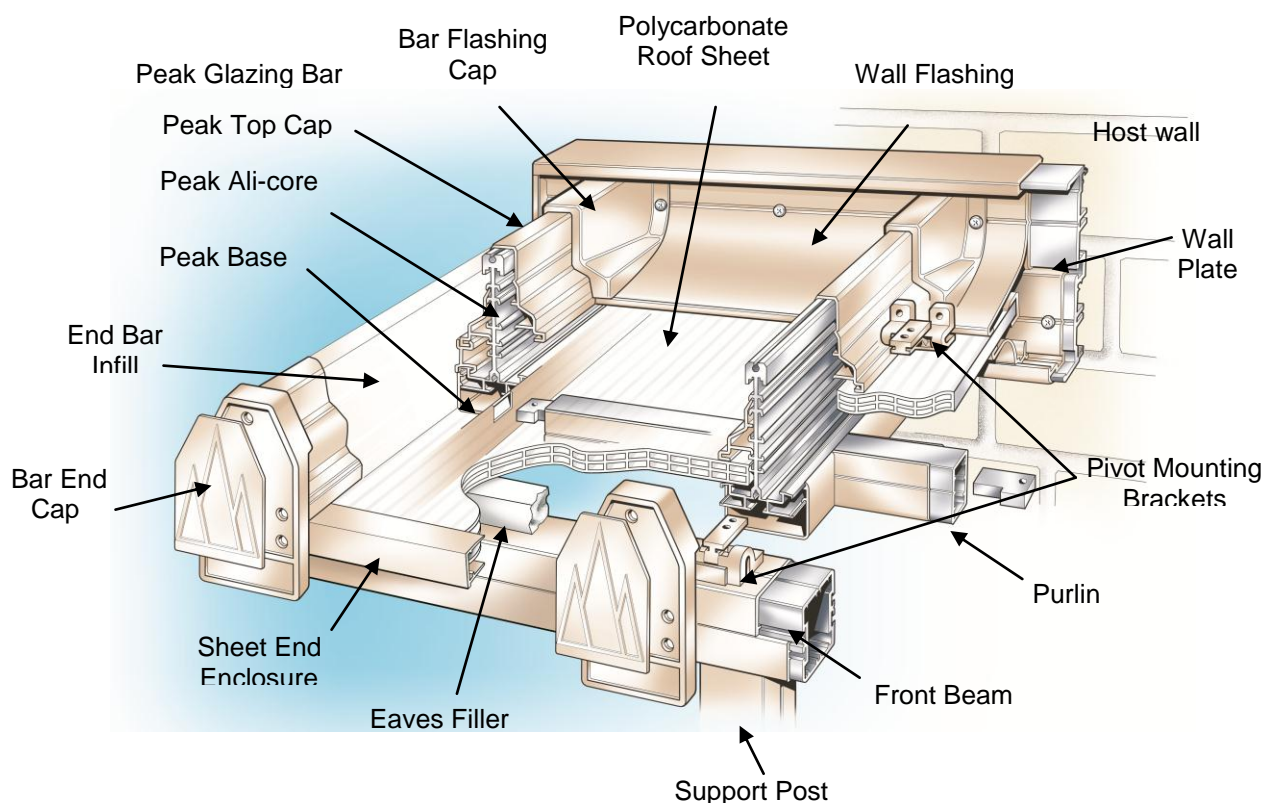


## PEAK 100 ROOFING SYSTEM

Aluminium-cored uPVC Glazing Bar System for Self-Supporting Roofs  
For use with 16mm and 25mm Polycarbonate Roof Sheets  
Available in White or Brown Glazing Bars



The Peak 100 Self-Supporting Glazing Bar System is an excellent value Roofing System for Polycarbonate Sheets. The design of this Roofing System and the high-grade Aluminium Core of the Glazing Bars, Wall Plate and Front Beam provides strength allowing self-supporting spans up to 4 metres without the need of rafters underneath Glazing Bars.

## SELF-SUPPORTING ROOF GUIDELINES

When designing a Self-Supporting Roof, the required length of the roof and the choice of Roof Sheet must be considered.

As Self-Supporting Glazing Bars increase in length, the distance between them must be closer to support the increased weight. Likewise, the span capable of Roof Sheets depends on the thickness of the sheet.

Tables **A** and **B** show the recommended spacing of Glazing Bars and Roof Sheets, and where one of the tables gives a lower figure than the other this must always be the figure to determine the dimensions of a Self-Supporting roof.

### A. MAXIMUM SHEET SPAN

<b>SHEET THICKNESS</b>	<b>MAX. SHEET SPAN</b>
16mm	900 mm (2' 11")
25mm	1100 mm (3' 7")

### B. MAXIMUM GLAZING BAR SPACING

<b>LENGTH OF GLAZING BAR</b>	<b>MAX. SPACE BETWEEN BARS</b>
2 metre	1.5 m (4' 11")
2.5 metre	1.4 m (4' 7")
3 metre	1.3 m (4' 3")
3.5 metre	1.15 m (3' 9")
4 metre	1.0 m (3' 3")

For roofs spanning more than 4 metres, extra support (eg. Purlins and support posts) must be installed to provide strength between Glazing Bars.

## INSTALLATION GUIDE

### **STEP 1** – Measure & Cut Glazing Bars and Roof Sheets

Measure the Glazing Bars to the length of the roof required (consult Tables A and B), allowing a small overhang of at least 50mm. Cut with a fine-bladed saw.

### **STEP 3** – Cut the Bases

Cut the Glazing Bar Bases to the correct length using a fine-bladed hacksaw.

### **STEP 4** – Measure Top Caps

Measure the length of the Glazing Bar Top Caps to the same length as the Glazing Bar Bases.

## **STEP 5** – Cut the Top Caps

Cut the Glazing Bar Top Caps to the correct length using a fine-bladed hacksaw.

## **STEP 6** – Mark Fixing screws

Mark the Glazing Bar Bottom Caps where to drill fixing screws through to Supporting Rafterss, starting at the Front Beam.

## **STEP 7** – Measure Fixing screws

Measure along each Glazing Bar for fixing screws, every 300 mm down the length of Support Rafters.

## **STEP 8** – Cut Eaves Fillers

Measure and cut Eaves Filler strips to the same length as your Glazing Bars/ Supporting Rafters.

## **STEP 9** – Prepare Eaves Fillers

Peel the backing off the Eaves Filler strips

## **STEP 10** – Attach Eaves Fillers

Place the self adhesive Eaves Filler strips to the outer edge of the two end Supporting Rafters and along the Front Beam.

Alternatively, uPVC Eaves Retainers can be used.

## **STEP 11** – Fix down Glazing Bars

Use Stainless Steel screws to fix the Glazing Bar Bases to the Supporting Rafters.

## **STEP 12** – Arrange components

Cut an End Bar Infill (Edge Bead) to the correct length and place on the outer edge of the Glazing Bar, with Polycarbonate Sheet on the other side.

## **STEP 13** – Secure with Top Cap

Use a soft-headed White Rubber Mallet to gently tap the Glazing Bar Top Cap down to secure the Base, End Bar Infill and Polycarbonate Sheet together.

## **STEP 14** – Repeat for all Glazing Bars

Repeat for all other Glazing Bars, which will include centre bars throughout the middle of the roof (see picture) and another end bar (repeat Step 12).

## **STEP 15** – Measure Sheet End Enclosures

Mark and trim the length of the Sheet End Enclosures by measuring between the Glazing Bars

## **STEP 16** – Attach Sheet End Enclosures

Attach the Sheet End Enclosures to the front of the Polycarbonate Sheets, between Glazing Bars.

## **STEP 17** – Bar End Caps

End caps are provided to finish the end of each Glazing Bar. Each End Cap is comprised by a Back Plate, snap-on Vanity Cover and Stainless Steel screws.

## **STEP 18** – Attach Back Plate

Screw the Back Plate on to the ends of Glazing Bars.

## **STEP 19** – Attach Vanity Cover

Clip the Vanity Cover on to the Back Plate, to finish the ends of Glazing Bars.

## **STEP 20** – Wall Flashing

For quick and easy flashing to the host wall, use Flash Band to seal the roof.

For professional and permanent flashing use our uPVC Wall Flashing. Use silicone to seal to the wall.

## **STEP 21** – Sealing Buttons

Drill holes for Sealing Buttons along the Front Beam, one in the centre of each Polycarbonate Sheet between Glazing Bars.

## **STEP 22** – Fix down Sealing Buttons

Screw the Sealing Button through the Polycarbonate Sheet into the Front Beam.



Finished Sealing Button to hold down Polycarbonate Sheets along the front of the roof.