

SOLAR BRACKET GUIDE

INSTALLATION AND PRODUCT INFORMATION



LOW PROFILE SOLAR BRACKET

Suitable for Gerard profiles:
Senator



HIGH PROFILE SOLAR BRACKET

Suitable for Gerard profiles:
Heritage, Milano, Shake, Classic, Tudor,
Antica

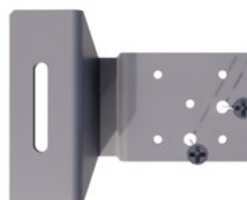
Fastening Guide

Fasten through battens into rafters using the holes shown below.

NON-CYCLONIC WIND REGIONS



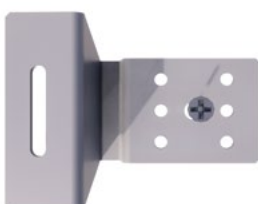
Low Profile Solar Bracket



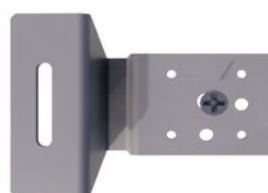
High Profile Solar Bracket

Each solar bracket requires two 80mm x 10G screws.

CYCLONIC WIND REGIONS



Low Profile Solar Bracket



High Profile Solar Bracket

Each solar bracket requires one 100mm x 14G Class 3 galvanised bugle screw.

Installation

- Lay the first course of tiles
- Fasten solar brackets to batten/rafter joints in accordance with the solar plan. Ensure brackets are fastened through the batten into the rafter.
- Lay and fasten next course of tiles
- Repeat this method up the plane of the roof
- Using the solar brackets, the solar installer can now mount the solar panel rails and install the panels.

Note: There are profiles where the dimensions of the pans misalign the bracket with the rafter joint. In non-cyclonic regions, these may be installed by fastening through the batten only, but brackets must not be installed more than 100mm from the rafter joint.

In cyclonic regions, all brackets should be fastened into the rafter joint. Profiles with pans should be substituted with non-panned profiles.

Product Specification

Material: Steel 3mm BMT

Coating: ZAM K35 grade

Design capacity: 2.15 kN ULS

Bracket Spacing

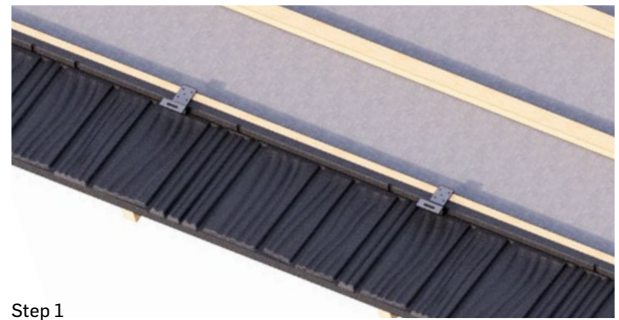
Fasten brackets to rafter joints in accordance with the table below.

		RAFTER X BATTEN SPACING			
		900 x 370mm	900 x 740mm	900 x 1100mm	900 x 1480mm
Wind Class	Wind Speed (m/s)	Fastener load strength required (kN)			
N1	34	n/s	0.83	1.24	1.66
N2	40	n/s	1.15	1.71	n/s
N3	50	0.90	1.80	n/s	n/s
N4	61	1.34*	n/s	n/s	n/s
N5	74	1.97*	n/s	n/s	n/s
C1	50	1.12*	n/s	n/s	n/s
C2	61	1.67*	n/s	n/s	n/s

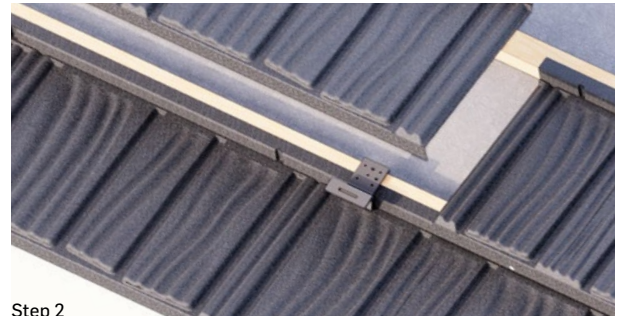
* Installation of solar brackets is required at each rafter/batten junction in N4, N5, C1, and C2 wind classes.

n/s = not suitable

Installation of the solar brackets at the spacing highlighted above meet the criteria to withstand the wind loads on a solar panel array as outlined in AS/NZS 1170.2, D6 Solar Panels. The fixing points load requirement is below the solar brackets' design load of 2.15kN.



Step 1



Step 2



Step 3