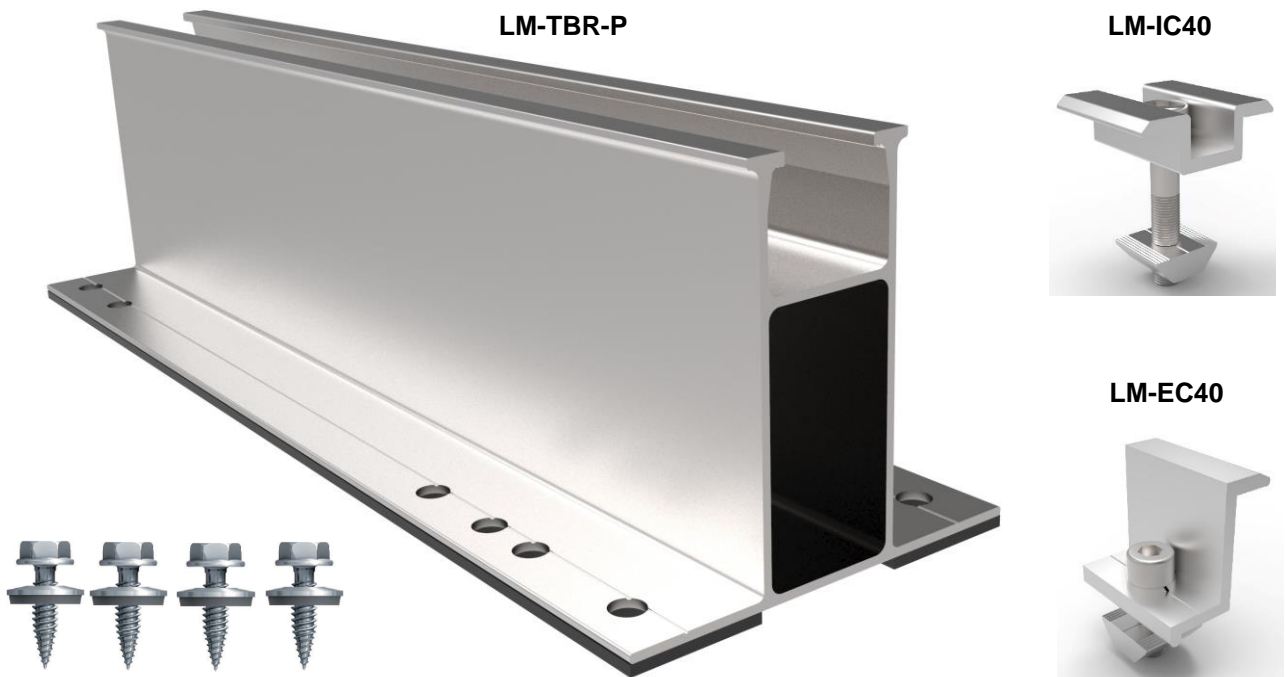


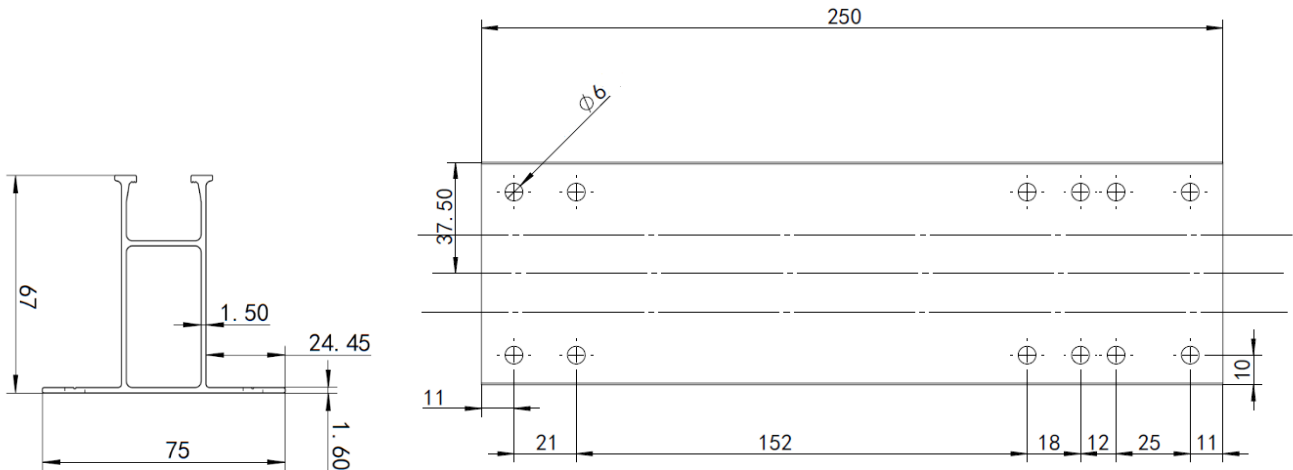
TRAPEZOIDAL BLOCK RIB / CORRUGATED SHEET – PORTRAIT MOUNTING

1. SYSTEM OVERVIEW

The short rail method of Fixing PV mounting structures to pierced roof sheets is a convenient and cost effective method of mounting PV panels. The TBR-P rail section is mounted across the roof sheet ribs to facilitate mounting of panels, optimally in portrait layout. Landscape mounting is possible when clamping on the short side of PV modules. Fixation to the sheet is established using 4 bi-metal screws with a number of advanced features. The TBR-P is supplied with pre-punched holes with spacing matching most commonly used trapezoidal and corrugated roofs in Southern Africa. Additional holes can be drilled on site along the guideline for special applications.

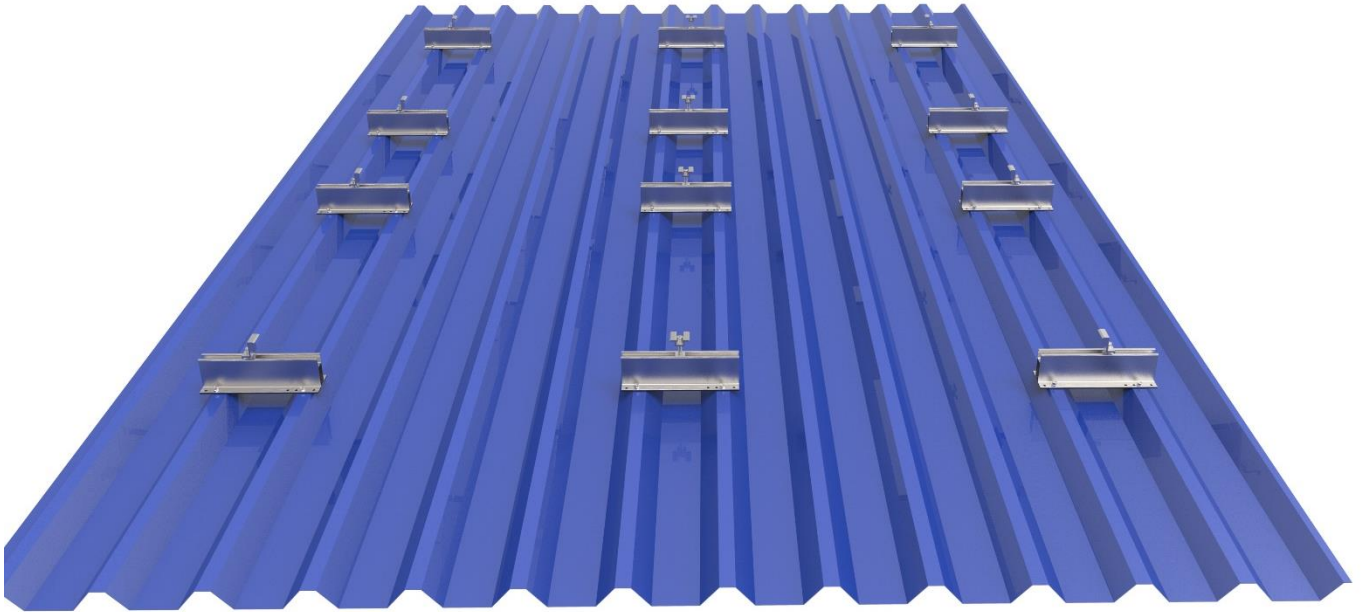


The TBR-P allows very good clearance between the panel and roof sheet: 67mm from the crest and ~100mm from the base of the sheet. This distance complies with module manufacturers' height requirements for ventilation to ensure optimal yield. It also allows other components to be mounted below the PV panels such as Distributed MPPTs or micro inverters.

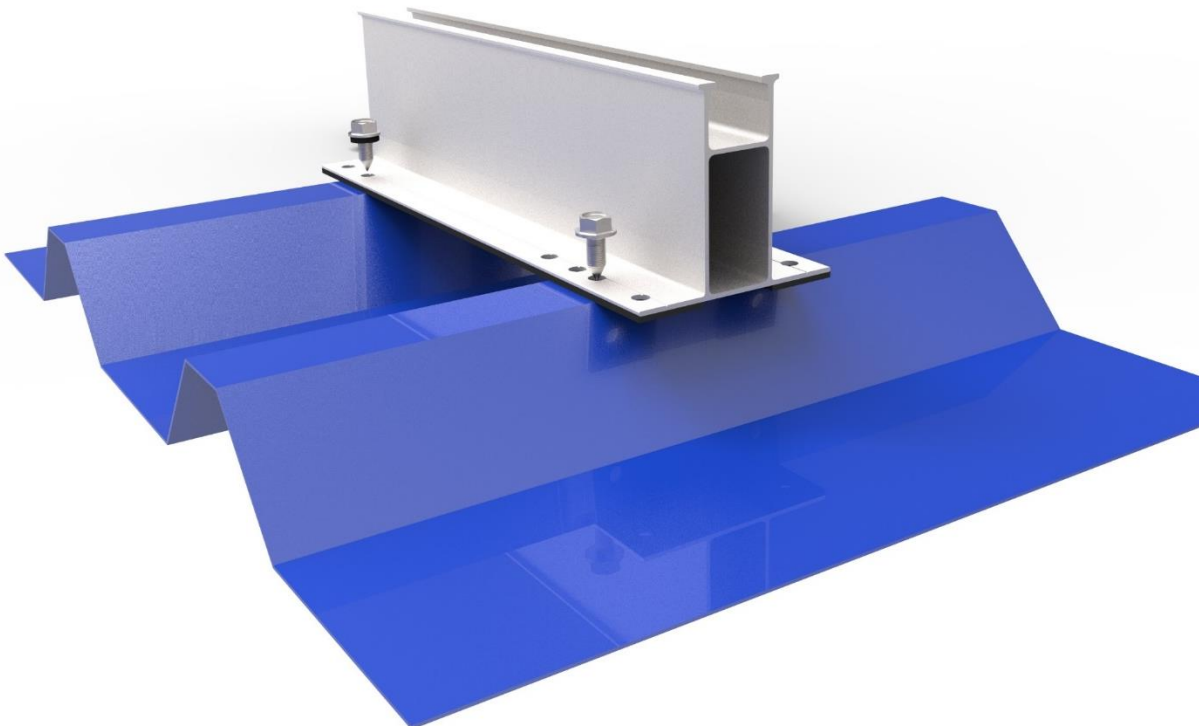


2. INSTALLATION

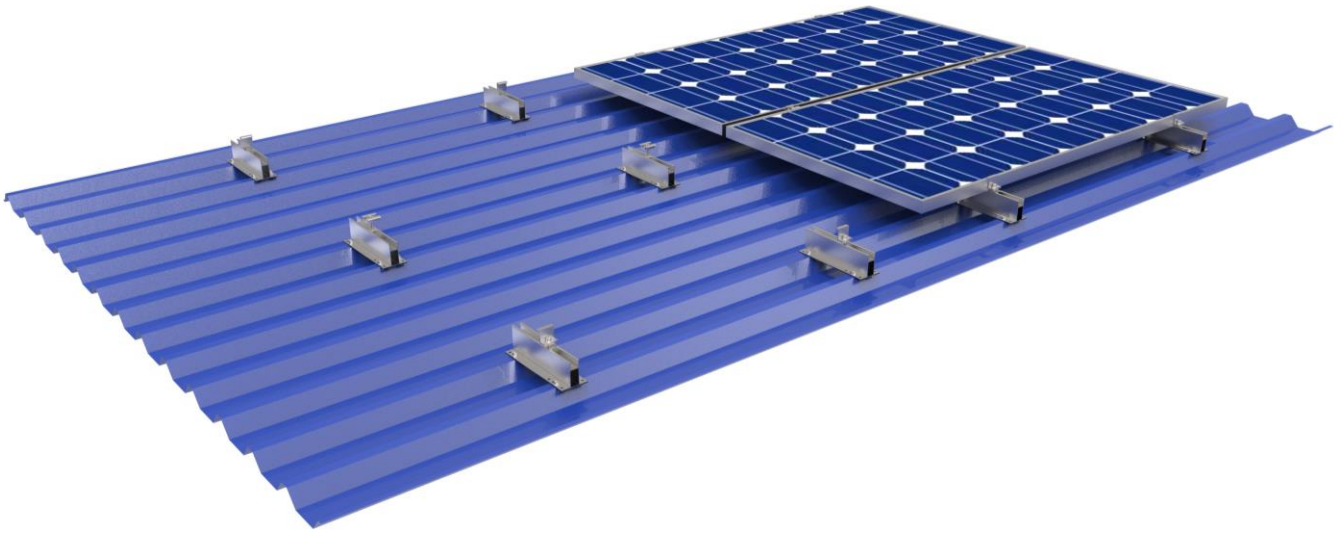
- 1) Verify the sheet metal type and sheet thickness to determine the screw holding strength and ensure this is sufficient to meet project wind loading specifications, consult a design engineer if necessary.
- 2) Choose vertical spacing of TBR-P's according to the panel manufacturer's preferred clamping ranges. For horizontal spacing use panel width and alignment with the crests of the roof sheet.



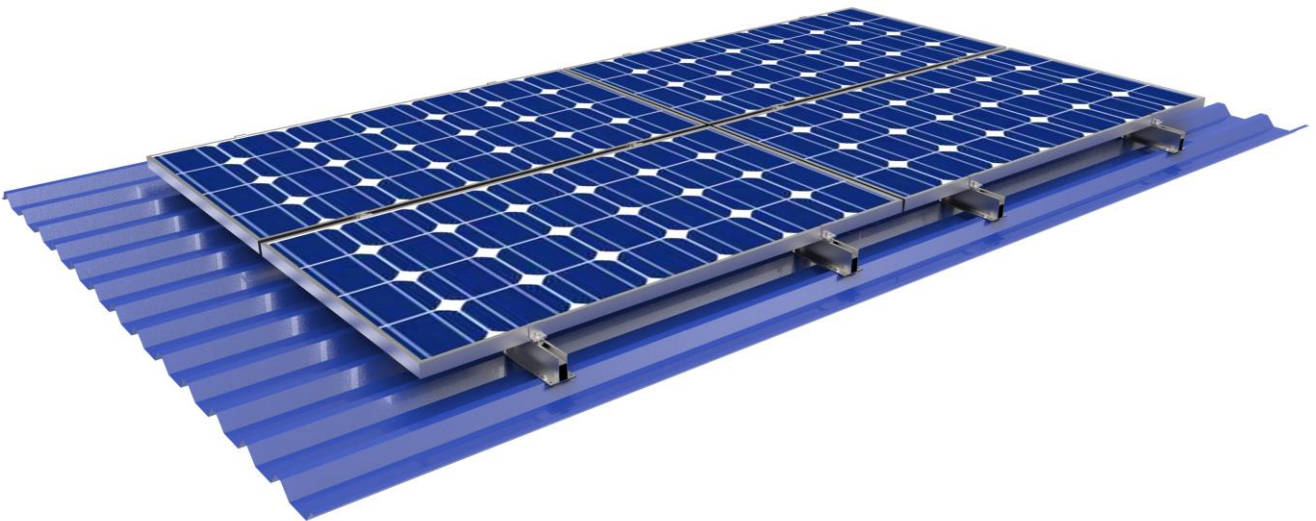
- 3) The TBR-P is 250mm wide which allows sufficient tolerance to match the pre-punched holes to the centre of the crests of multiple roof sheets.



4) Position panels onto the TBR-P and fix with end and mid clamps.



5) Complete installation.



END