to the AXIOME<sup>®</sup> sheets

Cut the Endstop Bar to the width of each AXIOME<sup>®</sup> Sheet, and **push-fit partway ONLY** so that the open edge of the Endstop Bar just covers about **10-15mm of the glazing material**.









20

Offer up the next glazing panel to the ALUKAP<sup>®</sup>-SS base bar

Offer up the next glazing panel and repeat the procedure on point No. 19 to fix the next intermediate Alukap<sup>®</sup>-SS Top Bar Base Cap between the first and second glazing panel. Then continue along the rest of the roof until all glazing panels are secured.

Keep the film on the AXIOME®

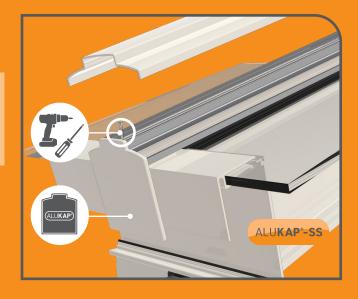


**21** Repeat and finish fixing the glazing panels on to the roof



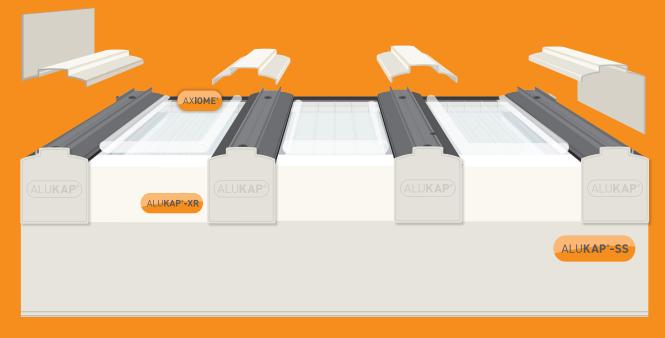
22 Prepare and fit the ALUKAP® End cap to each bar

Drill a 2.5mm hole in the ALUKAP<sup>®</sup>-SS Top Bar Base Cap for the ALUKAP<sup>®</sup> End cap screw. Secure the ALUKAP<sup>®</sup> End cap on to the ALUKAP<sup>®</sup>-SS Top Bar Base Cap. It is normally recommended that this covers the ALUKAP<sup>®</sup>-XR Endstop Bar, which will be fitted to the glazing material.



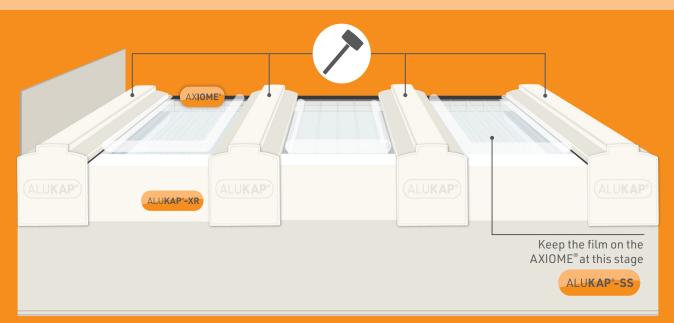
# 23 Carefully cut the ALUKAP®-SS Top Bar Top Caps

Now carefully cut the ALUKAP<sup>®</sup>-SS Top Bar Top Cap to the accurate length required for a perfect aesthetically pleasing finish. For gable end or wall abutments use the ALUKAP<sup>®</sup>-SS Gable Bar or Wall Bar Top Cap.



# 24 Snap fit the ALUKAP<sup>®</sup>-SS Top Bar Top Caps

Snap the ALUKAP<sup>®</sup>-SS Top Bar Top Caps on to the Alukap<sup>®</sup>-SS Top Bar Base Caps along the whole length of the bar. **Use a suitable rubber /plastic headed hammer** for this action and **avoid heavy impact**, to avoid damage to the ALUKAP<sup>®</sup>-SS bar and the glazing materials.







#### **Option One**

Fit flashing tape to the back wall and any adjacent wall as required

Place, measure and cut the aluminium ALUKAP<sup>®</sup>-SS Top Wall Flashing and foam gasket to match the full width of the roof. Place the Top Wall Flashing onto your roof and mark on the foam gasket where each glazing bar meets Top Wall Flashing. Then cut out a notch at each mark so that the Foam Gasket sits flat on the AXIOME<sup>®</sup> Sheets and over each Glazing Bar. Alternatively, put pressure to compress the foam gasket to ensure the Foam Gasket Seals against the AXIOME<sup>®</sup> sheets properly.

> Push down the prepared ALUKAP<sup>®</sup>-SS Top Wall Flashing with the prepared gasket in place and fix to the wall using suitable stainless steel screws.

> > ALUKAP°-SS

UKAP°-SS



ALUKAP'-SS

UKAP°-SS

ALUKAP . 56

Mould the SECURBOND<sup>®</sup> Flashing Tape around all the edges of the ALUKAP<sup>®</sup>-SS Top Cap bars to create a waterproof seal at the rear of the roof.

ALU**KAP°-SS** 

**27** Fit the ALUKAP<sup>®</sup>-SS Left and Right End caps to complete the roof structure

14 | www.clearamber.com

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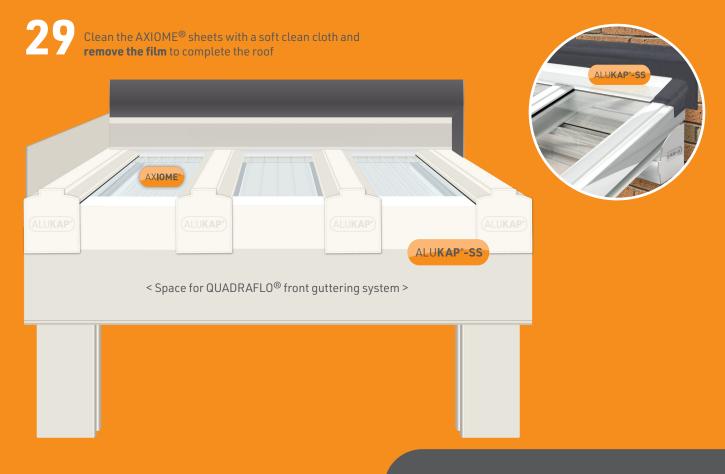


QUADRAFLO

ALUKAP°-SS

## **28** Fit the QUADRAFLO<sup>®</sup> Deep Gutter Bracket

Fix QUADRAFLO® Deep Gutter brackets to the **front face of the ALUKAP®-SS Eaves Beam**, and then fit the remaining desired QUADRAFLO® Deep Gutter and down pipe as required. QUADRAFLO® Deep Style gutter brackets are designed to snap fix in to the front of the ALUKAP®-SS Eaves Beam, and only then require location fixings as desired, saving time on site.



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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<sup>®</sup>-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.

