



SUPREME
PLASTIC ROOFING

CRYSTALITE
ARCHITECTURAL GLAZING SYSTEM 



Innovative. Versatile.
Superior.



Create & enhance your outdoor entertainment area with contemporary, beautifully stylish **Crystalite Glazing Panels**

About Crystalite Glazing Panels...

Crystalite Glazing panels are an extruded acrylic sheeting [PMMA] product. The panels are a transparent thermoplastic and are shatter resistant with a density of less than half that of glass. Crystalite glazing panels have good impact strength and clear panels provide up to 92% of visible light.

Crystalite glazing provides a contemporary stylish look to most outdoor entertaining areas, adding value and is aesthetically pleasing on the eye. Crystalite is available in a range of lengths and colours to please the most discerning home owner.

Installation

Crystalite is available from specialty plastic distributors who can supply and install the product. However, Crystalite installation should also be considered by competent DIYers, as the glazing system is relatively straightforward.

Care & Maintenance

Rinse sheet with lukewarm water only, do not add detergents or soap to the water. Using a soft, gentle cloth or sponge, lightly wash to loosen any dirt and residue but do not scrub aggressively or use brushes or harsh instruments. Dry with a soft, clean cloth to prevent water spotting. Do not clean in direct sunlight if possible.

BEWARE: no chemicals are to be used to wash Crystalite sheets as this will result in cracking or crazing of the sheet and will void the warranty.

INSTALLATION INSTRUCTIONS

1. Measure and cut the aluminium joiner to the required length, allowing at least 30mm overhang beyond the rafter at the bottom end for the end cap. Predrill you fixing holes through the center of the base piece while still on the ground at 400mm or 300mm if in a high wind zone, make sure to get these centered. Place the base piece onto your rafter, with the fixings supplied, attach the base piece of the joiner to your rafter.



**please note, if you are using a flashing OR back channel on the high end, you would install this first.*

2. Once in place, measure and cut the CrysLaitite if required, allow for 3mm expansion down each side of the joiner and 3mm per lineal meter on the high end. Cut with a sharp finme tooth saw blade. If you have the materials but have not yet worked out your sheet widths, you will need to take off 26mm from your rafter centers for the joiner gain (13mm each side). This 13mm per side allows for expansion. For example, 646mm rafter centers less 26mm = 620mm sheet width.

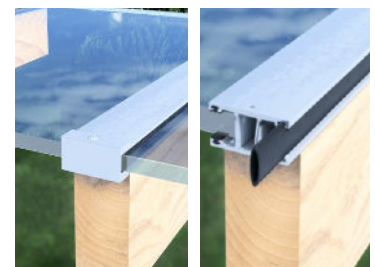
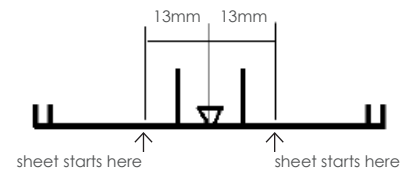
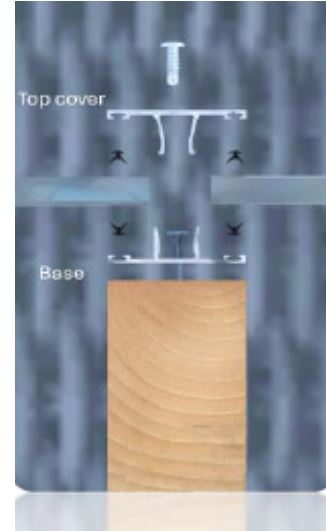
PLEASE NOTE**, there can a be a manufacturing tolerance of up to 5mm so we recommend you set your rafters once you have received and measured your sheet. **If you are powder coating your glazing bar and end caps, you will need to drill a 3mm hole in the center of the end cap before powder coating.

3. Slide the butterfly rubber into the 4 channels on the top and bottom pieces of the aluminium joiner. nlf you are using a joiner for an outside edge, you do not need to run butterfly rubber down the last outside channels, leave these free. This is where you will run he edge strip once the top cover of the joiner has been clicked into place.

4. Before placing the sheets into position, remove 100mm of the protective film on both sides which will be going into the joiner. Place the sheets into position and ensure you have a 3mm gap from the inside of the aluminium on both sides. Place the top cover of the aluminium joiner into the base and click into place. You will need to apply some force to fully lock the top ccover in, run a lengh of timber along he top cover and tap into place with a mallet or hammer, ensuring it is locked in evenly all the way along. Please note that you must place sheets on both sides of the joiner before locking the top cover down. Remove the remaining protective fi;lm as you go once the joiner is locked into place.

5. Once the joiner has been clicked together, we recommend fixing a stainless steel screw and bonded washer through whole joiner every 1 meter or 500mm in high wind areas. If you are using your joiner on both outside edges, you will need to slide the supplied edge strip into the outside edge of the joiner before screwing the cap on. Fit the supplied 50mm end cap over the end of the joiner. This can be fixed with a single screwed through the top.

6. With a hose, give the sheets a spray down from the top to clear away any fust and debris from the installation process



Technical Information & Warranty

AVAILABILITY

Sheet Width	620mm (maximum)		
Length	3m	4m	6m
Colour Tints	Clear	Grey	Diffused Opal
Roof Pitch	Minimum of 5°		

WARRANTY

15 Year Lifetime Warranty

TECHNICAL (GENERAL)

Density	ISO1183	1.19 (0.0429)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%

MECHANICAL

Tensile Strength	ISO527-2	70 (10152)	MPa (psi)
Elongation at Break	ISO527-2	4	%
Tensile Modulus	ISO527-2	3000 (435097)	MPa (psi)
Flexural Strength	ISO178	110 (15956)	MPa (psi)
Flexural Modulus	ISO178	3000 (435097)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	1.8 (0.856)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	1.5 (0.713)	kJ/m ² (ft-lb/in ²)

THERMAL

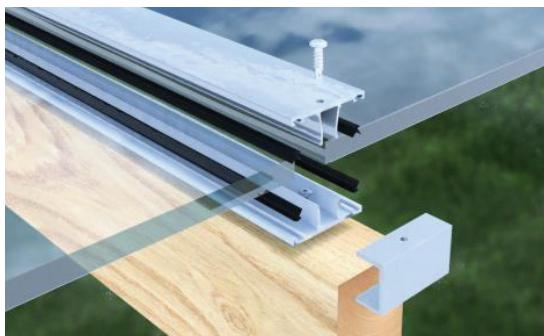
Vicat Softening Temperature, B50, Annealed	ISO306	102 (215)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	92 (197)	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10 ⁻⁵
Continuous Service Temperature	-	70 (158)	°C (°F)
Maximum Short Term Temperature	-	80 (176)	°C (°F)
Degradation Temperature	-	>280 (>536)	°C (°F)

OPTICAL

Light Transmission (3mm / 0.118')	DIN5036-3	92	%
Refractive Index	DIN5036-3	1.49	-

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Supreme Plastics Roofing Limited NZ Ltd assumes no liability for use of information presented herein.

Glazing Bar & Accessories



Glazing Bar Top & Bottom Set Mill finish

Includes TPV rubber seals and optional side edge strips.

End cap and end cap fixing screws also included

- 3.05m - GLZBALS3.05M
- 4.00m - GLZBALS4.00M
- 6.10m - GLZBALS6.10M



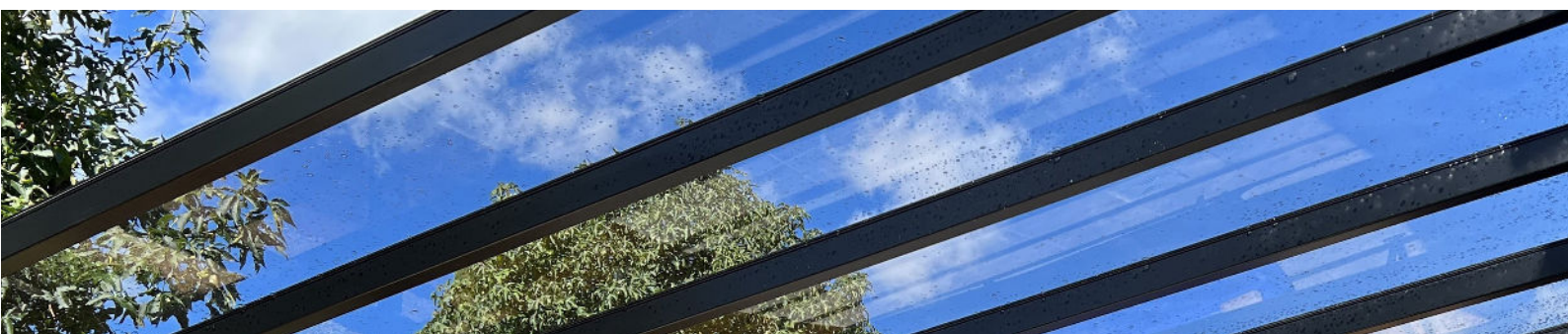
Glazing Bar installed showing edge strip

The plastic edge strip is used to close both outside edges, these are included in the price of the glazing bar.



Glazing Bar installed showing end cap

Aluminium end caps and end cap fixings are supplied and included in the price of the glazing bar.



GLAZING BAR

Supreme Plastics Roofing Limited Glazing Bars are stocked and supplied in standard lengths of 3050mm, 4000mm and 6100mm and is suitable for 6mm and 8mm thick sheeting. Our Glazing bars come complete as a set which includes: base plate, top cap, TPV rubber seals, UV Stabilised edge strips for outside edges and end caps. **Fixing screws are sold separately and can be purchased via Supreme Plastics Roofing Limited.**

They are designed to be installed on existing timber or aluminium rafters with fixings every 300mm to 400mm depending on the wind zone.

Dimensions are 50mm x 19mm with a total gain of 26mm.

Perfect for DIY, they are sold in a mill finish, ready for powder coating and are great for use on pergolas, awnings, canopies, green houses, conservatories, carports and more.

Optional back channel available.



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