



TILE ROOF INSTALLATION GUIDELINE



The Following document provides a brief overview on the installation of the six-panel kit of the domestic bracket solar solution for tiled roofs.

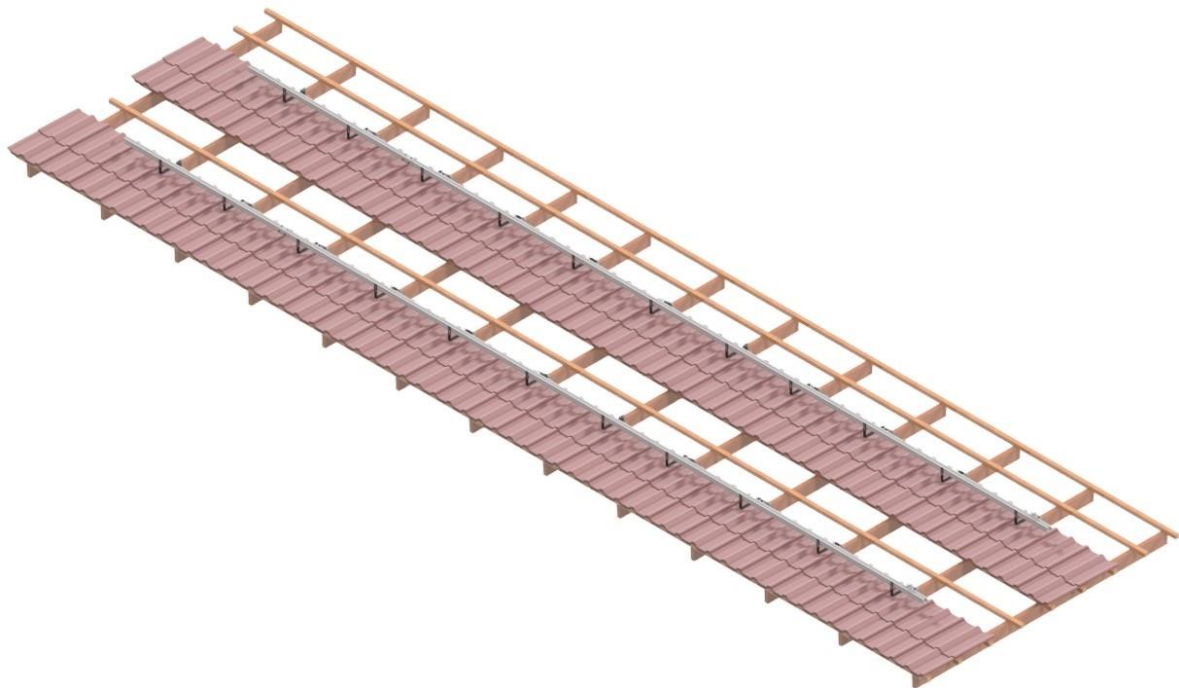


Figure 1: Overview of Mounting Structure Installation

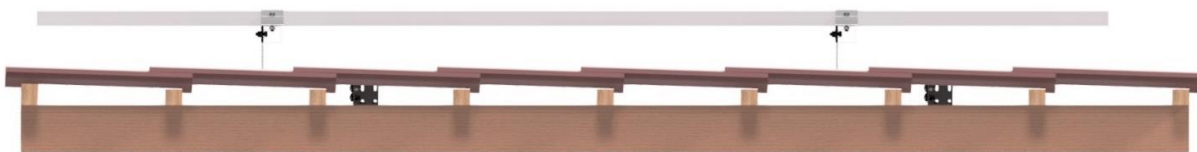


Figure 2: Side view of Mounting Structure Installation

Installation Steps

Step 1:

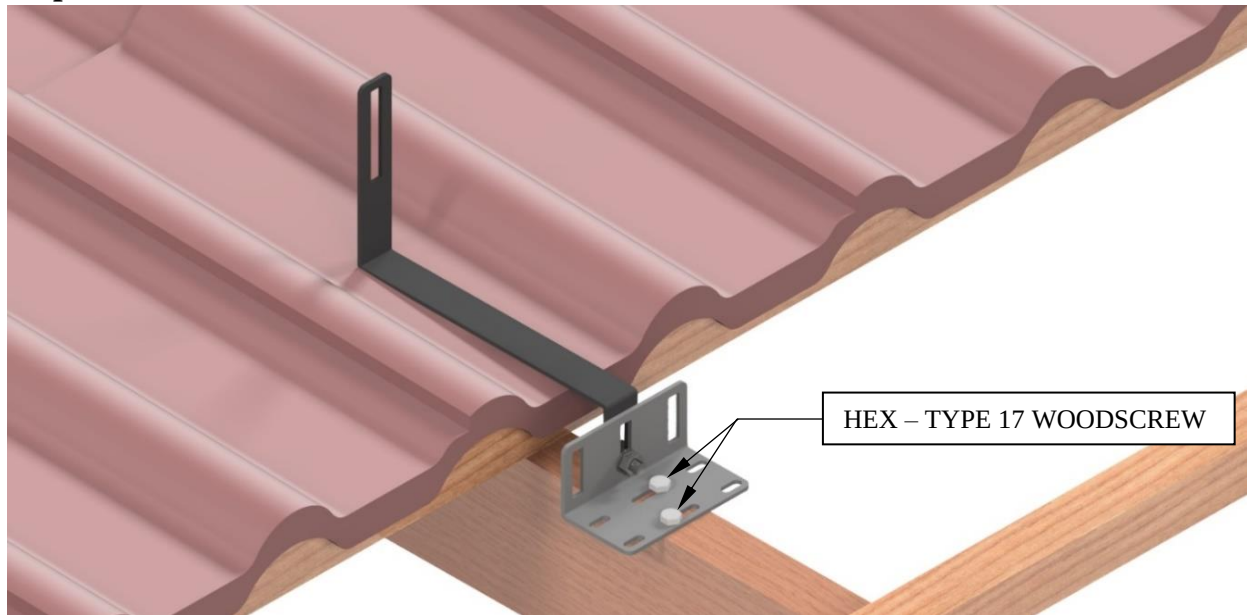


Figure 3: Domestic Bracket Positioning

Place the domestic bracket at an optimal position between the roof battens and fasten it into the rafter using two type 17 wood screws. The depth of the wood screws must be 75 mm.

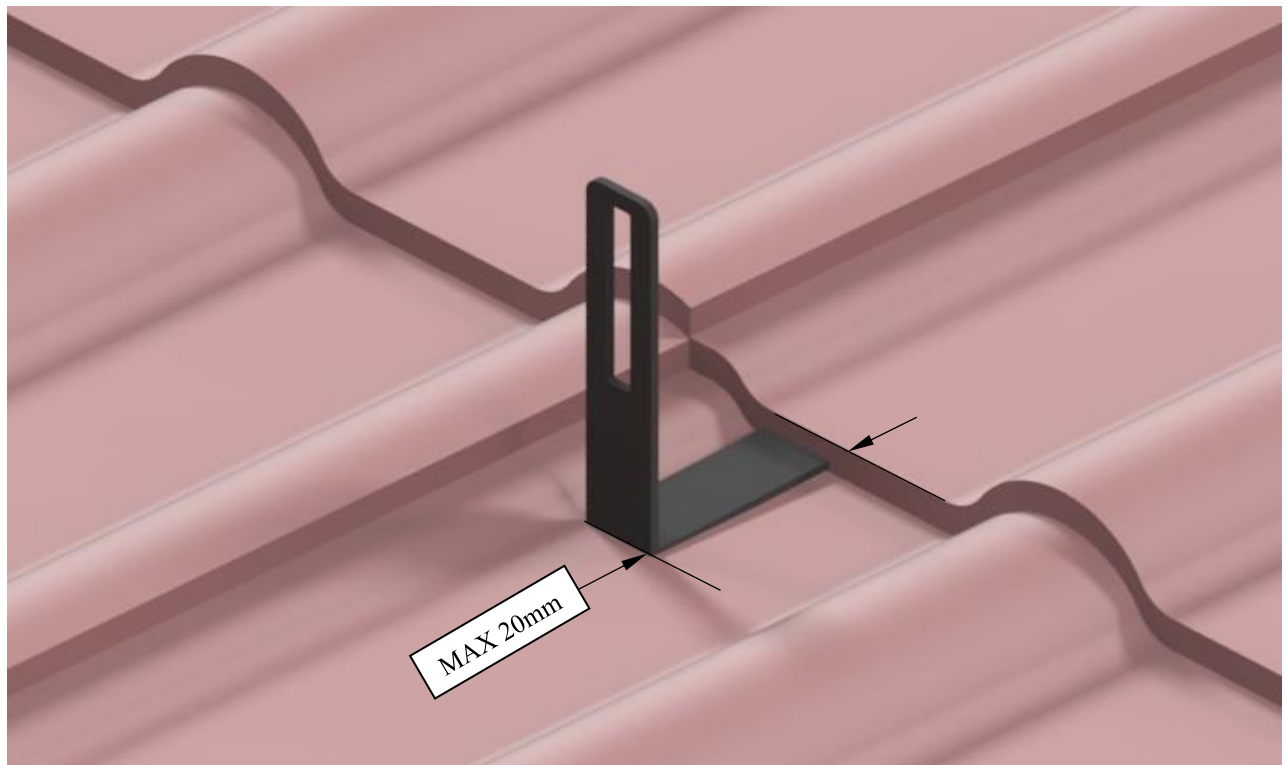


Figure 4: Bracket Overlay with Tile.

Ensure that domestic bracket has maximum of 20 mm overlay with tile.

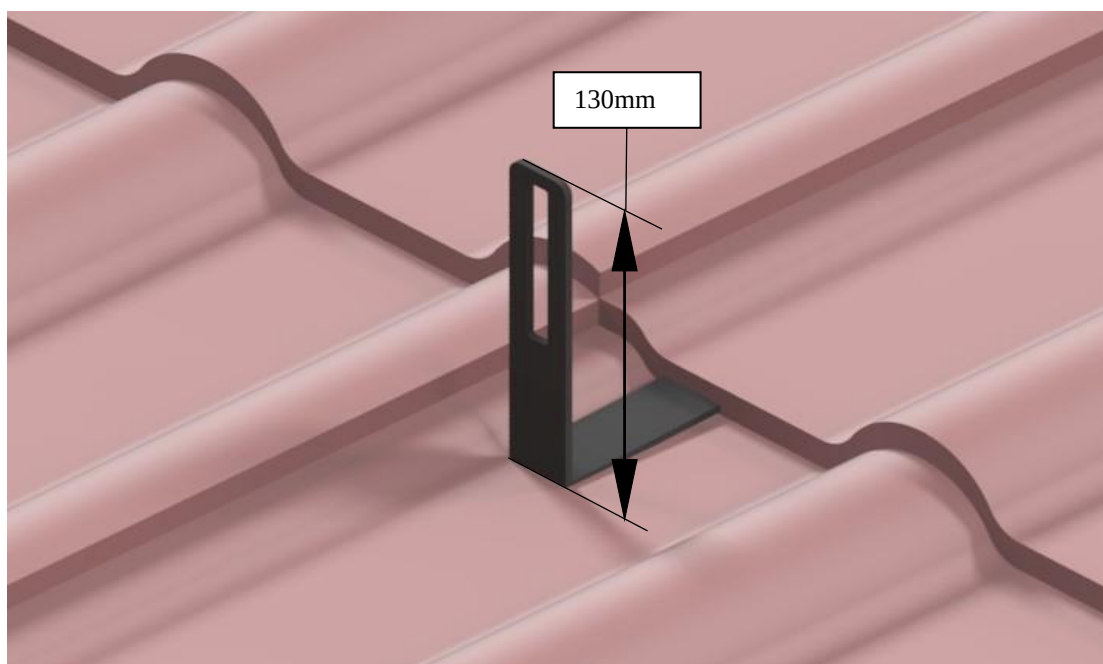


Figure 5: Bracket Height Above Tile

130 mm Spacing between the top side of the bracket and base tile should be observed after installation.

Step 2:

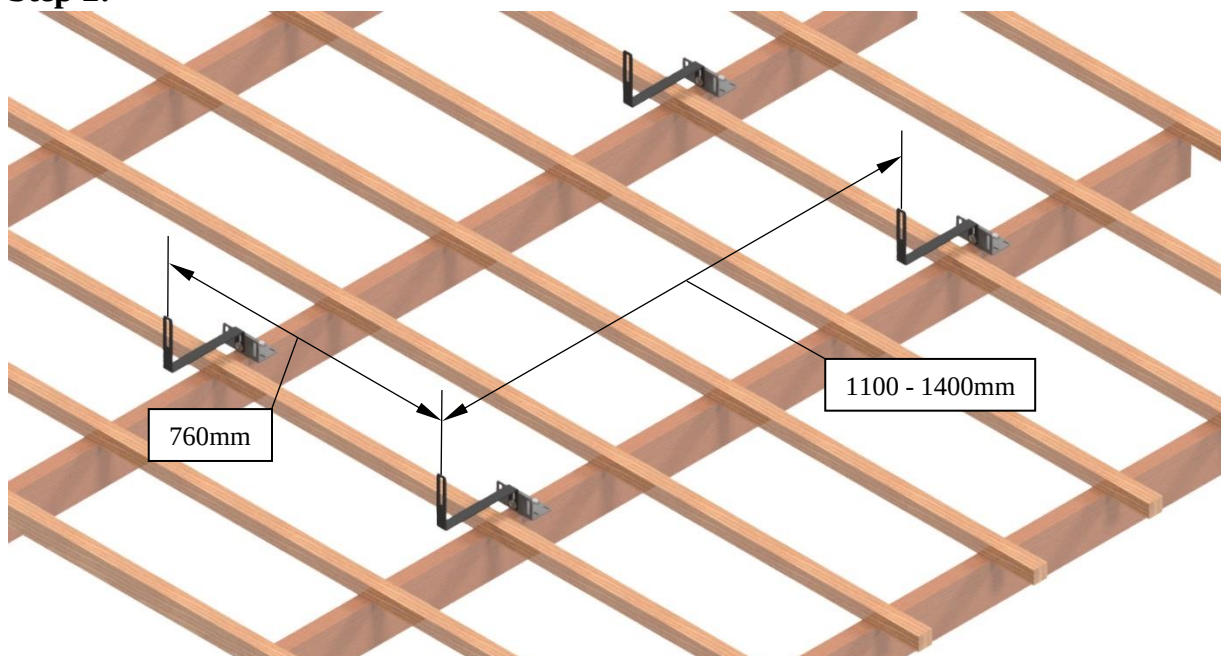


Figure 6: Domestic Bracket Positioning

Position the domestic brackets on each consecutive rafter 760 mm apart and ensure that the bracket is in line with the solar panel clamping zones. Reference technical data for solar panel to find correct distances.

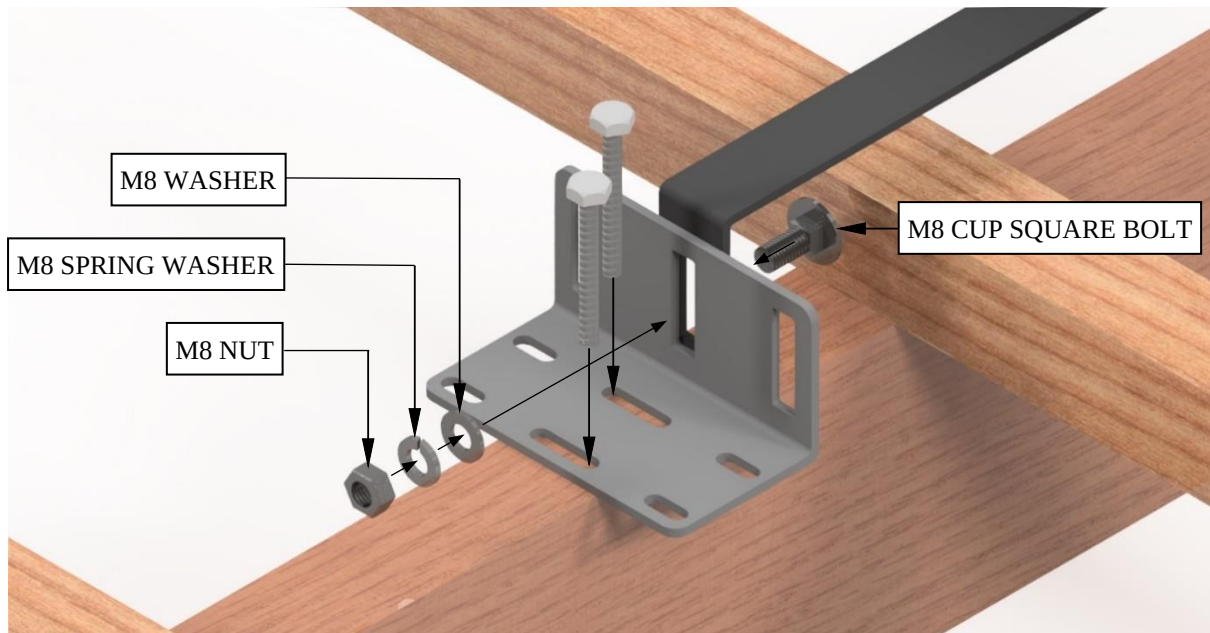


Figure 7: Domestic Bracket Assembly

Step 3:



Figure 8: Mounting Structure Rail Positioning

Fasten the rail to the domestic bracket and ensure that the rails are level before tightening.

NOTE: ALL BOLTS AND NUTS IS TO BE TORQUED TO 15 Nm.

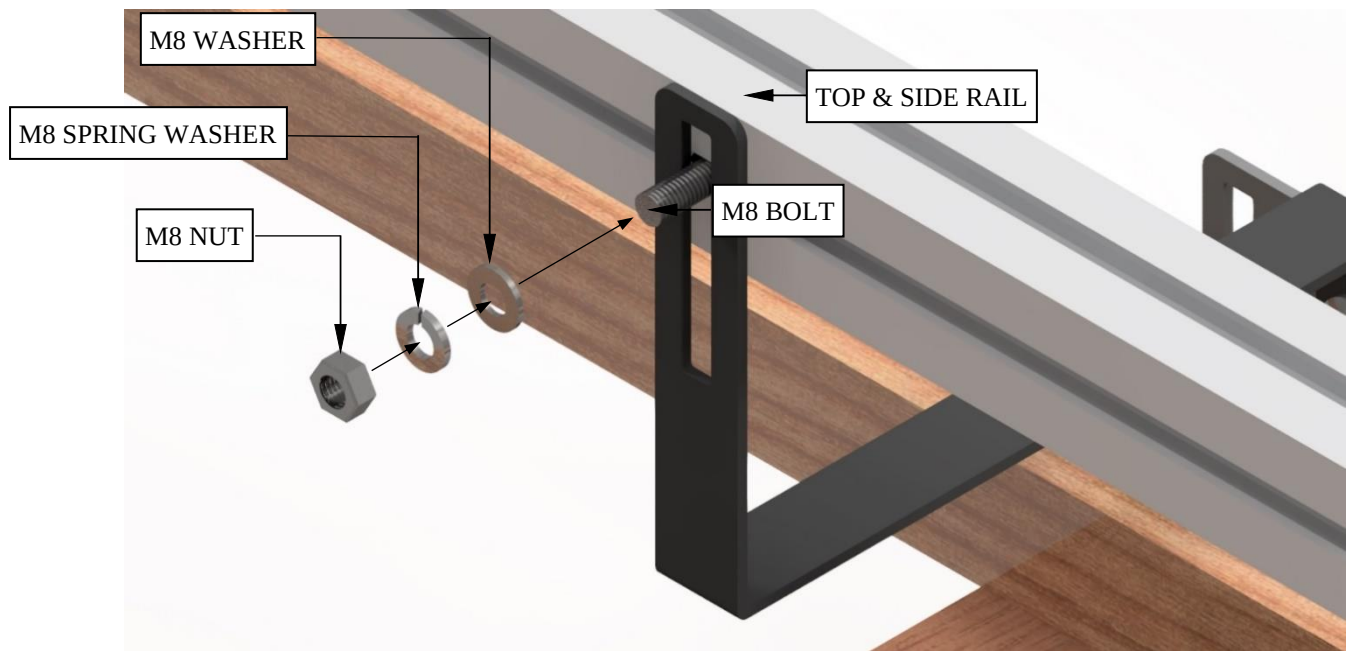


Figure 9: Bracket Rail Interface

Tighten the Top & Side rail to the domestic bracket at 15 Nm torque.

STEP 4:

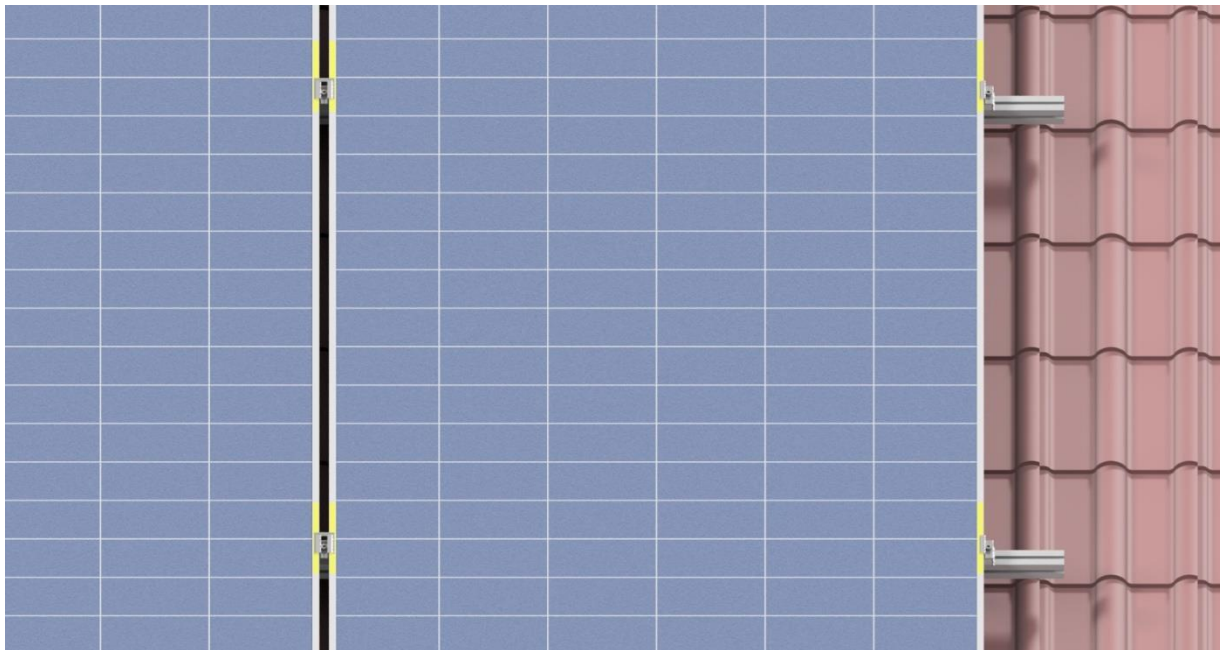


Figure 10: Installation Positioning

Before rails are installed ensure that the clamps are within the clamping zones of the panel (consult the panel installation guide for more information). Position the End Clamps, Mid Clamps, and Solar Panels (yellow indicates clamping zones). Torque all bolts to 15 Nm to ensure a proper connection.

End Clamp Installation Method.

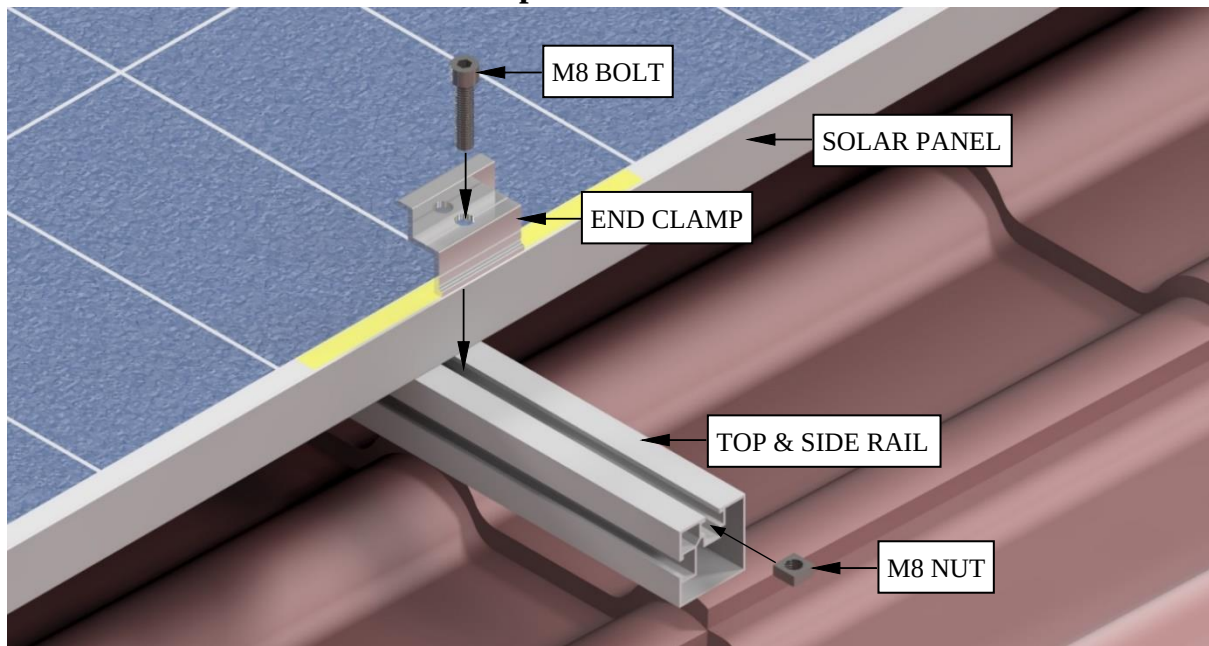


Figure 11: End Clamp Installation

Mid Clamp Installation Method

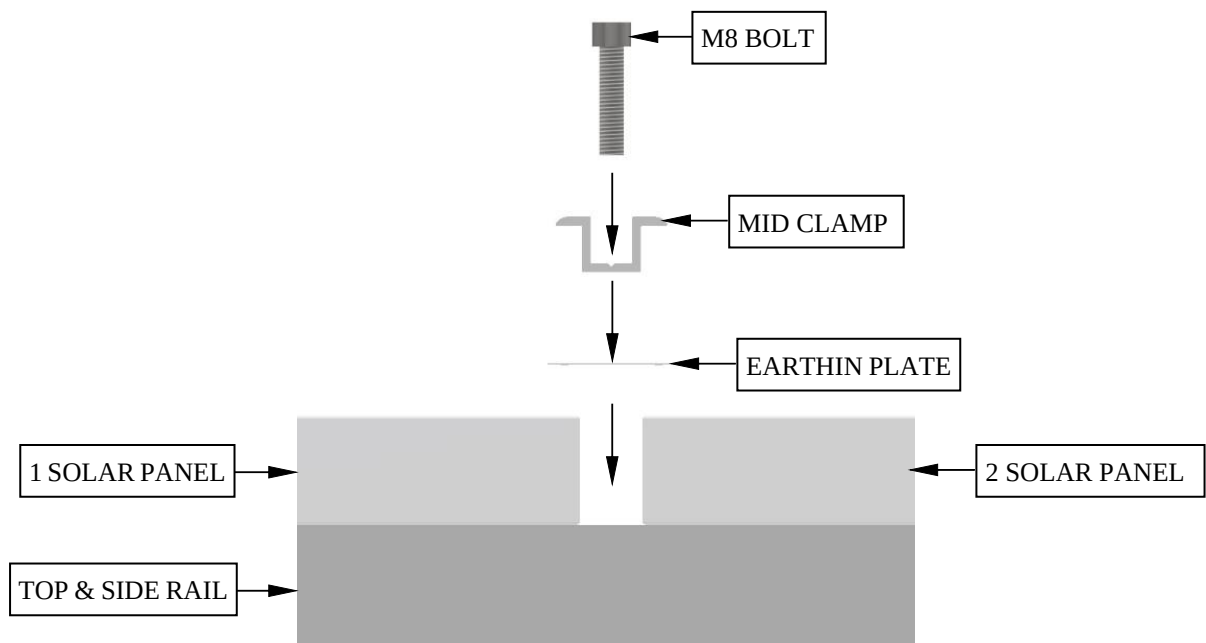


Figure 12: Mid Clamp Installation

GENERAL NOTES

Alternative Fixing Method to Rafter

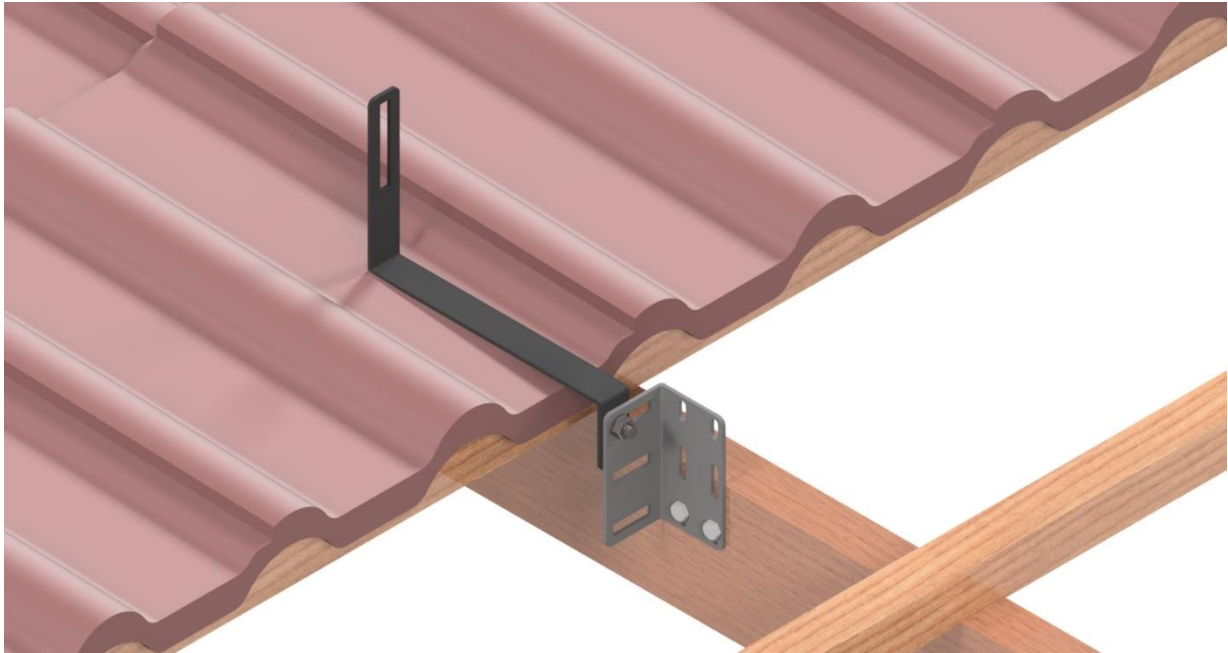


Figure 13: Domestic Bracket Alternative Fixing

- General Height between the solar panel and roof should be 100 mm.

Method of Joining Top & Side Rail Together

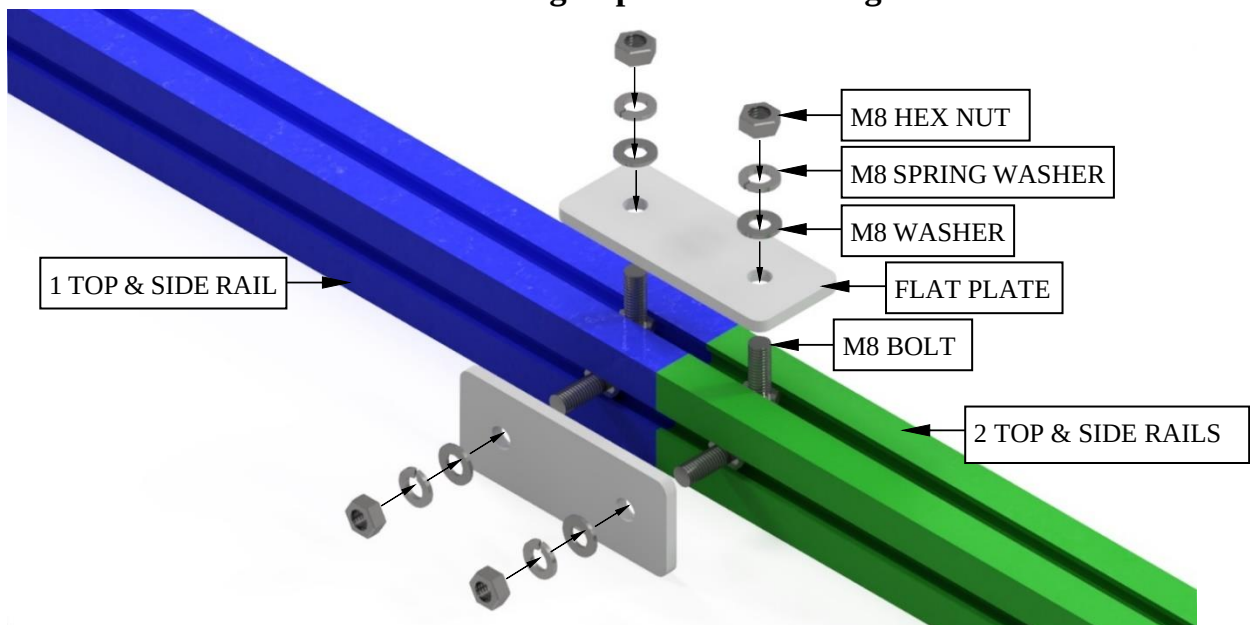


Figure 14: Flat Plate to Top & Side Rail Fixing

- To connect two Top & Side rails, tighten a flat plate at 15 Nm torque in the configuration as seen in Figure 14. Ensure that the two rails are correctly aligned before tightening the nuts.