

# 4312PC PSP CLEARVUE ROOFING SYSTEM

## 1. GENERAL

*If you have pre-customised this work section using the "questions and answers" provided as part of the downloading process, it may be necessary to amend some clauses to suit the final project-specific version.*

*The section must still be checked and customised to suit the project being specified, by removing any other irrelevant details and adding project-specific details and selections.*

This section relates to the supply and fixing of **PSP Limited** ClearVue flat plastic sheet roofing and components to open sided external porch and veranda structures.  
*PSP flat sheet products are not suitable as roofing where weathertight design is required.*

### 1.1 RELATED WORK

Refer to 7411 RAINWATER SPOUTING SYSTEMS for rainwater disposal.  
*Include cross references to other sections where these contain related work.*

*This section does not include rainwater gutters, spoutings and pipework. Some flashing work is also often covered elsewhere.*

#### Documents

### 1.2 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

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*List any cited documents or delete clause.*

### 1.3 MANUFACTURER'S DOCUMENTS

Manufacturer's and supplier's documents relating to work in this section are:

ClearVue System Architectural Brochure  
ClearVue Roofing Datasheet  
ClearVue Roofing - Components, Installation & Maintenance Manual  
ClearVue Roofing System - Design, Span Table & Technical Manual  
ClearVue Roofing Technical Statement  
ClearVue Roofing Technical Drawings  
BRANZ Appraisal 877 - ClearVue Roofing System

Copies of the above literature are available from PSP Limited

Web: [www.clearvue.co.nz](http://www.clearvue.co.nz)

Email: [info@psp.co.nz](mailto:info@psp.co.nz)

Telephone: 0800 786 883

Facsimile: 09 415 2809

*It is important to ensure that all personnel on site have access to accurate, up to date technical information on the many products, materials and equipment used on a project. In most cases individual products are not used in isolation, but form part of a building process. Also a particular manufacturer's and/or supplier's requirements for handling, storage, preparation, installation, finishing and protection of their product can vary from what might be considered the norm. Access to technical information can help overcome this potential problem.*

#### Warranties

### 1.4 WARRANTY - INSTALLER/APPLICATOR

Provide an installer/applicator warranty:

5 years: For installation

- Provide the warranty in the Plastic Roofing installer's standard form.
- Include a copy of the **PSP Limited** maintenance requirements with the warranty.
- Commence the warranty from the date of completion of the roof.

Refer to the general section 1237 WARRANTIES for additional requirements.

*Check general section 1237 WARRANTIES for the date of commencement of warranties; which is normally practical completion of the contract. Refer to the chosen conditions of contract as it may also contain information on warranties/guarantees.*

1.5 WARRANTY - MANUFACTURER/SUPPLIER - CLEARVIEW ROOFING SYSTEM

Provide a material manufacturer/supplier warranty:  
15 years For defects in material and manufacture

- Provide this warranty on the manufacturer/supplier standard form.
- Commence the warranty from the date of purchase

Refer to the general section 1237 WARRANTIES for additional requirements.

*Modify or expand the clause to suit project or manufacturer/supplier requirements, options include:*

- *Change the standard form to be used (check with the manufacturer/supplier, use the general section 1237WA WARRANTY AGREEMENT if required)*
- *Commence the warranty from the date of purchase (check with the manufacturer/supplier)*

**Requirements**

1.6 QUALIFICATIONS

Workers / Installers / applicators to be experienced, competent trades people familiar with the materials and techniques specified.

*This clause includes generic text which should be expanded only if there are specific qualification requirements.*

1.7 INFORMATION FOR OPERATION AND MAINTENANCE

Provide relevant PSP Limited maintenance requirements at completion of the work.

*Refer to PSP Limited documents for maintenance guidance:*

1.8 NO SUBSTITUTIONS

Substitutions are not permitted to any of the specified systems, components and associated products listed in this section.

**Performance**

1.9 CO-ORDINATE

Co-ordinate to ensure substrate and preparatory work is complete and other work programmed in the order required for access and completion of the roof.

1.10 FIRE - CLEARVUE SHEETS

ClearVue Roofing System is for the construction of open sided porch or veranda type roof structures attached to buildings that are Risk Group SH as defined by NZBC Acceptable Solution C/AS1 and other attached or detached roof structures not subject to fire Group Number requirements, refer to BRANZ Appraisal 877.

1.11 FIXINGS, WIND

Use the fixings appropriate for the design loads of this site; refer to general section 1220 PROJECT for details of wind zone.

*Refer to span tables for configurations to suit wind zones (up to and including extra high)*

1.12 PERFORMANCE

Accept responsibility for the weather-tight performance of flashings at roof / wall junctions.

**2. PRODUCTS**

**Materials**

2.1 FLASHING

Refer to SELECTIONS.

*Flashings are typically folded from aluminium or galvanised coil coated steel.*

2.2 CLEARVUE CLEAR GLAZING PANEL

PLEXIGLAS® GS Acrylic clear flat panel. Available in 6mm and 8mm thickness, refer to SELECTIONS.

*89% light transmission, 89% heat transmission.*

*ClearVue roofing panel, minimum roof pitch 3°, recommended minimum roof pitch of 5°, maximum roof pitch 30°.*

- 2.3 CLEARVUE GREY TINT GLAZING PANEL  
 PLEXIGLAS® GS Acrylic grey tint flat panel. Available in 6mm and 8mm thickness, refer to SELECTIONS.  
*49% light transmission, 71% heat transmission.  
 ClearVue roofing panel, minimum roof pitch 3°, recommended minimum roof pitch of 5°, maximum roof pitch 30°.*
- 2.4 CLEARVUE STANDARD GLAZING BAR  
 Aluminium Standard Glazing Bar extrusions consisting of bottom, middle and top glazing bar with a profiled rubber gasket. Refer to SELECTIONS for finish.  
*47mm wide, 33mm high for 6mm ClearVue Panel  
 47mm wide, 35mm high for 8mm ClearVue Panel  
 Available in 3700 and 5100mm lengths  
 Support Standard Glazing Bar over rafters or across purlins.*
- 2.5 CLEARVUE SPAN BAR  
 Box section aluminium Span Bar extrusion with middle and top glazing bar aluminium extrusions and profiled rubber gasket. Refer to SELECTIONS for finish.  
*47mm wide, 123mm high for 6mm ClearVue Panel  
 47mm wide, 125mm high for 8mm ClearVue Panel  
 Available in 3700mm and 5100mm lengths.  
 The Span Bar box section profile acts as a rafter to span between supports.*

#### **Components - ClearVue**

- 2.6 CLEARVUE F PIECE  
 F shaped aluminium extrusion to suit ClearVue panel thickness and to match Span Bar / Glazing Bar finish, refer to SELECTIONS.  
*Used to finish the side of glazing bars where no panel is accommodated.  
 16 mm width with 44mm or 46mm return to suit panel thickness.  
 3700mm and 5100mm lengths available.*
- 2.7 PSP FOAM CLOSURE STRIP  
 EPDM composite foam closure strip.  
*Used between apron flashings and ClearVue panel.*
- 2.8 PSP RAFTER BRACKET  
 U shaped rafter bracket, 3mm thick T316 stainless steel.  
*Used to provide a connection between ClearVue Span Bar and supporting timber structure.  
 Note: contact between stainless steel and aluminium (anodised and powder coated) is to be avoided in sea spray zone and corrosion zone D.*
- 2.9 PSP TWO PIECE RAFTER BRACKET  
 Angled rafter bracket, 3mm thick T316 stainless steel.  
*Used to provide a connection between ClearVue Span Bar and supporting timber structure.  
 Note: contact between stainless steel and aluminium (anodised and powder coated) is to be avoided in sea spray zone and corrosion zone D.*
- 2.10 PSP END PLATE  
 Aluminium end plate, thickness to suit application. Finish to match Span Bar / Glazing Bar finish.  
*Used to close ends of glazing bars and span bars.*
- 2.11 FASTENERS - TIMBER RAFTERS  
 Pan Square Drive Self Tappers 8g x 50mm stainless steel screw for fixing the bottom and middle glazing bar extrusion into timber rafters.
- 2.12 FASTENERS - TIMBER PURLINS  
 Pan Square Drive Self Tappers 8g x 50mm stainless steel screw for fixing the bottom glazing bar extrusion into timber rafters. Socket Cap Screw 3/16 x ¾ UNC thread 304 stainless steel for fixing the bottom and middle glazing bar extrusions together.

2.13 FASTENERS - CLEARVUE SPAN BAR  
Socket Cap Screw 3/16 x 3/4 UNC thread 304 stainless steel for fixing the middle glazing bar extrusions to the box section aluminium Span Bar extrusion.

2.14 FASTENERS - COMPONENTS  
As required by PSP Limited for component screw fixing.

#### Accessories

2.15 SEPARATION TAPE  
Butyl rubber tape for separation between timber and aluminium.  
*ClearVue aluminium extrusions must be separated from treated timber by butyl rubber tape or DPC.*

### 3. EXECUTION

#### Conditions

3.1 INSPECTION  
Inspect the roof framing and supporting structure to ensure that it is complete ready for roofing. Do not start work until all requirements are complete to the required standard.  
*Expand if required to cover the painting of the support structure prior to installation of roofing system.*

3.2 STORAGE  
Store on a level firm base with packs well ventilated and completely protected from weather and damage. Store masked sheets away from direct sunlight.

3.3 HANDLING  
Avoid distortion and contact with damaging substances. Do not drag sheets across each other and other materials. Protect edges and surface finishes from damage.

#### Application

3.4 GENERALLY  
To **PSP Limited** requirements with all sheets square and oversailing the gutter true to line.

3.5 SETOUT  
Set out the planned layout before fixing commences, to ensure true lines and the correct relationship of sheets to pitch, module, grid, roof framing and roof features.  
*Modify or expand the clause to suit project or manufacturer/supplier requirements.*

3.6 CUTTING CLEARVUE GLAZING PANEL  
Use cutting tools and methods as required by PSP Limited.  
*Circular saw with a fine tooth blade is the recommended cutting method.*

3.7 INSTALL CLEARVUE GLAZING PANEL & STANDARD GLAZING BAR  
Install and fix ClearVue glazing panel and ClearVue Glazing Bars, components and accessories in accordance with **PSP Limited** installation requirements. Make due allowance for dynamic local wind pressures on the building and the thermal movement in the sheets and components.

3.8 INSTALL CLEARVUE GLAZING PANEL & SPAN BAR  
Install and fix ClearVue glazing panel and ClearVue Span Bars, components and accessories in accordance with **PSP Limited** installation requirements. Make due allowance for dynamic local wind pressures on the building and the thermal movement in the sheets and components.

3.9 FLASH  
Flash sheet roofing to detail and PSP Limited requirements.  
*Modify to suit if flashings are included elsewhere.*

#### Completion

- 3.10 PROTECTIVE FILM  
Completely remove protective film.  
*ClearVue panels are supplied with a protective film both sides.*
- 3.11 REPLACE  
Replace damaged or marked elements.
- 3.12 LEAVE  
Leave this work complete with all necessary flashings.
- 3.13 REMOVE  
Remove debris, unused materials and elements from the site.
- 3.14 PROTECTION  
Protect the completed work from damage for the remainder of the construction period.

#### 4. SELECTIONS

For further details on selections go to [www.clearvue.co.nz](http://www.clearvue.co.nz)

Substitutions are not permitted to the following, unless stated otherwise.

*If substitutions are permitted modify the statement above, ensure the NO SUBSTITUTIONS clause from GENERAL is treated the same.*

*Select the options to suit the project and delete options not specified.*

#### Materials

##### 4.1 PSP - CLEARVUE CLEAR GLAZING PANEL

Location: ~  
Type/Brand: ClearVue Clear Glazing Panel  
Profile: Flat sheet  
Sheet thickness: ~  
Sheet width: ~  
Sheet colour: Clear  
*Sheet Thickness: 6mm thick (586mm width, 3700 and 5100mm length)  
8mm thick (736mm width, 3700 and 5100mm length)*

*Sheet width: 586mm width suits 600mm Standard Glazing Bar / Span Bar spacing  
736mm width suits 750mm Standard Glazing Bar / Span Bar spacing*

##### 4.2 PSP - CLEARVUE GREY TINT GLAZING PANEL

Location: ~  
Type/Brand: ClearVue Grey Tint Glazing Panel  
Profile: Flat sheet  
Sheet thickness: ~  
Sheet width: ~  
Sheet colour: Grey Tint  
*Sheet Thickness: 6mm thick (586mm width, 3700 and 5100mm length)  
8mm thick (736mm width, 3700 and 5100mm length)*

*Sheet width: 586mm width suits 600mm Standard Glazing Bar / Span Bar spacing  
736mm width suits 750mm Standard Glazing Bar / Span Bar spacing*

##### 4.3 PSP - CLEARVUE ROOFING SYSTEM STANDARD GLAZING BAR

Location: ~  
Type/Brand: ClearVue Roofing System  
Profile: Glazing bar and components  
End Plate: ~  
Finish: ~  
Colour: ~  
*End Plate: 5mm thick - standard  
3mm thick - to accommodate spouting  
Finish: Anodised, powder coated  
Anodised colour: Standard 25mu  
Powder coat colour: Select from Dulux Powder Coatings NZ range*

*Support Standard Glazing Bar over rafters or across purlins.*

- 4.4 PSP - CLEARVUE ROOFING SYSTEM SPAN BAR  
Location: ~  
Type/Brand: ClearVue Roofing System  
Profile: Span Bar and components  
End Plate: 5 mm thick aluminium  
Finish: ~  
Colour: ~  
*Finish: Anodised, powder coated*  
*Anodised colour: Standard 25mu*  
*Powder coat colour: Select from Dulux Powder Coatings NZ range*

*The Span Bar box section profile acts as a rafter to span between supports.*

- 4.5 FLASHING  
Location: ~  
Type ~  
Finish: ~  
Colour: ~  
*Flashings are typically folded from aluminium or galvanised coil coated steel.*  
*Add details of flashings here or refer to other sections as appropriate to the project.*