

# RL HELIOS BRACKET

## For Solar System Installation on RL TopDeck T

The RL Helios Bracket provides a solution for fixing Solar Panels to TopDeck T roofing profiles without compromising warranties.



Helios bracket attached to TopDeck T  
(with frame for subsequent PV installation)

### DESCRIPTION

The RL Helios Bracket is an anodised extruded aluminium bracket specifically designed 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.

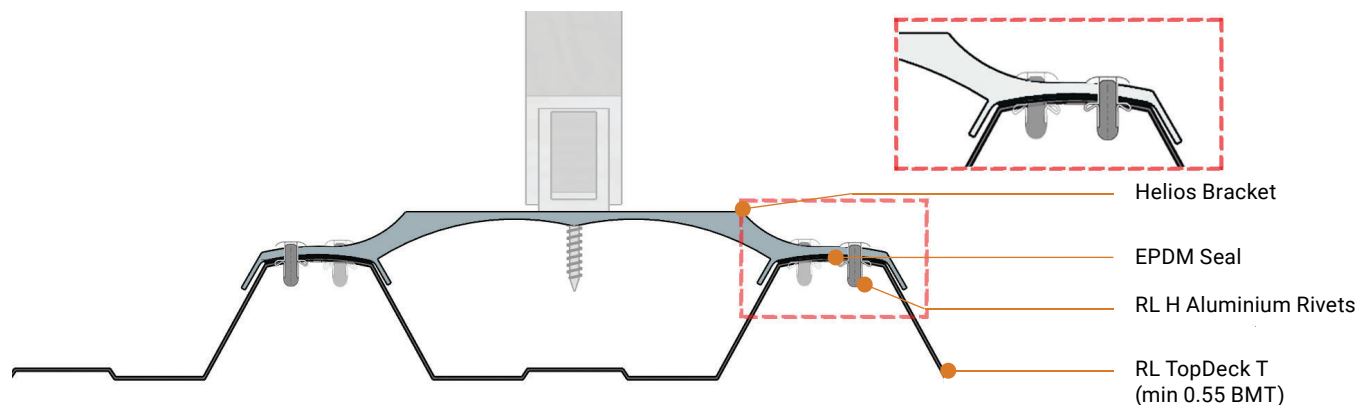
The RL Helios Bracket has been tested by RoofLogic for structural performance at the RL Testing Laboratory in Seaview.

### BENEFITS

- Specifically designed for use with RL TopDeck T
- The RL Helios bracket creates the interface between the PV frame and the roof.
- The PV frame is mechanically fixed to the RL Helios bracket, ensuring that the roofing profile remains unpenetrated by the PV installer.
- When the PV modules are installed on a frame system with a minimum of 150 mm space between the PV system and the roof there is sufficient space for cleaning underneath the modules as part of roof maintenance.

### MATERIAL AND FINISH

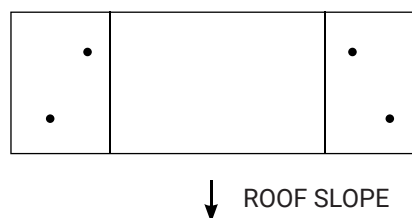
The RL Helios Bracket is constructed from anodised extruded 6063 T5 aluminum and includes an EPDM seal at the contact point with the RL TopDeck T roofing profile.



## INSTALLATION

- The RL Helios Bracket is to be installed into the TopDeck using four RL H Aluminium 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 TopDeck 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.

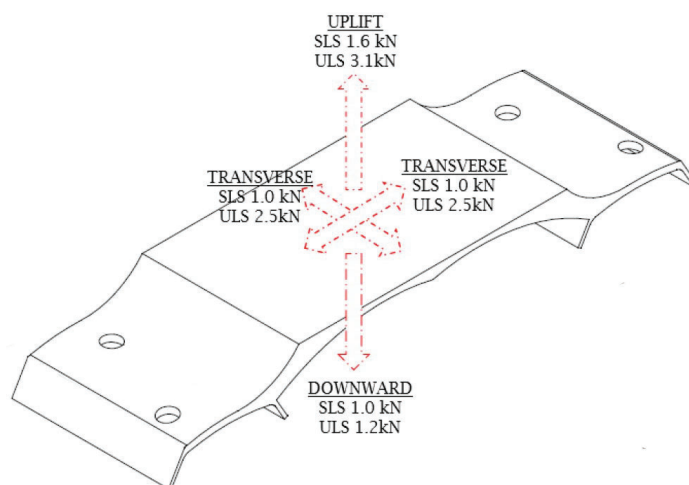


## TECHNICAL: HELIOS BRACKETS

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.

Allowable Loads	SLS	ULS
Uplift	1.6 kN	3.1 kN
Transverse	1.0 kN	2.5 kN
Downward	1.0 kN	1.2 kN

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



## TECHNICAL: RL H ALUMINIUM RIVET

Diameter	7.8 mm
Grip Range	1.1 - 9.5 mm
Material	5056 Aluminium

