ALUKAP®-SS



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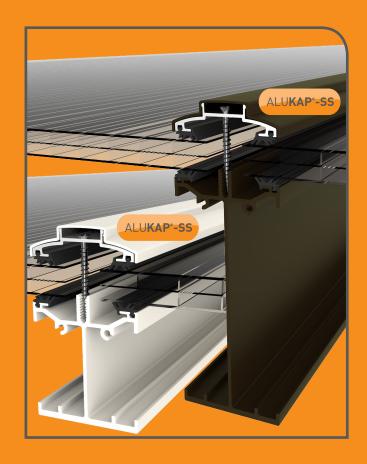


HIGH-SPAN GLAZING SOLUTION

Alukap-SS self-support system has been designed to combine exceptional strength ratios with an excellent and aesthetically pleasing finish.

The simplicity of Alukap-SS reduces installation time without reducing the quality of the finished product. Manufactured almost entirely from aluminium extrusion the Alukap-SS system provides an integrated low-weight high-strength structure.

Alukap-SS accommodates Axiome multiwall sheet in almost any thickness including 6mm, 10mm, 16mm, 25mm and 35mm. Additionally the high strength design of Alukap-SS is perfectly suited to single glass and double glazed glass units options of almost any thickness.

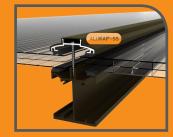


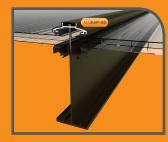
Common uses:

- ✓ Decking and Veranda Covers
- ✓ Covered Walkways
- ✓ Carports
- √ Shelters
- ✓ Play Area Covers
- ✓ Conservatories
- √ Swimming Pools
- √ Lean To's

Qualities:

- ✓ Excellent Spanning Capabilities
- ✓ No need for Timber Rafters
- √ Fast to Install
- ✓ All Powder-Coated Aluminium for Longevity
- ✓ Maintenance Free
- ✓ Suited to Single Glass, Double Glazed Units and Axiome multiwall











Alukap-SS Low Profile Bar

The Alukap-SS Low Profile glazing bar system offers a spanning range of between three and four meters depending on chosen loading ratings and choice of glazing material. This is ideal for shorter spans, and also areas where a centre purlin is provided to break the overall span, and provides a perfect solution where project budgets are limited.

This Alukap-SS Low Profile bar is suited to almost any glass or Axiome multiwall thickness.

Wall and Gable bar options are readily available to provide a suitable finish to the upper part of the glazing beams at wall abutments and gable ends.



Alukap-SS High Span Bar

This High Span Alukap-SS bar outperforms possibly every other bar on the market when it comes to self-supported spanning distances.

With a free-spanning capability between five and six meters this Alukap-SS High Span bar system can be used to create much more useable spaces with less posts and other supports required.

From Barbecue covered Decking areas, to double-width carports and children's play areas this beam creates a space to suit a wide range of commercial, public and residential structures.



Alukap-SS Eaves Beam

The Alukap-SS Eaves Beam provides a variable pitch solution to suit a wide range of required pitches. Manufactured using high quality powder-coated aluminium profiles this beam is designed with strength, aesthetics and longevity in mind.

There is an optional Alukap-SS Cap for structures where draft and wind proofing are essential, however where the structure is open there is a cost saving to be made by omitting the Alukap-SS Cap.

The intersecting Alukap-SS bars simply bolt in to the Alukap-SS Eaves Beam with M6 stainless steel bolts provided, and the cover strip clicks in to place concealing the fixing points. The Alukap-SS Eaves Beam also provides an installer-friendly Deep Flow Quadraflo Gutter bracket locator to increase speed and accuracy during installation.









Alukap-SS Wall Plate

Using the same profile as the Alukap-SS Eaves Beam, the Alukap-SS Wall Plate can be bolted to a wall or similar structure to provide a robust and straight wall plate to glaze from. As with the Eaves Beam the Alukap-SS Wall Plate has an optional Alukap-SS Cap for structures where draft and wind proofing are essential.

The Alukap-SS Wall Plate is designed to work with glazing pitches from 2.5 to 25 degrees.

Alukap-SS Glazing Deductions

Glazing deduction guidelines are shown below for the Alukap-SS bar system for Alukap-SS wall bars, Alukap-SS standard/centre bars and Alukap-SS gable bars. However these may need to 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.





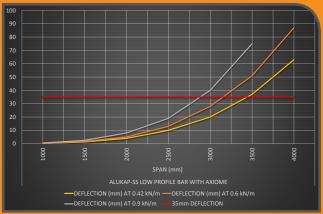
Alukap-SS Spanning

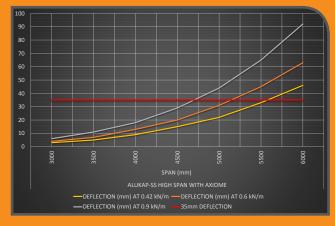
The following Alukap-SS spanning guides have been calculated by independent structural engineers and provide an excellent resource for specifying correct spans and bars specification depending of the estimated wind and snow loading requirements for the specific location. NOTE: loads are unfactored (i.e. do not include partial safety factors of 1.2 for wind or 1.33 for imposed)

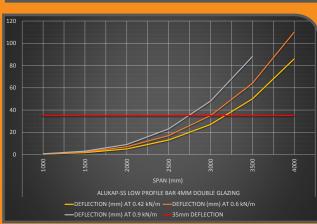
These Alukap-SS spanning guides show the deflection of the bars at three given loads per linear metre for several different length options. There is a set for the three most common glazing options for both the Alukap-SS Low Profile bar and also the Alukap-SS High Span bar. Notwithstanding separate glazing sheet limitations these figures are the expected results when the bars are spaced at 1000mm centres, where force on one linear meter of bar equates to the same force for one square meter of structure.

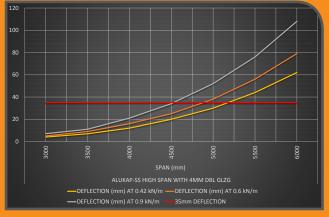
For most glazing sheets 1000mm width centres is normally too wide, however from these figures you can simply calculate your desired width and then check the width. For example, for a roof requiring 0.6kN of load, but where the Alukap-SS bars are set at 700mm centres, you can take the 0.6kN load and divide by 1000mm width, then multiply back up by 700mm width and you will find the effective force on the actual Alukap-SS bar is reduced to 0.42kN per linear meter: $0.6 / 1000 \times 700 = 0.42$. Therefore by reducing the glazing centres some incredible free span distances can be

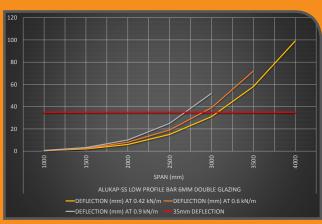
Samples are available to users to test and verify the exact sizes according to their site requirements, and users should not rely on the data below, but have a site specific structural report created taking in to consideration all variants.

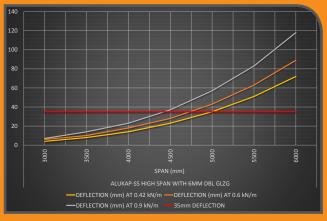












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Patent Pending GB 1 517 553.2