

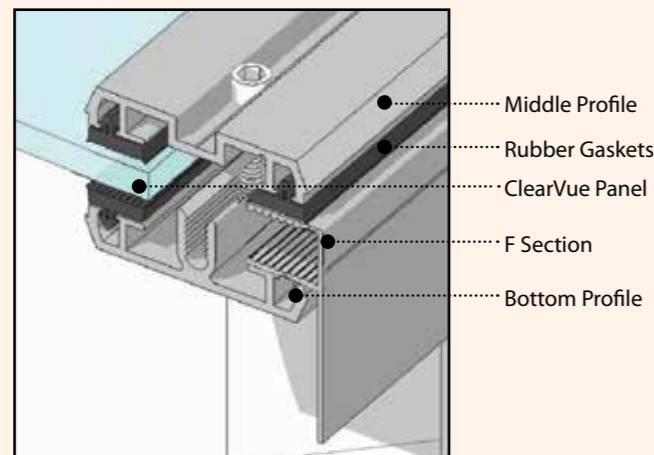


## Sheet Sizes & Colours

Available in various sizes and colours to suit almost any outdoor situation.

Lengths	Widths	Thickness	Colours
3700mm & 5100mm	586mm 736mm	6mm 8mm	Clear & Grey

## Components



## Fixings

Socket Cap Screw  
3/16 x 3/4 Thread  
304 Stainless Steel

Pan Head Square  
Drive Self Tappers  
8g x 50mm  
Stainless Steel

## Features & Benefits

- High Impact Resistance
- 15 Year Full Replacement
- Sleek Modern Look
- Easy Installation
- Very Adaptable
- High UV Protection

## Typical Applications

- Canopies and awnings
- Porches and verandas
- Carports or garages (parking shelters)
- Domestic swimming pools
- Gazebos or pergolas
- Sunrooms
- Outdoor play or family areas
- Skylights

For general maintenance and cleaning, use a high pressure hose or water blaster at least twice a year. Keep the water blaster tip at least 450mm away from the ClearVue Glazing Panels and Profiles. Note: Never wipe panels when dry.



Scan this QR code to view our easy How To Videos on YouTube Channel, PSPNewZealand.

PSP FREEPHONE 0800 786 883  
www.psp.co.nz

V.05/14

## Pre-order Checklist - Fixing to Purlins

1. Determine how many ClearVue Glazing panels will be required for the project. Base this calculation on a 600mm centre to centre of the Aluminium glazing bar spacing for the 586mm Panel. And 750mm centre to centre of the Aluminium glazing bar spacing for the 736mm Panel.
2. The recommended Purlin spacing for the ClearVue Roofing system is 1.2 meter for low to moderate wind/snow areas. And 1 metre spacing for high wind/ heavy snow load expectations.
3. Calculate the Glazing Panel & Glazing Bar quantity. For example, 11 rafters will require 10 x Glazing panels – 11 x Glazing Bars, 2 x F Sections, Pan Head Square Drive Self Tappers 8g x 50mm Stainless Steel Fasteners (2 per Purlin) & Socket Cap Screws 3/16 x 3/4 thread 304 Stainless Steel (1 every 150mm).
4. For simple installations, e.g. Open end to open end to the sides of the structure, you will require 2 x F sections to fill the gap where a panel would have been. This equalises the glazing bar pressure along with giving the bar a neat end finish. Note: When the F Sections are used it is necessary to omit the bottom sealing rubber to achieve the correct distance between the extrusions, see Diagram 8.



## TOOLS REQUIRED

- Hack Saw • Skill Saw • Irwin Marathon PVC cutting blade for skill saw (recommended for cutting panels) • Hex Key (4mm) • Square Drive (number 2) • Screw Bit • Pozi Drive Screw Driver • Rubber Mallet • Electric/Battery Drill • Measuring Tape

## Pre-order Checklist - Fixing to Rafters

1. The 6mm gauge sheet ClearVue Roofing System requires a rafter structure that has its rafters spaced at 600mm centres. The panel width is 586mm. The 8mm gauge sheet ClearVue Roofing System requires a rafter structure that has its rafters spaced at 750mm centres. The panel width is 736mm.
2. Calculate the Glazing Panel & Glazing Bar quantity. For example, 11 rafters will require 10 x Glazing panels – 11 x Glazing Bars, 2 x F Sections & Pan Head Square Drive Self Tappers 8g x 50mm Stainless Steel Fasteners (1 every 300mm plus 2 extra per length).
3. For simple installations, e.g. Open end to open end to the sides of the structure, you will require 2 x F Sections to fill the gap where a panel would have been. This equalises the glazing bar pressure along with giving the bar a neat end finish. Note: When the F sections are used it is necessary to omit the bottom sealing rubber to achieve the correct distance between the extrusions, see Diagram 8.

Please note: The performance of the ClearVue Translucent Roofing System may be affected by excessive movement of the timber where it is supported by rafters only over longer spans. Please consult with your builder/architect if you are unsure about the stability of the structure before commencing installation of the product or enquire about our Span Bar system.



## TOOLS REQUIRED

- Hack Saw • Skill Saw • Irwin Marathon PVC cutting blade for skill saw (recommended for cutting panels) • Hex Key (4mm) • Square Drive (number 2) • Screw Bit • Pozi Drive Screw Driver • Rubber Mallet • Electric/Battery Drill • Measuring Tape

PSP  
BUILDING BRANDS  
www.psp.co.nz

**ClearVue**  
TRANSLUCENT ROOFING SYSTEM



**The look of glass at a fraction of the cost**

Branz Tested

**ClearVue**  
TRANSLUCENT ROOFING SYSTEM

## Bringing the outdoors in.

ClearVue's high quality flat panel design will make the most out of natural light, without the weight or cost of glass panels.

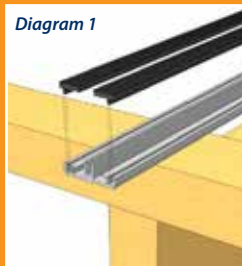
The ClearVue Glazing Panels offer durable, fade resistant performance to ensure year in year out natural lighting - helping warm spaces in winter, or to reduce the harsh UV impact of summer sun whilst still enjoying an outdoor lifestyle. The ClearVue Glazing Panels are easily installed, require less structural support than heavy glass alternatives, are highly cost competitive and capable of lasting for many years with little maintenance.

ClearVue provides a stylish lighting source for naturally lit areas - and the peace of mind of a 15 year warranty.

## Fixing Instructions - Purlin

1. Cut the ClearVue Glazing Panels, F Sections & Glazing Bars to the required length. Allow 50mm overhang into gutters. Note: The ClearVue Panels will thermally expand from heat & contract when cold. Allow 5mm per metre panel thermal expansion. E.g. 3m long panels require a length reduction of 15mm. Therefore at a Glazing Bar length of 3m make your panel length 2.985m.

Diagram 1

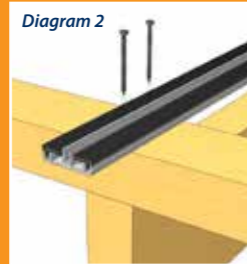


2. Before placing any of the ClearVue components on the structure. Insert the Rubber Gaskets into the Glazing Bar extrusions. 2 per bottom 2 per top section. See Diagram 1. Note: When using F Sections to finish of the ends of your roof: For 6mm gauge sheet omit the bottom outside rubber seal from the Glazing Bar Bottom section from the first Glazing Bar and last Glazing Bar. With the 8mm gauge sheet omit both the outside rubbers from the top and bottom Glazing Bar sections.

3. Use the narrow line extruded into top the centre of the of the Aluminium extrusion top as your centre point for drilling into the centre of the Aluminium extrusion tops and bottoms.

4. Pre-drill the top sections of the glazing bars with 5mm diameter holes at 150mm centres along the entire length of the top section. Be sure to drill the top section away from the bottom section to avoid damage to the bottom section securing centre U channel. Note: Start drilling at least 30mm from the lower end to allow the end cap fixing screw clear entry. During the 150mm centre to centre pre drilling process make sure that the purlin fixing locations do not coincide with these holes.

5. **Starting from the centre of the structure**, fix all of the **bottom** sections to the purlins using 2 of the 8g x 50mm stainless steel fasteners per purlin. Utilising the underside narrow line & then drilling a 5mm hole directly through the centre U channel with the heads of the screws seated on the top of the U channel.



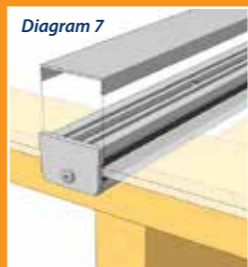
7. Peel 50mm of the protective masking back from the long sides of each panel (both top & bottom side) before installing the panel. Be sure to leave the remainder of the protective masking on until the job is complete to avoid damage & unwanted dirt build up.



See Diagram 2. Note: Starting from the centre of the structure, will ensure that the 2 most outer panels are of an equal size. If necessary these panels can be cut to the new width on site.

6. Fit the end caps to the end of the Glazing bars at the gutter end only, using the 10g x 25mm Stainless steel Pozi Self Drilling Screws. See Diagram 3. Note: Ensure the end cap is fit flush to the bottom of the extrusion.

8. **Start by Placing 2** of the ClearVue Glazing Panels side by side, spanning between the glazing rubbers onto the bottom sections of the aluminium extrusions. Be sure that these panels are centered by using the 2mm spacers provided. See Diagram 4. Note: Install the panel so that the sheet is hard up against the end cap with the thermal gap at the top of the Glazing Bar.



9. Fix your first **top** aluminium extrusion where the panels intersect by using the 5g x 20mm stainless steel cap screws at 150mm centres. See Diagram 5 & 6. Note: Wind down the cap screws until firmly seated, followed by a quarter turn of the screw to give the correct fixing pressure. (Over tightening of the cap screws will cause the panels to bow due to thermal expansion.)

10. Fit the Aluminium extrusion covers as you go (tap on with a rubber mallet until they click). See Diagram 7.

11. After the initial 2 panel placement install one panel at a time leaning over the installed panel securing the top sections as you go. Repeat the process to both ends of the structure.

12. Modify the last panel width (if necessary) & fit the F Sections. Insert the last of the cap screws. See Diagram 8. Note: Crawl boards will be necessary to complete the roof, for health & safety reasons do not walk directly onto the ClearVue Translucent Roofing structure.

13. Remove the protective masking from the under and over sides of the ClearVue Glazing Panels. Note: Do not clean the panels dry. Use an approved cleaner to remove any unwanted marks.

## Fixing Instructions - Rafter

1. Cut the ClearVue Glazing Panels, F sections & Glazing Bars to the required length. Allow 50mm overhang into gutters. Note: The ClearVue Panels will thermally expand from heat and contract when cold. Allow 5mm per metre panel thermal expansion. E.g. 3m long panels require a length reduction of 15mm. Therefore at a Glazing Bar length of 3m make your panel length 2.985m.



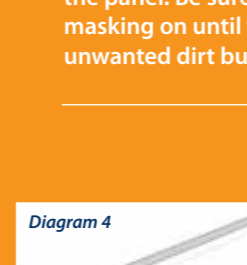
2. Before placing any of the ClearVue components on the structure. Insert the Rubber Gaskets into the Glazing Bar extrusions. 2 per bottom 2 per top section. See Diagram 1. Note: When using F Sections to finish of the ends of your roof: For 6mm gauge sheet omit the bottom outside rubber seal from the Glazing Bar bottom section from the first and last Glazing Bar. With the 8mm gauge sheet omit both the outside rubbers from the top and bottom Glazing Bar sections.

3. Start by Pre drilling 2 x 5mm holes into all of the glazing bar bottom sections 100mm in from each end, drilling from the underside utilising the extruded line as a centre point. Note: Drill to create a hole only, the drill will foul if you attempt to drill into the extruded U channel. These holes will be used during the preliminary attachment of the glazing bar bottoms during your set out.

4. Whilst still at ground level, join the top & bottom sections of the Glazing Bar together at both ends with electrical or similar type tape. Note: This is a temporary measure as both sections require drilling together as pairs to ensure hole matching. Mark each pair discreetly to ensure that the holes match precisely.

5. Drill all of the paired lengths from at 300mm centres making sure that your first hole is at least 60mm from the gutter end start position. Note: The use of a 2mm pilot drill is essential for this process drilling completely through to the other side of the joined pairs. Use the 5mm bit one side at a time to complete the process. The 5mm bit cannot be used to drill directly through both sections at the same time, due to fouling difficulties arising from grooves located in the bottom section U channel.

6. Disassemble the Glazing Bars into the marked pairs.

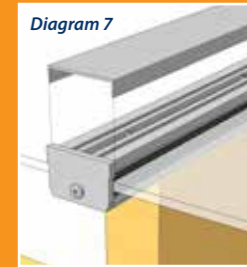
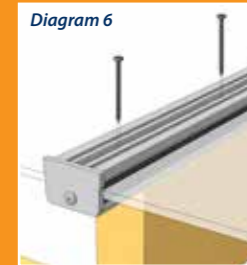
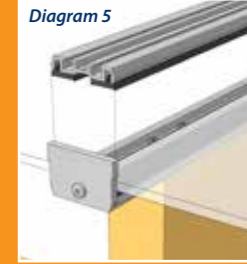


7. Fix all of the bottom Glazing Bar sections to the Rafters at the correct centres (600mm for 6mm sheet & 750mm for 8mm sheet) utilising the 100mm from both ends of the pre-drilled holes, as mentioned in step 3. Fasten directly through the U channel with the screw heads seated on top of the channel. Use 2 of the Pan Head Square Drive Self Tappers 8g x 50mm Stainless Steel Fasteners during this process channel. See Diagram 2.

8. Fit the end caps to the end of the Glazing Bars at the gutter end only, using the 10g x 25mm Stainless Steel Pozi Self Drilling Screws. See Diagram 3. Note: Ensure the end cap is fit flush to the bottom of the extrusion.

9. Peel 50mm of the protective masking back from the long sides of each panel (under and over sides) before installing the panel. Be sure to leave the remainder of the protective masking on until the job is complete to avoid damage and unwanted dirt build-up.

10. **Start by Placing 2** of the ClearVue Glazing Panels side by side, spanning between the glazing rubbers onto the bottom sections of the aluminium extrusions. See Diagram 4. Be sure that these panels are centred by using the 2mm spacers provided. Note: Starting from the centre of the structure and working left and then right. Install the panel so that the sheet is hard up against the end cap with the thermal gap at the top of the glazing bar.



15. Remove the protective masking from the under and over sides of the ClearVue Glazing Panels. Note: Do not clean the panels dry. Use an approved cleaner to remove any unwanted marks.

11. Fix your first top aluminium extrusion where the panels intersect by using the Pan Head Square Drive Self Tappers 8g x 50mm Stainless Steel Fasteners at 300mm centres. See Diagram 5 & 6. Note: Over tightening of the Pan Head Square Drive Self Tappers 8g x 50mm Stainless Steel Fasteners will cause the panels to bow due to thermal expansion.

12. Fit the Aluminium extrusion covers as you go (tap on with a rubber mallet until they click). See Diagram 7.

13. After the initial 2 panel placement install one panel at a time leaning over the installed panel securing the top sections as you go. Repeat the process to both ends of the structure.

14. Modify the last panel width (if necessary) & fit the F Sections. Insert the last of the cap screws. See Diagram 8. Note: Crawl boards will be necessary to complete the roof, for health & safety reasons do not walk directly onto the ClearVue Translucent Roofing structure.

### ROOF PITCH

ClearVue Translucent Roofing System will provide correct run off of rainwater when the roof pitch is 10° or greater. If a flatter pitch is required (minimum 5°) then additional weatherproofing should be attained through use of extra flashing or sealing with a neutral cured silicone.

### FOR MORE DETAILS

Full installation and maintenance details can be found in the ClearVue Translucent Roofing System Technical Manual.