

# **Superior Roof** Glazing System **Installation Guide**





#### Your ALUKAP®-XR System

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

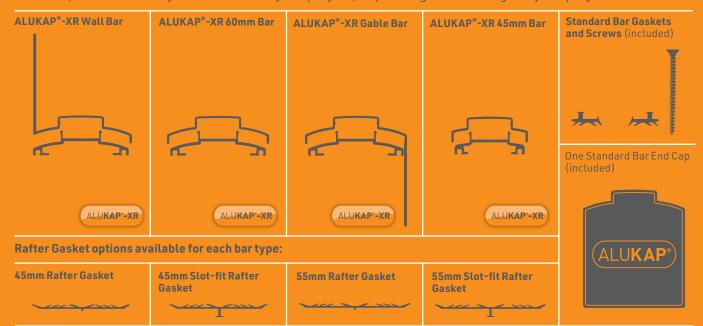
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#### Part 1: ALUKAP®-XR Bar Parts Available

Below is a list of the core ALUKAP®-XR 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.



#### Glazing Sheets and Accessories:



#### **Tools Required**

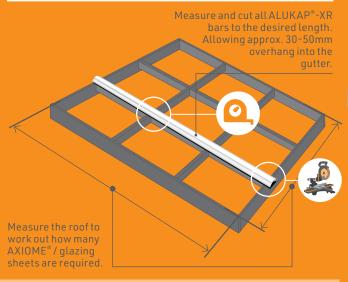




### ALUKAP®-XR: Bars and Glazing Installation Guide

Take all **measurements** of the roof rafters

**IMPORTANT:** Wear sufficient protective clothing



Cut lengths of the wider Rafter Gaskets to the same dimensions as the ALUKAP®-XR base bars (one for each bar).

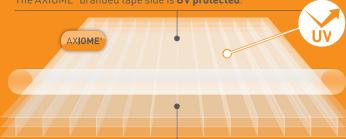
Cut **two lengths** of the **thin standard bar gasket** to the same length as the ALUKAP®-XR base bar >

Prepare the **AXIOME® 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® sheets in **a clean, dry area** to prevent moisture getting into the flutes.

There is **protective film on both sides** of the AXIOME® sheet. The AXIOME® 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® sheets

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



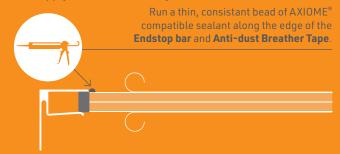
Stick the **AXIOME® Anti-dust Breather Tape** onto the top surface in a straight line from one side to the other, allowing enough to wrap around and bond to the underside. **If it is necessary to join the tape mid-panel, ensure that there is a minimum 25mm overlap.** 

Apply the **ALUKAP®XR Endstop bar** to the AXIOME® sheets

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



Apply the **AXIOME® compatible sealant** 



Final stage of fitting the ALUKAP®-XR Endstop Bar

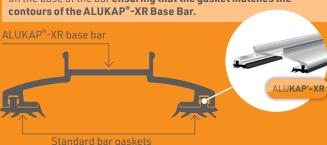
**PUSH** the **ALUKAP®-XR Endstop bar FULLY into place**, so that the leading edge slides over the bead of sealant, creating a seal that eliminates capillary action.





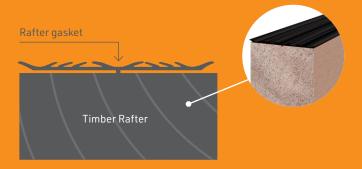
Fit the Standard Bar Gaskets to the ALUKAP®-XR base bar

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®-XR Base Bar.



Fit the Rafter Gaskets to the existing rafters

Position the ALUKAP®-XR rafter gasket over the existing rafters.



Position the prepared glazing sheets onto the rafters

Lay your glazing materials on top of the rafter gasket and rafters, allowing enough space in between the sheets for the fixing screws and thermal expansion appropriate to the chosen glazing material.

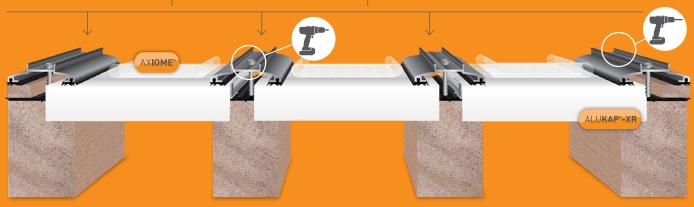


NOTE - ALUKAP®-XR Gable and Wall Bars ONLY

- When using AXIOME® or AXGARD® the material can be extended right across the rafter under the outermost ALUKAP®-XR bar gasket.
- Where glass is chosen for the glazing material rather than AXIOME® or AXGARD®, the ALUKAP®-XR Wall and Gable bars will require a timber packer under the outer edge gasket. The battens width is [12mm] and height (x) equates to the glazing thickness plus 2mm. The ALUKAP®-XR rafter gasket should run under the timber packer.

### Fitting the ALUKAP-XR base bars

- 1. Lay the ALUKAP®-XR base bars directly above the each rafter, on top of the glazing material.
- 2. **Drill pilot holes through the pre- drilled holes** in the ALUKAP®-XR
  base bar, into the rafter as required.
- 3. Screw the ALUKAP®-XR base bar into place, taking care not to over-tighten the screw, but ensuring they are tight enough that the gaskets create a uniform seal with the glazing material.



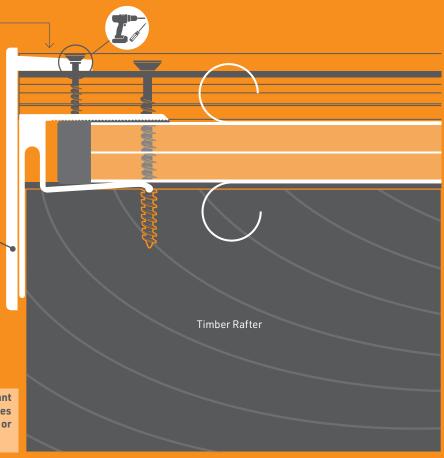


## Fit the ALUKAP End Cap to the front of each bar

- 1. Place the ALUKAP® End Cap into place at the end of the base bar butting up against the ALUKAP®-XR End Stop Bar / glazing material.
- 2. Make a marking on the base bar to position the screw fixing, remove the End Cap and drill a 2.5mm hole into the ALUKAP\*-XR base bar to suit the screw for the ALUKAP\*-XR End Cap.
- 3. Place the ALUKAP® End Cap back into place and use the short screw provided to secure in place.



Make any ADDITIONAL SEALS with a suitable sealant as required where the Alukap-XR base bar makes any abutments or connections to Walls, Hip bars or Ridge bars.



SECTION DETAIL

### Measure and cut the ALUKAP®-XR Top Clips for each bar

- Carefully cut the ALUKAP®-XR Wall, Standard Bar and Gable Bar Top Clips to the accurate length required including any mitre or angled cuts for a perfect aesthetically pleasing finish.
- 2. For sealing the ALUKAP®-XR Wall Bars to the wall, administer a suitable sealant to the ribbed backing of the ALUKAP®-XR Wall Bar to create an abutment to the adjacent wall. Then dress a lead flashing or flashing tape over the upstand of the ALUKAP®-XR Wall Bar.





### Fit the ALUKAP®-XR Top Clips to each bar

- Using a suitable rubber/plastic headed hammer, carefully snap the ALUKAP\*-XR top clips onto the base bar along the whole length concealing the fixings.
- For sealing the completed roof structure at the back, administer a suitable sealant or fit lead flashing or flashing tape across the back wall, dressing it down over the glazing by approximately 150mm-200mm depending on your pitch.



Finish of the back of the lean-to roof – fit the **ALUKAP®-XR Top Wall Flashing** 

**Place, measure** and **cut** the aluminium **ALUKAP®-XR 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® Sheets and over each Glazing Bar. Alternatively, you can simply apply downward pressure to compress the foam gasket at each glazing bar to ensure the Foam Gasket Seals against the AXIOME® sheets properly.

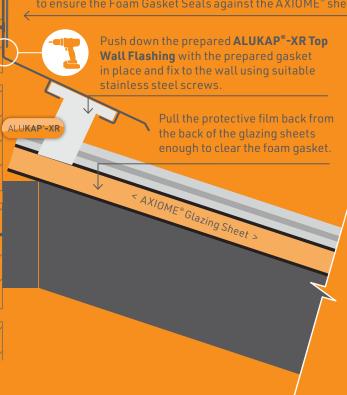
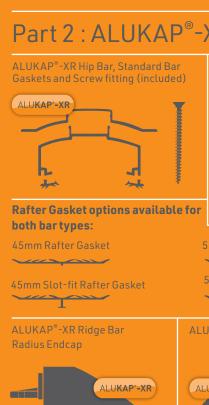


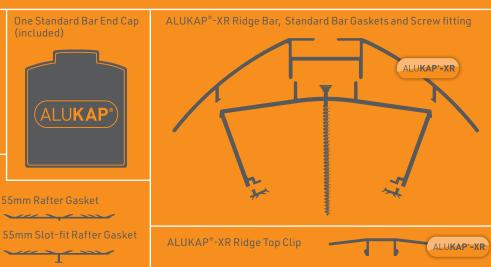


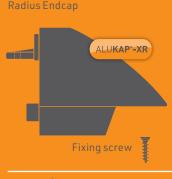
Illustration of the ALUKAP®-XR Top Wall Flashing

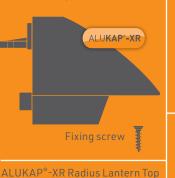


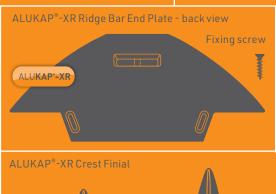
#### Part 2: ALUKAP®-XR Additional Parts Available

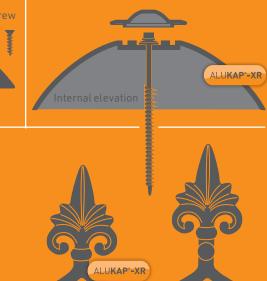












ALUKAP®-XR Pinnacle Top Cap, incl. blot fixing

ALUKAP°-XR

Cap, including screw fitting



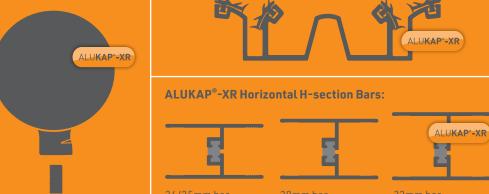
ALUKAP®-XR Standard Finial

ALU**KAP\*-XR** 



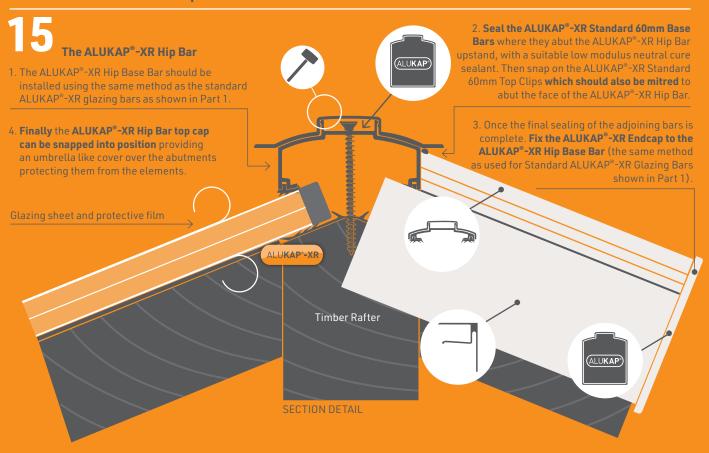


ALUKAP®-XR Valley Bar, plus Standard Bar Gaskets incl:





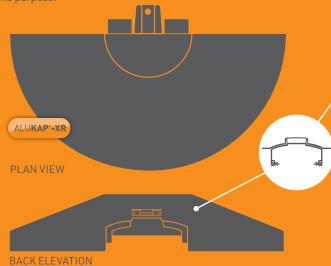
#### ALUKAP®-XR: Hip Bar



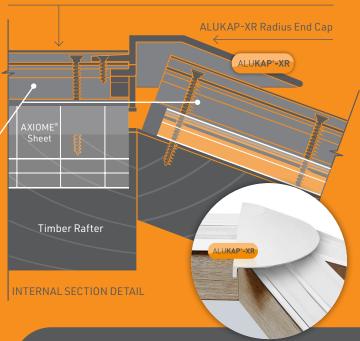
### ALUKAP®-XR: Roof Lantern End and Lantern Caps

## 16a The ALUKAP®-XR Radius End Cap

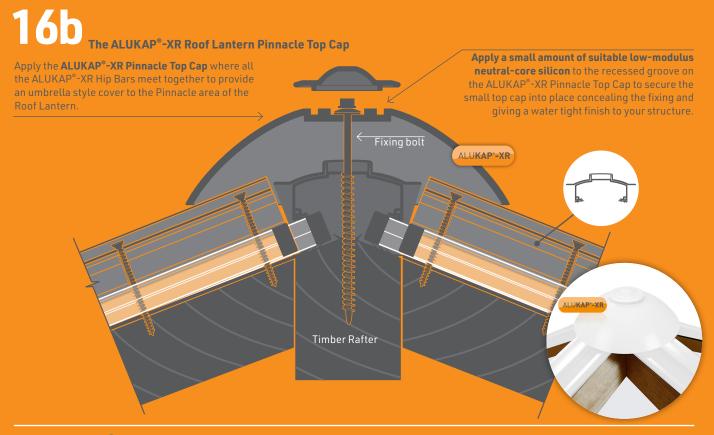
The ALUKAP®-XR Hip Bar can also be used to **create a roof lantern**. The ALUKAP®-XR Roof Lantern Pinnacle Top Cap and Radius End Cap are designed to work in conjunction with the ALUKAP®-XR Hip Bar for this purpose.



Fix the ALUKAP°-XR Radius End Cap to the end of the ALUKAP°-XR Hip Base Bar, once secured snap the umbrella-type top cap to the base bar, administer a suitable sealant to make a water tight finish.

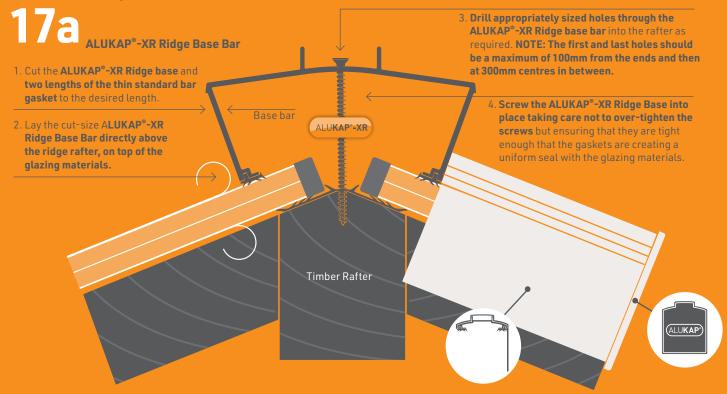






#### ALUKAP®-XR: Ridge Bar

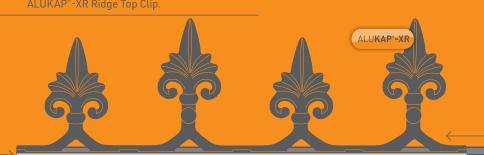
The **ALUKAP®-XR Ridge System** is designed for larger full ridge applications. The following information shows various options whilst installing the ALUKAP®-XR Ridge system, whether you prefer to add Crests, Finials or have a plain finish.





Fit the ALUKAP®-XR Crest Finial (optional)

- 1. CAREFULLY cut the ALUKAP®-XR Ridge Top Clip to the ALUKAP®-XR Ridge Base Bar.
- 2. Run a bead of sealant down the channel of the ALUKAP®-XR Ridge Top Clip.



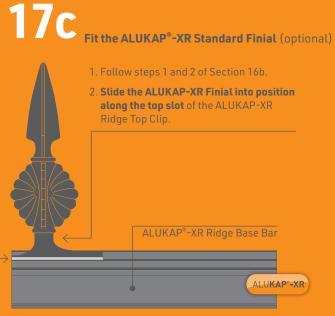
3. Slide the ALUKAP-XR Finial into position along the top slot of the ALUKAP-XR Ridge Top Clip.

WARNING: The Finail should be fitted PRIOR to attaching the ALUKAP®-XR Ridge Top Clip to the ALUKAP®-XR Ridge Base bar.

> ALUKAP®-XR Ridge Top Clip base plate



SECTION DETAIL - CREST FINIAL







TC Fit the ALUKAP®-XR Ball Finial (optional)

1. Drill a 14-15mm diametre hole through the top of the ALUKAP®-XR Ridge Radius End Cap half way through the top cap and the lower fixing plate.



2. Apply a suitable sealant to the upper surface of the ALUKAP®-XR Radius End Cap where the ALUKAP®-XR Ball Finial will connect and also to the underside matching area of the ALUKAP®-XR Ball Finial.

3. Fix the ALUKAP®-XR Ridge Radius End Cap and ALUKAP®-XR Ball Finial to the ALUKAP®-XR Ridge Base Bar and secure with the supplied fixing screw. Seal any abutments and connections with a

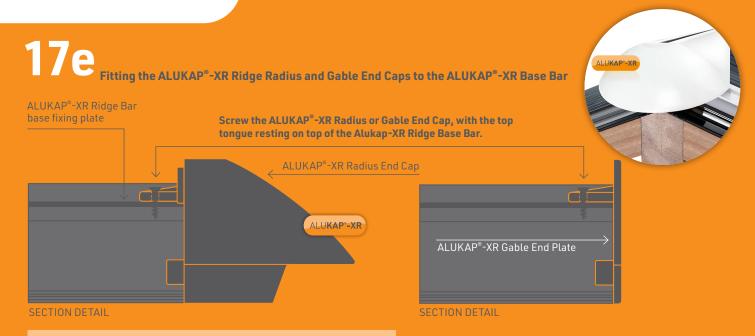


SECTION DETAIL - BALL FINIAL

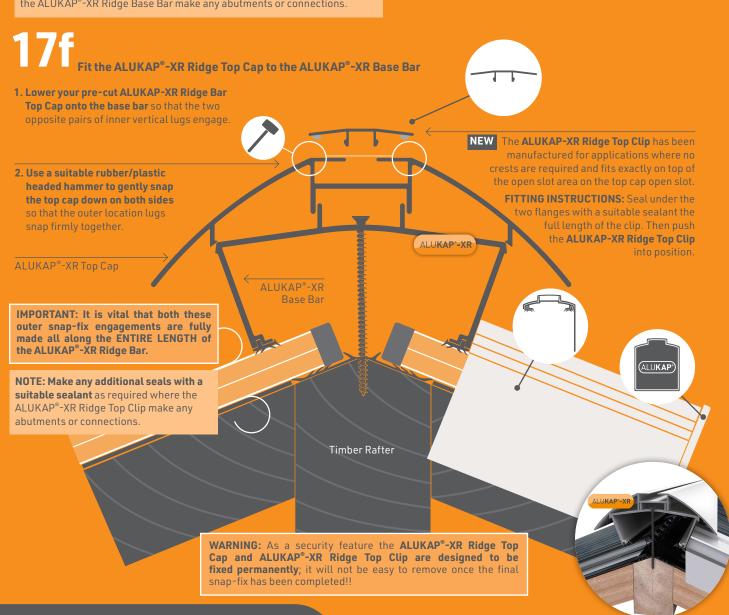
4. Place the ALUKAP®-XR Ball Finial on top of the ALUKAP®-XR Ridge Radius End Cap resting on the flat part of the End Cap and fix the bolt throught the underside of the ALUKAP®-XR Ridge Radius End Cap making sure the Ball Finial is tightly secured.

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**NOTE: Make any additional seals with a suitable sealant** as required where the ALUKAP®-XR Ridge Base Bar make any abutments or connections.

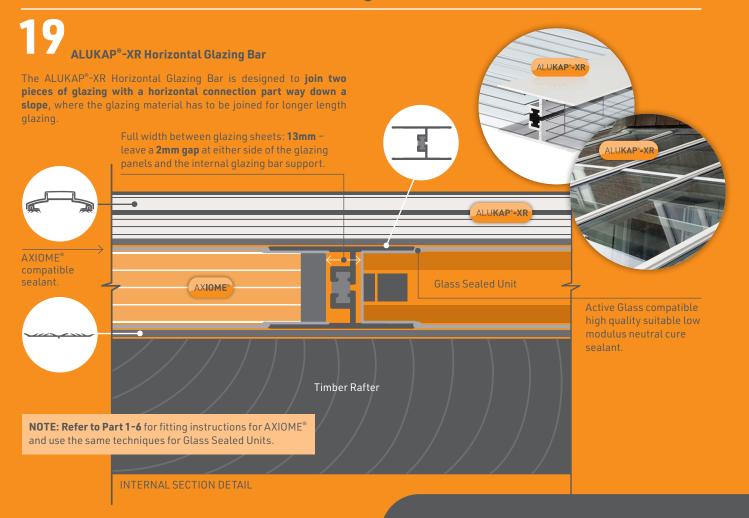




#### ALUKAP®-XR: Valley Bar



#### ALUKAP®-XR: Horizontal Glazing Bar



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#### Disclaimer

Once  $\mathsf{AXIOME}^e$  multiwall polycarbonate sheet has left our warehouse, we cannot control transportation, storage, installation or handling, nor can we influence installation conditions, Clear Amber Group cannot be held responsible

in any way for condensation issues or other installation problems that may arise, or any associated remedial work. All advice is offered in good faith based on our experience. Installers should apply best practices before and during installation.

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