RL Helios Bracket

For Solar System Installation on RL Top Deck T

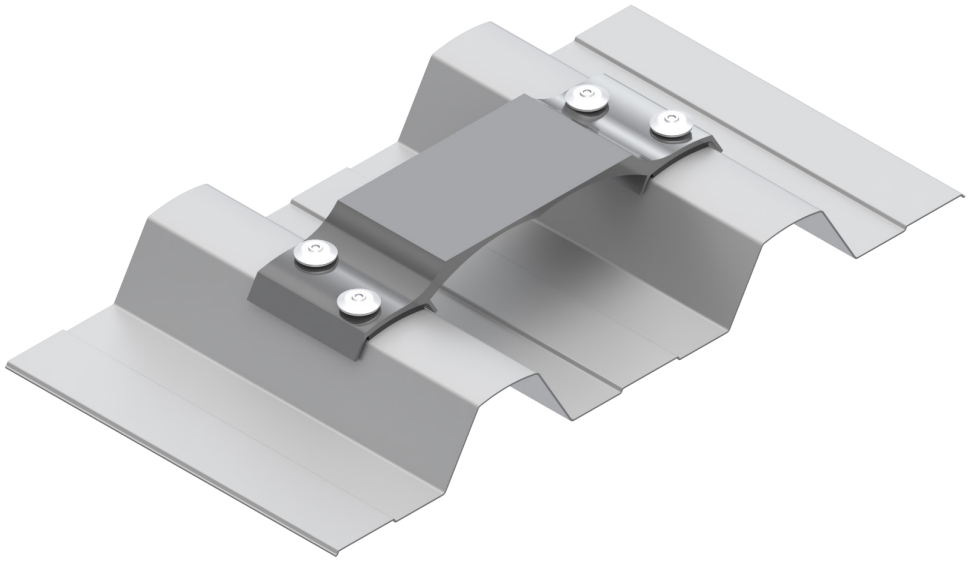


Figure 1: RL Helios Bracket Assembly

01 PRODUCT DESCRIPTION

The RL Helios Bracket is an anodised, extruded 6063 T5 aluminium component featuring an EPDM weather seal at the contact point with the RL Top Deck T Roofing Profile. Designed specifically to support photovoltaic (PV) panels on metal roofs, it creates a secure interface between the PV frame and the roof, with the PV frame mechanically attached to the bracket. This allows for PV componentry to be installed into the Helios Bracket without having to additionally penetrate the roofing profile.

RL Helios Bracket

02 INSTALLATION

- The RL Helios Bracket is to be installed into the Top Deck using four RL Helios Rivets, which are supplied with the RL Helios Bracket.
- Begin by following the set-out location as indicated on the supplied PV plans.
- Pre-drill the Top Deck profile at the designated locations, ensuring to drill 4 holes per RL Helios Bracket
- Once the holes are prepared, install each rivet through the RL Helios Bracket.
- It is recommended that the support rails ensure solar panels are 150mm above roof height to allow for cleaning/ maintenance of roof cladding.

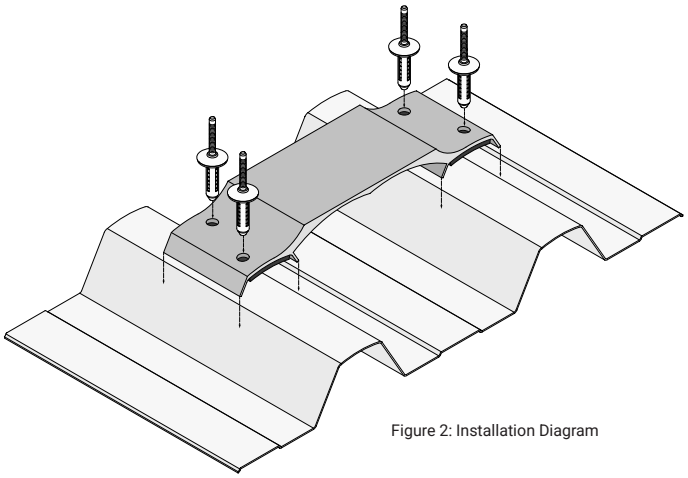


Figure 2: Installation Diagram

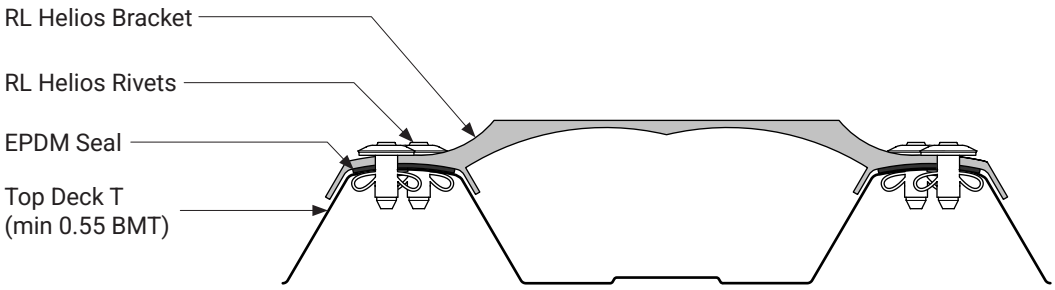


Figure 3: RL Helios Bracket Section

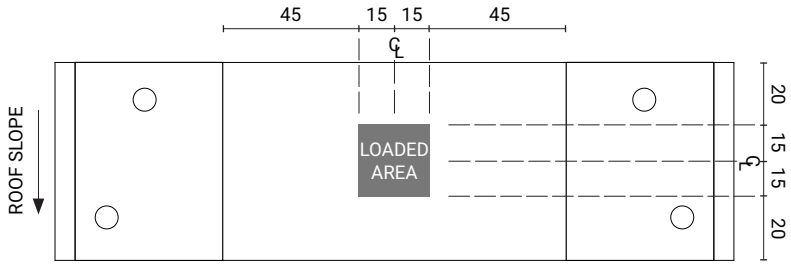


Figure 4: RL Helios Bracket Plan

Mechanical atttachment of solar panel componentry to be contained within loaded area.*

**If attachment outside loaded area is required, contact Rooflogic for project specific loading data.*

RL Helios Bracket

03 TECHNICAL

Allowable loads for the RL Helios Bracket need to be checked against the demand loads by a suitably qualified engineer to ensure New Zealand Building Code (NZBC) compliance requirements are met.

Please note: These loads are based on 0.55BMT(G550) steel roofing.

RL HELIOS BRACKET		
ALLOWABLE LOADS	SLS	ULS
Uplift	1.4 kN	2.7 kN
Transverse 1	1.0 kN	2.5 kN
Transverse 2	0.9 kN	2.2 kN
Downward	0.9 kN	1.0 kN

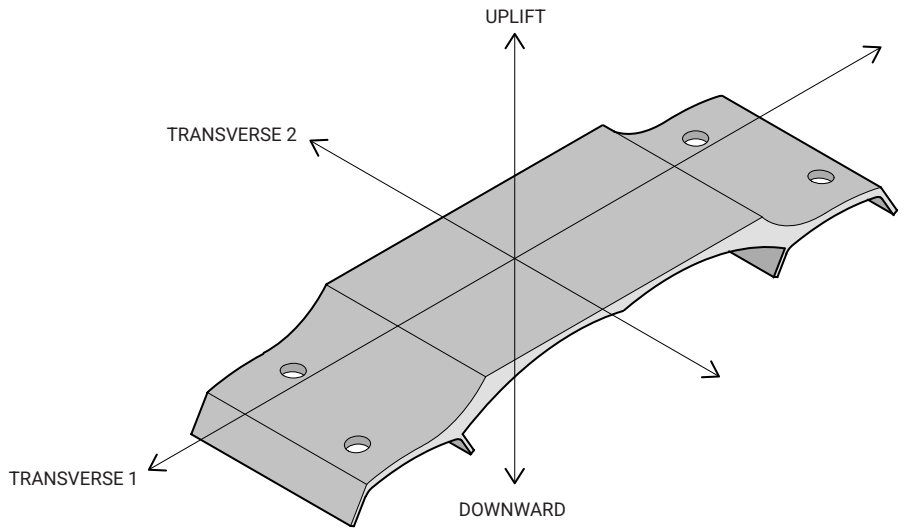
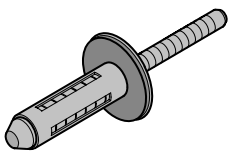


Figure 3: Allowable Loads

RL HELIOS RIVET		
Diameter	7.8 mm	
Grip Range	1.1 - 9.5 mm	
Material	5056 Aluminium	