

ALUKAP®-XR

Superior Roof Glazing System Technical Guide



Simple Effective Roof Glazing

Roof glazing has always been a challenging task; rewarding if done well, and costly if not. Alukap®-XR puts an end to uncertainty. With a proven gasket system, concealed fixings and reduced installation time, it's an all-round winner.

With no plastic components, superior waterproofing and a sleek appearance, Alukap®-XR's excellent performance makes it suitable for a wide variety of applications.

Available in two bar widths, as well as a range of matching specialised profiles, all with quality aluminium end caps, Alukap®-XR offers the ultimate roof glazing solution, for even the most challenging weather conditions. High-quality stainless steel fixings and gaskets are included with each profile, with several rafter gasket options are also available.

Samples of Alukap®-XR are available on request.



Common uses:

- ✓ Carports
- ✓ Greenhouses
- ✓ Canopies
- ✓ Smoking shelters
- ✓ Verandas
- ✓ Covered walkways
- ✓ Swimming pools
- ✓ Factory partitions
- ✓ Cycle shelters
- ✓ Vertical glazing

Qualities:

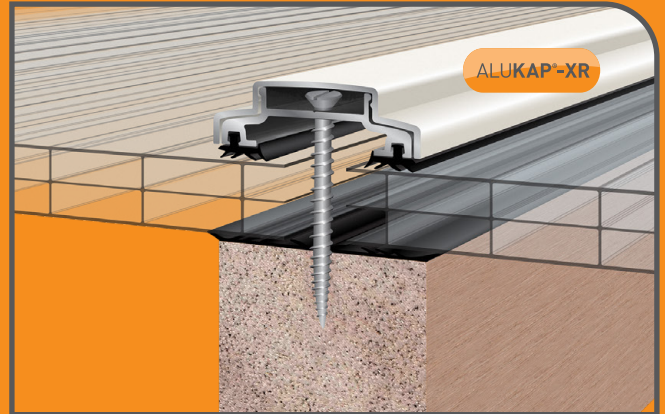
- ✓ Superior weather resistance
- ✓ All aluminium components
- ✓ Class leading aesthetics
- ✓ Installer friendly
- ✓ Reduced installation time
- ✓ Concealed fixings
- ✓ Manufactured from high quality aluminium
- ✓ No plastic connections



Alukap®-XR : 45mm Glazing Bar

This neat 45mm Alukap®-XR glazing bar is an excellent solution to compliment 45mm timber rafters. Despite its petite nature, it offers surprisingly substantial sightlines providing impressive aesthetics to the glazing structure.

The concealed-fix security aluminium end cap system prevents the top section from slippage and many clients say that they have even used to prevent the glazing itself from slipping down moderately sloped roofs. Users must carry out their own tests on the site specific loadings to satisfy themselves that this is structurally acceptable for each particular application.



Alukap®-XR 45mm Glazing Bar

| Rafter Gasket Type | 2.0m | 2.4m | 3.0m | 3.6m | 4.8m | 6.0m |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| No Rafter Gasket | AKX216 | AKX218 | AKX220 | AKX222 | AKX224 | AKX226 |
| 45mm Rafter Gasket | AKX225 | AKX227 | AKX228 | AKX230 | AKX232 | AKX234 |
| 45mm Slot-fit Rafter Gasket | AKX233 | AKX235 | AKX236 | AKX238 | AKX240 | AKX242 |
| 55mm Rafter Gasket | AKX241 | AKX243 | AKX244 | AKX246 | AKX248 | AKX250 |
| 55mm Slot-fit Rafter Gasket | AKX249 | AKX251 | AKX252 | AKX254 | AKX256 | AKX258 |

Alukap®-XR : 60mm Glazing Bar

The 60mm Alukap®-XR glazing bar has been developed to cope with situations where a wider cover is required. Its shape compliments the 45mm Alukap®-XR glazing bar so that both can be used on the one structure if desired.

Both bars lend themselves excellently to a perfect inline joint connection without extra components allowing a far higher yield on optimisation of bar lengths which underscores one of the key design features for reducing waste and cutting costs.



Alukap®-XR 60mm Glazing Bar

| Rafter Gasket Type | 2.0m | 2.4m | 3.0m | 3.6m | 4.8m | 6.0m |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| No Rafter Gasket | AKX316 | AKX319 | AKX320 | AKX322 | AKX324 | AKX326 |
| 45mm Rafter Gasket | AKX325 | AKX327 | AKX328 | AKX330 | AKX332 | AKX334 |
| 45mm Slot-fit Rafter Gasket | AKX333 | AKX335 | AKX336 | AKX338 | AKX340 | AKX342 |
| 55mm Rafter Gasket | AKX341 | AKX343 | AKX344 | AKX346 | AKX348 | AKX350 |
| 55mm Slot-fit Rafter Gasket | AKX347 | AKX349 | AKX352 | AKX354 | AKX356 | AKX358 |

Alukap®-XR : 60mm Gable Bar

The Alukap®-XR Gable Bar is an incredibly useful system, allowing all the alignment and fixing work to be completed before snap-fixing the top section, providing a perfect finish to an area of the roof that is often seen the most.

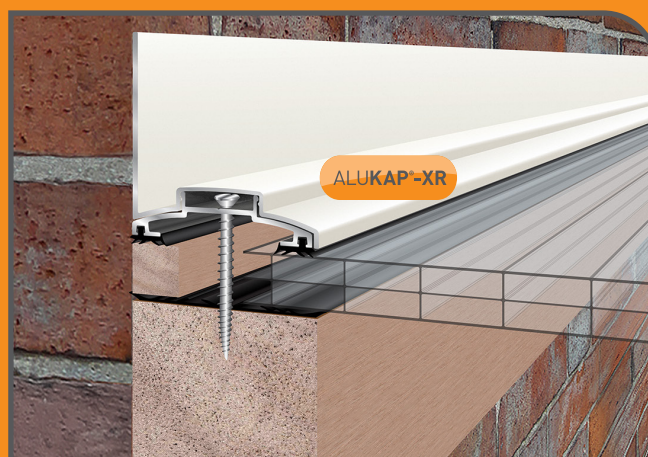


Alukap®-XR 60mm Gable Bar

| Rafter Gasket Type | 2.0m | 2.4m | 3.0m | 3.6m | 4.8m | 6.0m |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| No Rafter Gasket | AKX449 | AKX451 | AKX452 | AKX454 | AKX456 | AKX458 |
| 45mm Rafter Gasket | AKX457 | AKX459 | AKX460 | AKX462 | AKX464 | AKX466 |
| 45mm Slot-fit Rafter Gasket | AKX465 | AKX467 | AKX468 | AKX470 | AKX472 | AKX474 |
| 55mm Rafter Gasket | AKX473 | AKX475 | AKX476 | AKX478 | AKX480 | AKX482 |
| 55mm Slot-fit Rafter Gasket | AKX481 | AKX483 | AKX484 | AKX486 | AKX488 | AKX490 |

Alukap®-XR : 60mm Wall Bar

The Alukap®-XR Wall Bar offers the ultimate waterproofing solution in circumstances where a glazing structure terminates at a rising wall. Again the second-fixing top section allows all the hard work to be done first before simply snapping the top profile into place. This system eliminates much of what would otherwise be a complex lead detail.



Alukap®-XR 60mm Wall Bar

| Rafter Gasket Type | 2.0m | 2.4m | 3.0m | 3.6m | 4.8m | 6.0m |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| No Rafter Gasket | AKX549 | AKX551 | AKX552 | AKX554 | AKX556 | AKX558 |
| 45mm Rafter Gasket | AKX557 | AKX559 | AKX560 | AKX562 | AKX564 | AKX566 |
| 45mm Slot-fit Rafter Gasket | AKX565 | AKX567 | AKX568 | AKX570 | AKX572 | AKX574 |
| 55mm Rafter Gasket | AKX573 | AKX575 | AKX576 | AKX578 | AKX580 | AKX582 |
| 55mm Slot-fit Rafter Gasket | AKX581 | AKX583 | AKX584 | AKX586 | AKX588 | AKX590 |

Alukap®-XR: Top Wall Flashing

When flashing from a back wall onto a roof the use of a lead flashing on its own is prone to leaks and an unsightly finish.

Now you can properly seal and install flashing on the back of your lean-to roof with our Alukap®-XR Top Wall Flashing with its unique foam gaskets! Manufactured from aluminium the top wall flashing has an expected life-span of 20 plus years and will help stop any drips or leaks for many years, when installed correctly.

Top Wall Flashing



| Description | 2.0m | 2.4m | 3.0m | 6.0m |
|---|----------|----------|----------|----------|
| Alukap®-XR Top Wall Flashing - Brown | AKX898B | AKX900B | AKX903B | AKX906B |
| Alukap®-XR Top Wall Flashing - Bespoke Colour | AKX898PC | AKX900PC | AKX903PC | AKX906PC |
| Alukap®-XR Top Wall Flashing - White | AKX898W | AKX900W | AKX903W | AKX906W |

Alukap®-XR : End Stop Bar

Issues with the lower end of glass and polycarbonate glazing panels gave rise to the innovation of a substantial drip trim that will not warp, discolour, crack or fall off like the inferior plastic equivalents.

This crucial area is all too often left to chance, and can cause costly damage to the glazing. The Alukap®-XR End Stop, puts a stop to that!

End Stop Bar



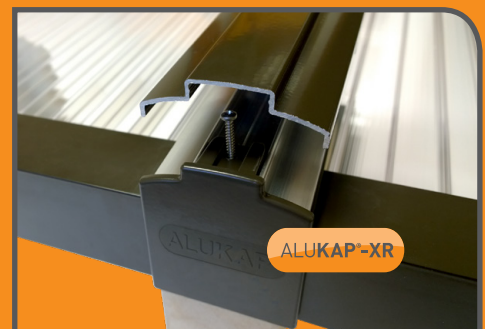
| Length | 6.4mm | 10mm | 16mm | 25mm | 28mm | 35mm |
|--------|--------|--------|--------|--------|--------|--------|
| 2.4m | AKX008 | AKX105 | AKX111 | AKX117 | | AKX129 |
| 3.0m | | AKX106 | AKX112 | AKX118 | | AKX130 |
| 3.6m | | AKX108 | AKX114 | AKX120 | | AKX132 |
| 4.8m | AKX104 | AKX110 | AKX116 | AKX122 | AKX128 | AKX134 |

Reducing the Chance of Slippage

This image shows a glazing assembly which combines the Alukap®-XR End Stop Bar glazed behind the Alukap® Glazing Bar End Cap.

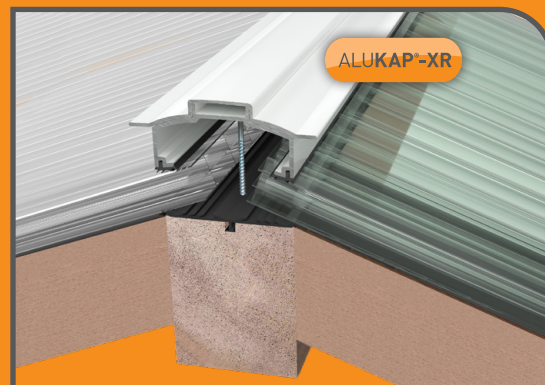
This means that in addition to the pressure from the main fixings on the Alukap®-XR bars holding the glazing sheets in position, the combined end cap and end stop bar provides a further constraint, thereby greatly reducing any chance of glazing slippage.

Glazing Bar Assembly



Alukap®-XR : 60mm Hip Bar

This Alukap®-XR Hip Bar is a must-have for easy hip connections. It provides a second-fix cover member, allowing the installer to make accurate mitre abutments and apply sealant if necessary, before snapping on the upper profile that acts as an umbrella protection without any unsightly and impractical plastic connectors.



Alukap®-XR 60mm Hip Bar

| Rafter Gasket Type | 2.0m | 2.4m | 3.0m | 3.6m | 4.8m | 6.0m |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| No Rafter Gasket | AKX658 | AKX611 | AKX612 | AKX614 | AKX616 | AKX618 |
| 45mm Rafter Gasket | AKX617 | AKX619 | AKX620 | AKX622 | AKX624 | AKX626 |
| 45mm Slot-fit Rafter Gasket | AKX625 | AKX627 | AKX628 | AKX630 | AKX632 | AKX634 |
| 55mm Rafter Gasket | AKX633 | AKX635 | AKX636 | AKX638 | AKX640 | AKX642 |
| 55mm Slot-fit Rafter Gasket | AKX641 | AKX643 | AKX644 | AKX646 | AKX648 | AKX650 |

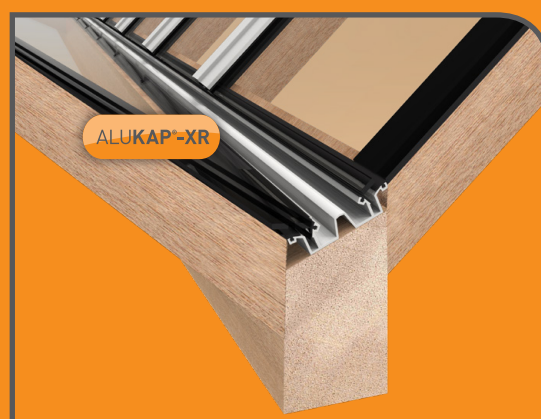
Alukap®-XR : Valley Bar

The Alukap®-XR Valley Bar is one entirely unique patent pending design. It is designed to recess in to a timber valley so that it is entirely concealed. It's double gasket water seal, ensures that there are no possibilities of leaks.

The high-capacity channels ensure a fast rainwater flow. The valley suits almost any angle of glazing. For extreme angles the valley can be simply tilted within the valley timber if required, as shown in the lower image below.

Benefits:

- ✓ One piece leak-proof system
- ✓ Not visible from underneath
- ✓ Integral glass stops
- ✓ Suits varying angles
- ✓ Suits any glazing thickness
- ✓ No need for glazing bar on the top of the glass down the valley

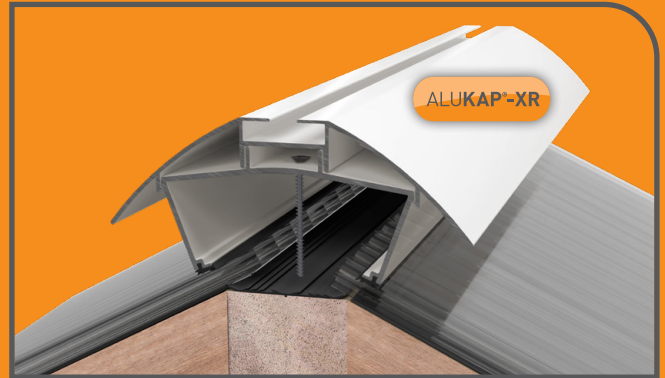


| Description | Code |
|---|--------|
| Alukap®-XR Valley Bar with gaskets - 3.0m | AKX810 |
| Alukap®-XR Valley Bar with gaskets - 4.8m | AKX812 |
| Alukap®-XR Valley Bar with gaskets - 6.0m | AKX814 |

Alukap®-XR : Ridge Bar

The ridge area of a roof gets the greatest impact from the elements, which is why the Alukap®-XR Ridge Bar is manufactured with an incredibly robust structure.

Curved gasket feet that accommodate varying pitches, and a generous overhang that again protects the connections of adjacent bars without any unsightly and impractical plastic connectors are just two of the many outstanding features and benefits to this unique ridge system.



Alukap®-XR Ridge Bar

| Rafter Gasket Type | 1.0m | 2.0m | 3.0m | 6.0m |
|-----------------------------|--------|--------|--------|--------|
| No Rafter Gasket | AKX710 | AKX720 | AKX730 | AKX760 |
| 45mm Rafter Gasket | AKX712 | AKX722 | AKX732 | AKX762 |
| 45mm Slot-fit Rafter Gasket | AKX714 | AKX724 | AKX734 | AKX764 |
| 55mm Rafter Gasket | AKX716 | AKX726 | AKX736 | AKX766 |
| 55mm Slot-fit Rafter Gasket | AKX718 | AKX728 | AKX738 | AKX768 |

Alukap®-XR : Ridge Crests and Finials

The Alukap®-XR aluminium finials provides a spire style finish to the end of your Alukap®-XR Ridge Bar. Finials add decorative style and class to any ridge detail.



Ridge Finial



Ridge Crest



Ridge Ball Finial

| Description | Code |
|---------------------------------|--------|
| Alukap®-XR Ridge Finial | AKX774 |
| Alukap®-XR Ridge Crests - 595mm | AKX775 |
| Alukap®-XR Ridge Ball Finial | AKX776 |

Alukap®-XR : Ridge Snap Channel Cover

The Alukap®-XR Ridge Snap Channel Cover makes a perfect finish for the Alukap®-XR Ridge Bar. You can use the ridge snap channel cover alongside the crests and finials to seal the crest from any water getting inside.

| Description | 3.0m | 6.0m |
|--|----------|----------|
| Alukap®-XR Ridge Snap Channel Cover - White | AKX706WH | AKX708WH |
| Alukap®-XR Ridge Snap Channel Cover - Brown | AKX706BR | AKX708BR |
| Alukap®-XR Ridge Snap Channel Cover - Bespoke Colour | AKX706P | AKX708P |



Alukap®-XR : Ridge End Cap and End Plate

The Alukap®-XR Ridge has two end plate and cap options. For roofs where the end of the Alukap®-XR Ridge is a gable end, the flat finish of the Alukap®-XR Gable End Plate finishes the Ridge off with a vertical end.

Alternatively where the Alukap®-XR Ridge is joined to connecting Hip bars, the unique design of the Radius End Cap provides excellent coverage for adjoining bars.

Ridge Gable End Plate



Ridge Radius End Cap



| Description | Code |
|----------------------------------|--------|
| Alukap®-XR Ridge Gable End Plate | AKX772 |
| Alukap®-XR Ridge Radius End Cap | AKX773 |

Alukap®-XR: Lantern Pinnacle Cap

This Alukap®-XR Lantern Pinnacle Cap provides the perfect solution for a lantern pinnacle roof apex. It works well with a wide range of pitches and any number of intersecting glazing bars. The two-piece Alukap®-XR Lantern Pinnacle Cap provides a fully concealed fixing method for any lantern roof pinnacle capping requirement.

Lantern Pinnacle Cap



| Description | Code |
|---------------------------------|--------|
| Alukap®-XR Lantern Pinnacle Cap | AKX779 |

Alukap®-XR: Lantern Radius End Cap

The Alukap®-XR Lantern Radius End Cap is designed specifically to work with the Alukap®-XR Hip bars.

On roof lanterns where a Hip bar is used as a ridge section to create a neater and lower-cost solution, the lantern radius end cap connects in to the Hip profile when used as the roof ridge and provides excellent cover for the intersection Hip bars.

NOTE: If you are using an **Alukap®-XR Ridge** and **NOT** the **Alukap®-XR Hip Bar for the ridge** then please use the **AKX773 Alukap®-XR Ridge Radius End Cap**.

Lantern Radius End Cap



| Description | Code |
|-----------------------------------|--------|
| Alukap®-XR Lantern Radius End Cap | AKX778 |

Alukap®-XR : Glazing Bar End Cap

The end cap of a glazing bar is sometimes the most prominently seen component. On the Alukap®-XR system, every bar comes with a powder coated metal end cap which provides a robust solution that will last. Each Alukap® glazing bar end cap comes with a screw which fixes to the bar completely concealed below the bar top cap.

Glazing Bar End Cap



| Description | Code |
|-----------------------------|--------|
| Alukap® Glazing Bar End Cap | AKX310 |

Securbond® : Flashing Tape and Silicone LMN Sealant

Securbond® Flashing Tape and Silicone LMN Sealant provides a secure seal between your roof and connecting wall, which helps to prevent any water ingress.

| Description | Code |
|--------------------------------------|------|
| Securbond® 150mm Flashing Tape - 10m | AG73 |
| Securbond® 200mm Flashing Tape - 10m | AG74 |

| Description | Code |
|---|-------|
| Securbond® Silicone Sealant 300ml - Clear | AG83C |
| Securbond® Silicone Sealant 300ml - White | AG83W |
| Securbond® Silicone Sealant 300ml - Black | AG83B |
| Securbond® Silicone Sealant 300ml - Grey | AG74G |



Flashing Tape



LMN Sealant

Alukap®-XR : Rubber Gaskets

The Alukap®-XR gaskets are pre-lubricated with a special lubricant that is safe for use with coated glass units. Gasket lubrication helps assist natural expansion and contraction and reduces any unnecessary friction build up.

The rafter gasket with a slot-fit is designed as an on-site time saver, where a centre groove has been routed in to the rafters. The slot-fit then means the rafter gasket can be quickly installed with perfect alignment before the glazing sheet is positioned on to the roof.



Glazing Bar Gasket

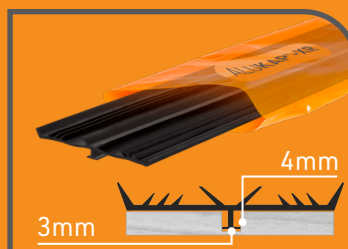
| Description | Code |
|--|-------|
| Alukap®-XR Glazing Bar Gasket | AKX65 |
| Alukap®-XR 45mm Rafter Gasket | AT45 |
| Alukap®-XR 45mm Slot-fit Rafter Gasket | AT47 |
| Alukap®-XR 55mm Rafter Gasket | AT55 |
| Alukap®-XR 55mm Slot-fit Rafter Gasket | AT57 |



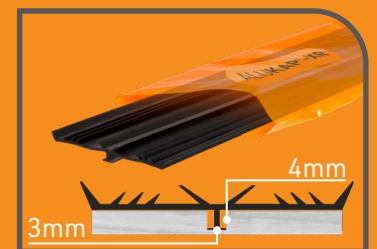
45mm Rafter Gasket



55mm Rafter Gasket



45mm Slot-fit Rafter Gasket

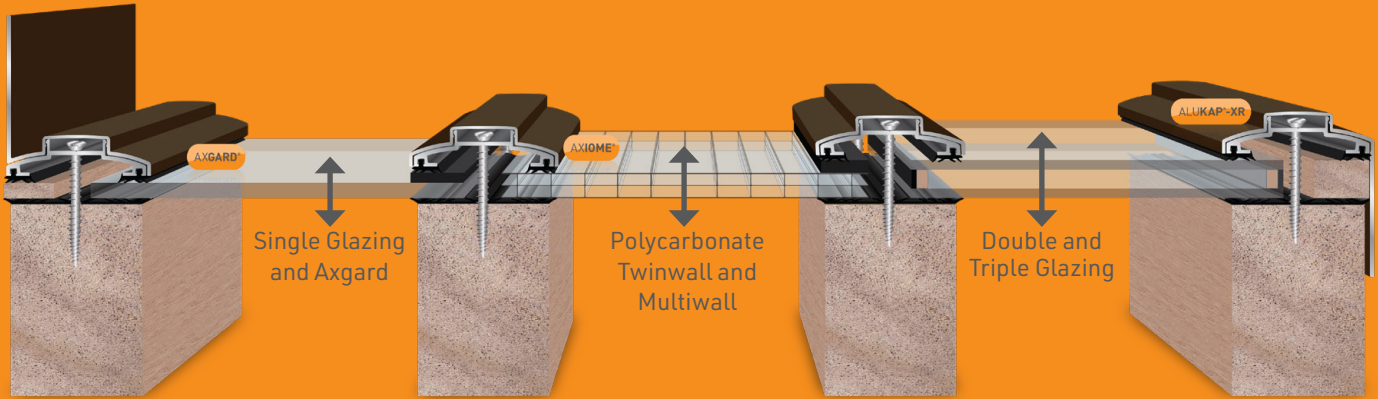


55mm Slot-fit Rafter Gasket

NOTE: Standard non-slot-fit gasket is the most popular option and works for the majority of residential and commercial applications.

Alukap®-XR : Suited to any Thickness or Type of Glazing

The diagram below indicates how the Alukap®-XR bar system is suitable for any thickness or type of glazing material – Axgard®, glass, Axiome® and double glazed glass units.



[View our Axgard® Solid Glazing Sheets](#)

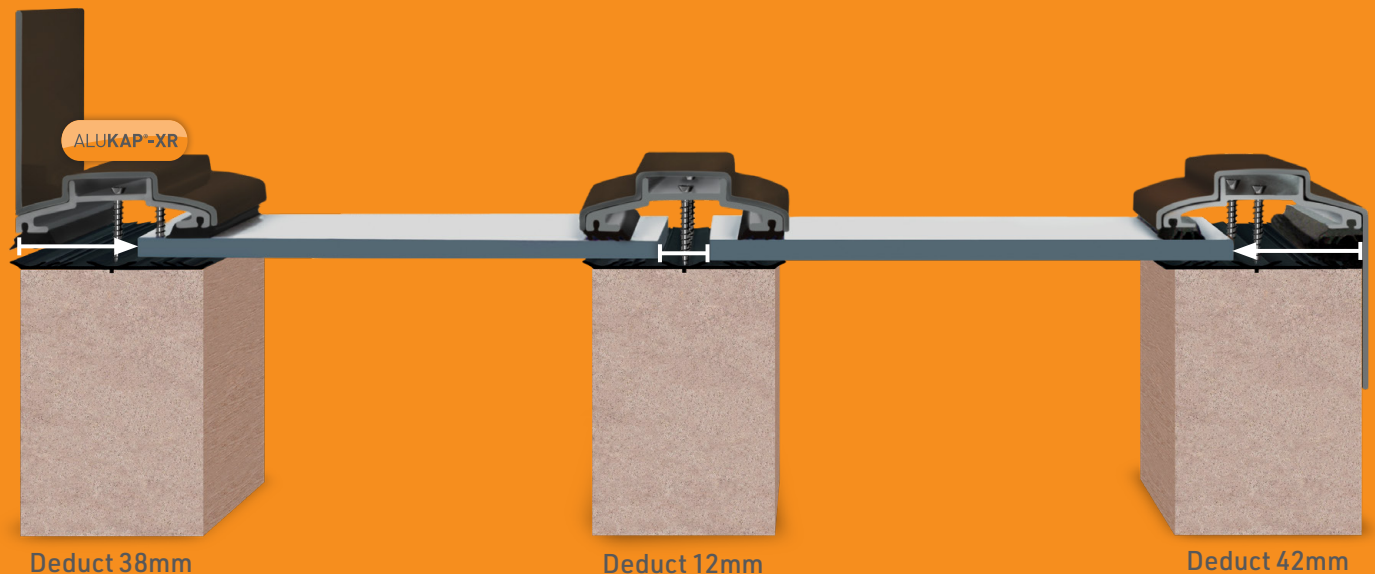


[View our Axiome® Multiwall Glazing Sheets](#)

Alukap®-XR : Glazing Deductions

Glazing deduction guidelines are shown below for the Alukap®-XR bar system for Alukap®-XR Wall bars, Alukap®-XR Glazing bars and Alukap®-XR Gable bars however, these may need to be amended depending on chosen glazing materials and glazing centres.

Samples are readily available to users to test and verify the exact sizes according to their site requirements.



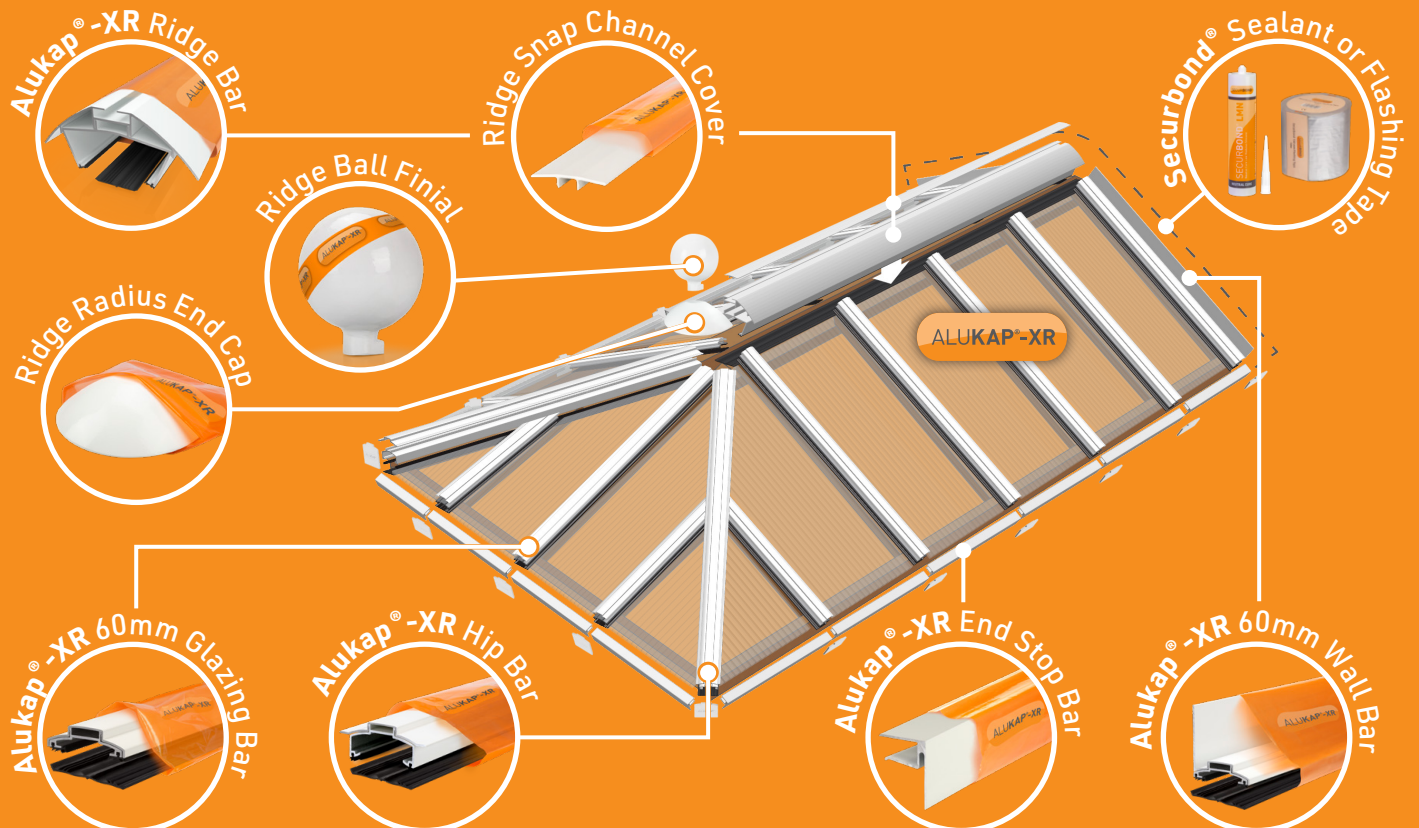
NOTE : Alukap®-XR Gable and Wall Bars ONLY

- When using Axiome® or Axgard®, the glazing panels can be extended right across the rafter under the outermost Alukap®-XR bar gasket. Or, you can add a timber packer under the outer edge gasket.
- Where Glass is chosen you WILL require a timber packer under the outer edge gaskets. 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.

Alukap®-XR : Example Lean-to Construction



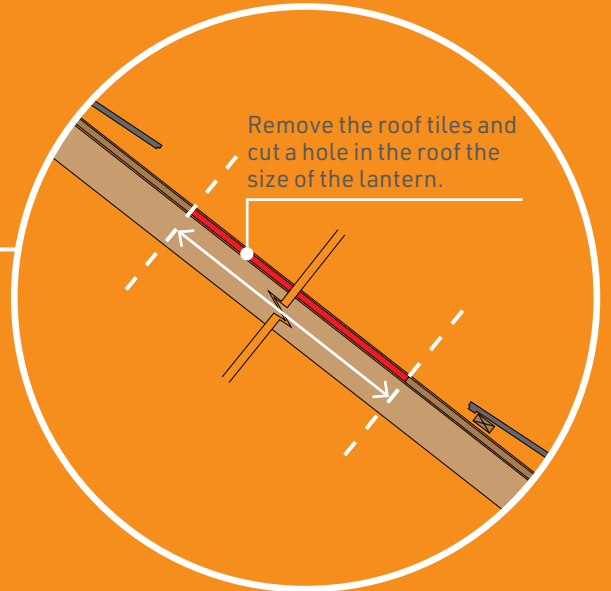
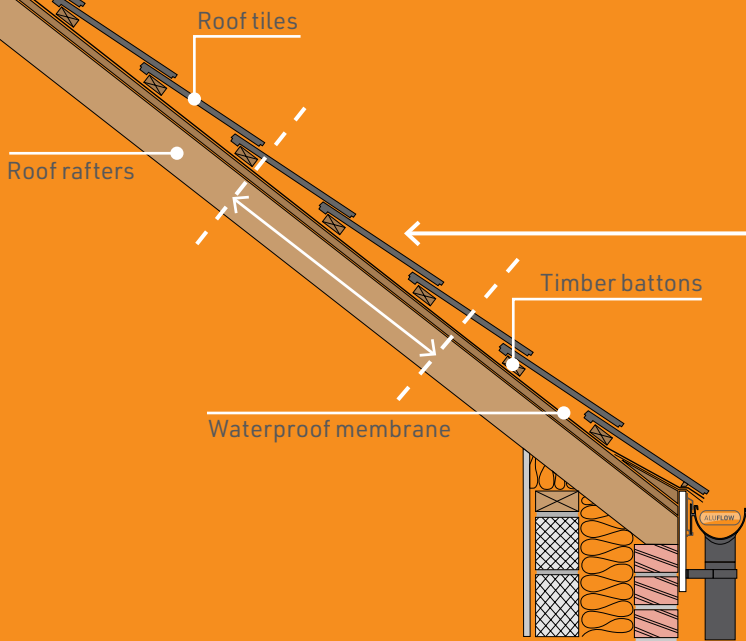
Alukap®-XR : Example Edwardian Roof Construction



Alukap®-XR : Example Rooflight Construction

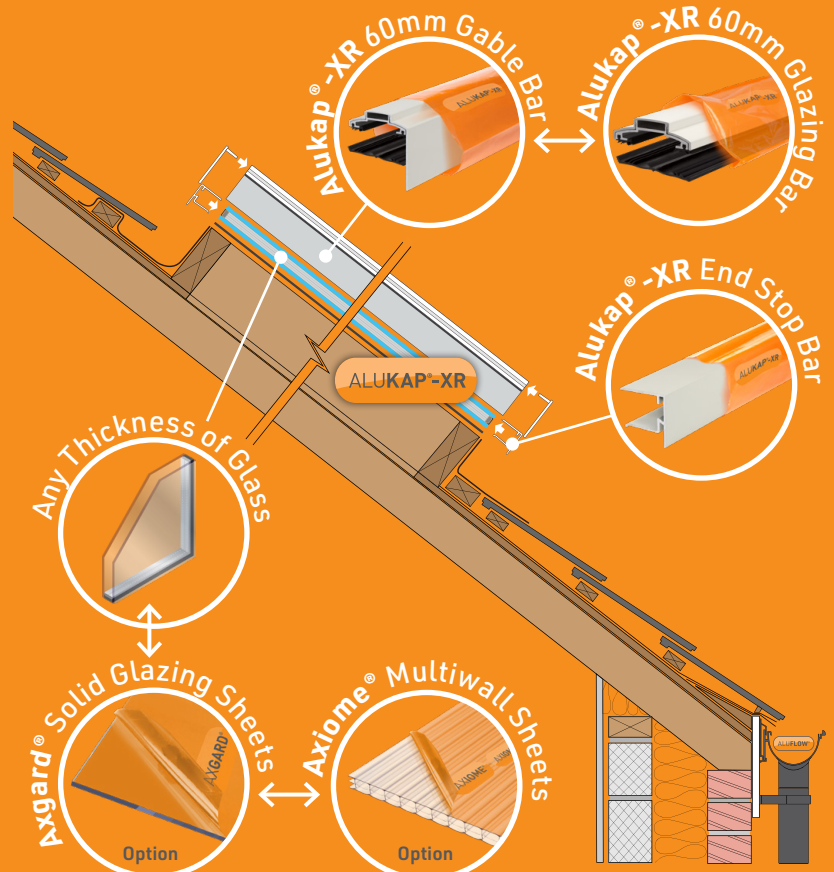
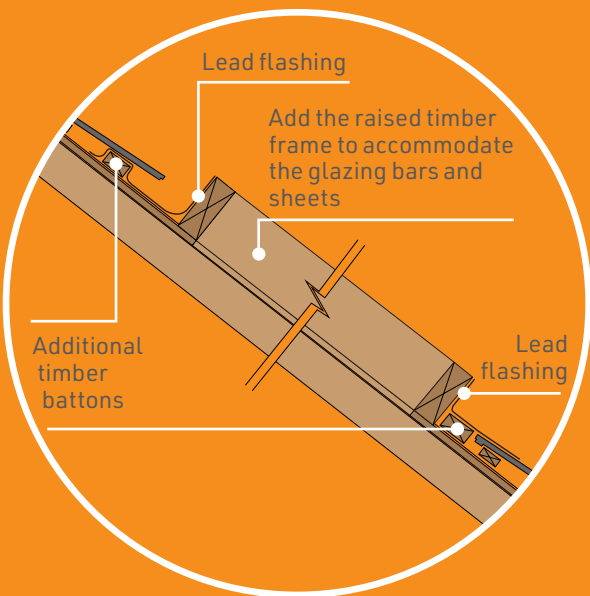
1 Complete roof detail prior to installation

2 Prepare the space for the roof lantern



3 Add the frame to support the glazing bars

4 Add the Alukap®-XR bars and glazing sheets



Please Note:

Alukap®-XR glazing bars are rafter supported.

These illustrations are not to scale and for indicative purposes only. Actual site applications will differ. Always seek professional advice from a structural engineer for your specific roofing application.

Alukap®-XR : Technical Data

The inherent robust qualities of Alukap®-XR are seen clearly in the technical data provided below. The tables below are intended for guideline use only, when seeking particular qualities for any specification.

Aluminium Extrusion

| Property | Standard / type | Measure | Value |
|---------------------------|-----------------|---------|---------------------|
| Aluminium strength | 60663 T6 | UTS | 215/nm ² |
| Dimensions and mechanical | EN755 | | |
| Chemical composition | EN573 | | |

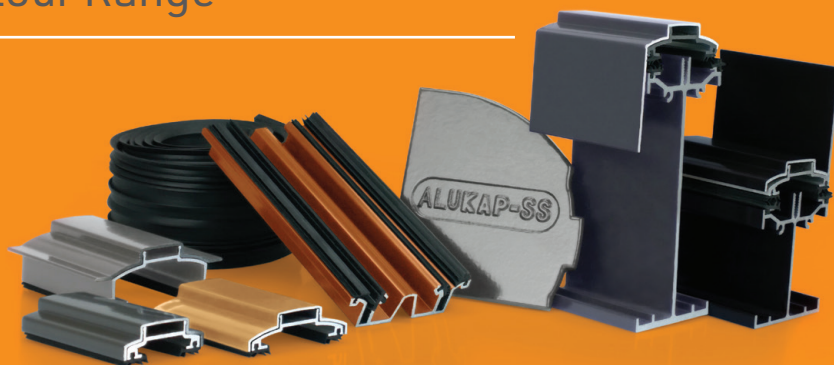
| Product / Property | Test | Value |
|------------------------------|----------------------|---------------------|
| Lubricant | Non-hazardous | Low toxicity |
| Lubricant properties | 25°C : 1.13 | Clear mobile liquid |
| Lubricant emulsion stability | | Excellent |
| Lubricant compatibility | | Active compatible |
| Gasket grade | Developed for BS7412 | Class A |
| Gasket tolerance | Produced to BS3734 | E1 |

Powder Coating

| Property | Measure | Value |
|---------------------------|---------|----------|
| Powder coating standard | BS6496 | EN12206 |
| Minimum thickness | Microns | 60 |
| Average typical thickness | Microns | 80 - 100 |

Alukap®-XR : Bespoke Colour Range

This standard palette of colours are designed to provide a core range of most popular colours that are frequently requested. By collating this suite of hues we are able to provide faster deliveries for your day-to-day requirements whilst still meeting a demands for a wider choice of matching profiles.



Bespoke Colours:

Alukap®-XR can be coloured to any RAL colour, using our special coating process, to match your project. Below are some of our most popular colours:

| | | | | | |
|----------------------------------|--------------------------------|------------------------------------|-----------------------------------|------------------------------------|----------------------------------|
| RAL 9010 Alukap® White | RAL 1011 Brown Beige | RAL 3003 Ruby Red | RAL 3005 Wine Red | RAL 5007 Brilliant Blue | RAL 5011 Steel Blue |
| RAL 6021 Pale Green | RAL 6005 Moss Green | RAL 6009 Fir Green | RAL 7035 Light Grey | RAL 7038 Agate Grey | RAL 7040 Window Grey |
| RAL 7005 Mouse Grey | RAL 7011 Iron Grey | RAL 7016 Anthracite Grey | RAL 8016 Mahogany Brown | RAL 8017 Chocolate Brown | RAL 8040 Alukap® Brown |



[View our full RAL colour options](#)

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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®-XR 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.