

ALUKAP®-XR

## Superior Roof Glazing System Technical Guide



## Simple Effective Roof Glazing

Roof glazing has always been a challenging task; rewarding if it goes well, and expensive if it doesn't. ALUKAP®-XR puts paid 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 neat aesthetics, ALUKAP®-XR's excellent performance makes it suitable for a huge variety of applications.

Available in two bar widths, plus a range of specialised bars to match, all with quality aluminium end caps, ALUKAP®-XR provides the ultimate roof glazing solution for even the worst weather. High quality fixings and gaskets are included with every bar, with a number of rafter gasket options available too.

Samples of ALUKAP®-XR are readily 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 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 sight lines providing impressive aesthetics to the glazing structure. The secret-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 structurally acceptable for each particular application.



### ALUKAP®-XR 45mm 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 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 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 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 : 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 Gable 60mm 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 : 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-fix top section allows all the hard work to be done first before simply snapping the upper profile in place. This system eliminates much of what would otherwise be a complex lead detail.



### ALUKAP®-XR Wall 60mm 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 flash 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 - PC	AKX898PC	AKX900PC	AKX903PC	AKX906PC
ALUKAP®-XR Top Wall Flashing - White	AKX898W	AKX900W	AKX903W	AKX906W

## ALUKAP®-XR : Endstop 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!

### Endstop 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 Chance of Slippage

This image shows a glazing assembly which combines the ALUKAP®-XR Endstop Bar glazed behind the ALUKAP® Standard Bar Endcap. 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 Endcap and Endstop bar provides a further constraint, thereby greatly reducing any chance of glazing slippage.

### Glazing Bar Assembly



## ALUKAP®-XR : 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 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 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:

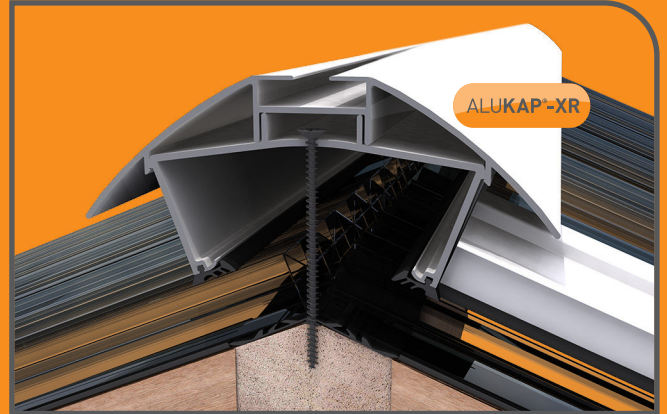
- ✓ One Piece Leak-Proof System
- ✓ Not Visible From Underneath
- ✓ Integral Glass Stops
- ✓ Suits Varying Angles
- ✓ Suits any Glazing Thickness
- ✓ No Need for Glazing Bar on the Top of the Glass Down the Valley



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 from adjoining 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 : Crests and Finials

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

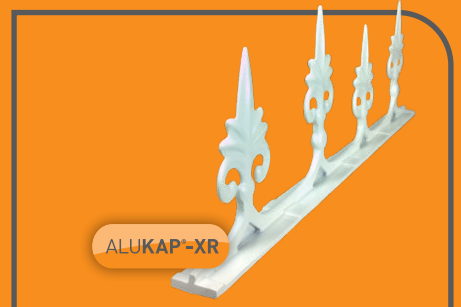


Description	Code
Ridge Finial	AKX774
Ridge Crests - 595mm	AKX775
Ball Finial	AKX776

Ridge Finial



Ridge Crest



Ball Finial



## ALUKAP®-XR : Ridge Endcaps

The ALUKAP®-XR Ridge has two endcap options. For roofs where the end of the ALUKAP®-XR Ridge is a gable end the flat finish of the ALUKAP®-XR Gable Endcap 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 Endcap provides excellent coverage for adjoining bars.

Description	Code
Gable End Ridge Cap	AKX772
Radius End Ridge Cap	AKX773

### Gable End Plate



### Radius End Cap



## ALUKAP®-XR: Lantern Pinnacle Top Cap

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

Description	Code
Roof Lantern Pinnacle Top Cap	AKX779

### Lantern Pinnacle Top Cap



## ALUKAP®-XR: Lantern Radius End Cap

The ALUKAP®-XR Lantern Radius Endcap 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, this Radius Endcap connects in to the Hip-Ridge profile and provides excellent cover for the intersection Hip bars.

**NOTE:** If you are using an ALUKAP®-XR Ridge and not an ALUKAP®-XR Hip Bar for the ridge then please use the AKX773 Ridge Radius Endcap.

Description	Code
Roof Lantern Radius End Cap	AKX778

### Lantern Radius End Cap





## ALUKAP® : Standard Bar Endcap

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

### Standard Endcap



Description	Code
Glazing Bar End Cap	AKX310

## SECURBOND® : Flashing Tape

SECURBOND® Tape provides a secure seal between your roof and connecting wall, which helps to prevent any water ingress.

### Flashing Tape



Description	Code
SECURBOND 150mm Flashing Tape 10m	AG73
SECURBOND 200mm Flashing Tape 10m	AG74

## ALUKAP®-XR : 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 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 that the Rafter Gasket can be quickly installed with perfect alignment before the glazing sheet is positioned on to the roof.

### Standard Bar Gasket



### 45mm Rafter Gasket



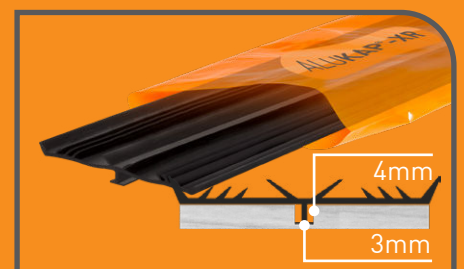
Description	Code
Standard bar gasket	AKX65
Rafter gasket 45mm	AT45
Rafter gasket 45mm slot fit	AT47
Rafter gasket 55mm	AT55
Rafter gasket 55mm slot fit	AT57



45mm Slot Fit



55mm Rafter Gasket

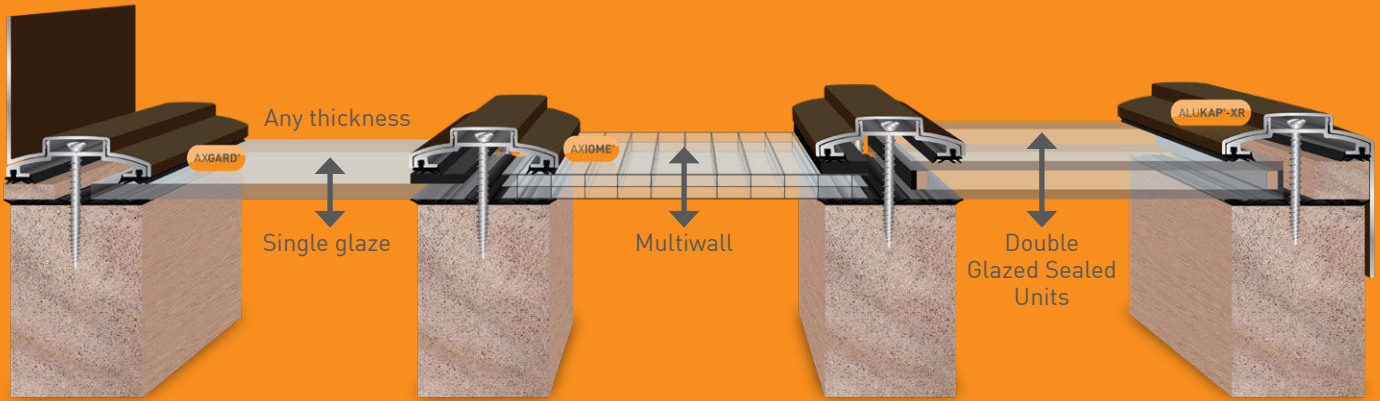


55mm Slot Fit

**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®, Double Glazed Glass Unit.



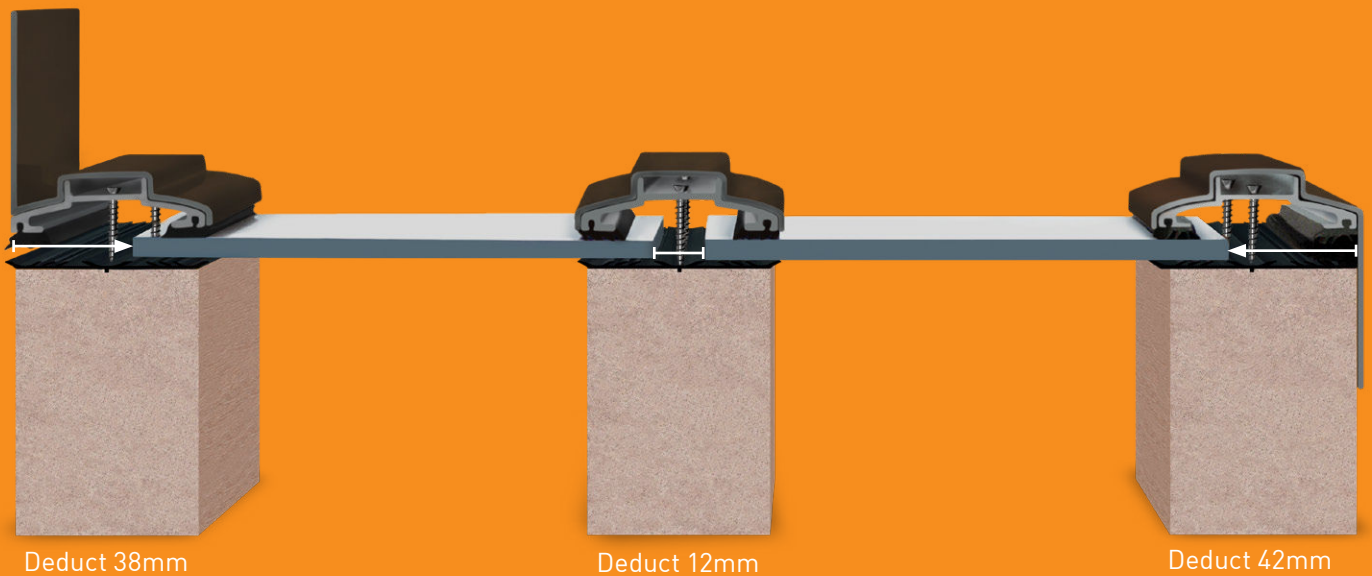
**AXGARD® Solid Glazing**

**AXIOME® Multiwall Polycarbonate**

## ALUKAP®-XR : Glazing Deductions

Glazing deduction guidelines are shown below for the ALUKAP®-XR bar system for ALUKAP®-XR Wall bars, ALUKAP®-XR standard/centre 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.



Deduct 38mm

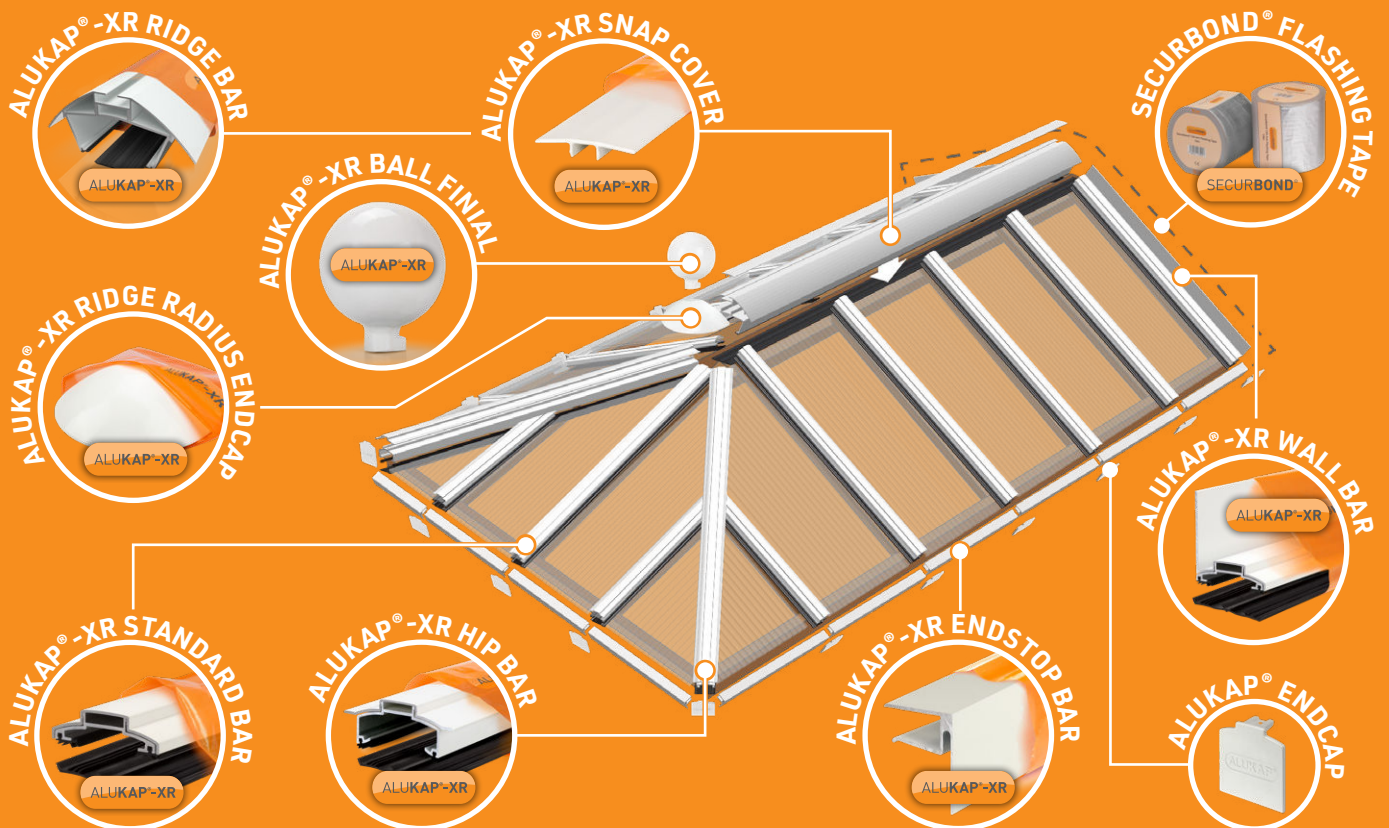
Deduct 12mm

Deduct 42mm

## ALUKAP®-XR : Typical Lean-To Styled Roof Assembly



## ALUKAP®-XR : Typical Edwardian Styled Roof Assembly



## 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 <sup>2</sup>
Dimensions & mechanical	EN755		
Chemical composition	EN573		

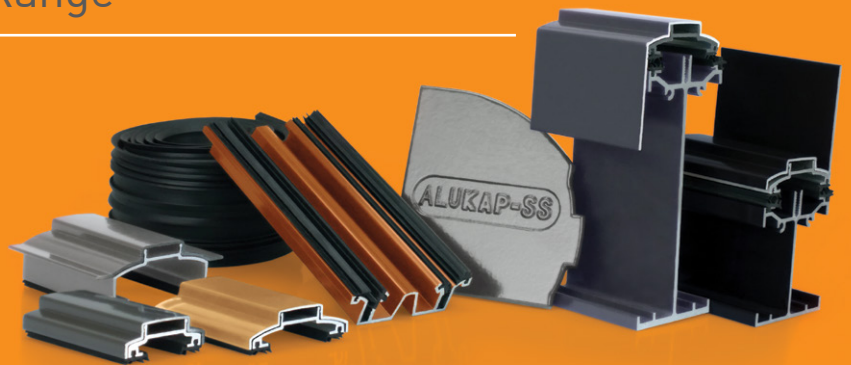
Product/property	Test	Value
Lubricant	Non-hazardous	Low toxicity
Lubricant properties	25°C : 1.13	Clear mobile liquid
Lubricant emulsion stability		Excellent
Lubricant compatibility		Active compatible
Gasket grade	Developed for BS7412	Class A
Gasket tolerance	Produced to BS3734	E1

### Powder Coating

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

## ALUKAP®-XR : Heritage 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:

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

[Click to view our full RAL colour options](#)

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## WARNING : REGISTERED DESIGNS & PATENTS

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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.