

ASCENT

An aerial photograph of a solar farm. The solar panels are arranged in neat rows on a green grassy field. The panels are dark blue with a grid of white lines. The perspective is from a high angle, looking down at the panels. The background is a soft, out-of-focus green field.

Rail-less Metal Mounting System - Kliplok

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General information

ASCENT provides a new rail-less mounting system developed as a universal PV mounting system for Kliplock roof sheeting. The system includes aluminium profiles with special hollow structures and connections, making it easy to install.

ASCENT products are:

- » Easy to install
- » Innovative and engineered to speed up installation time
- » Backed by a 10-year warranty and AS/NZS1170.2:2011 AMDT 3 -2012 compliant

Applications:

- » Commercial and residential building

Features:

- » Extruded from Anodised Al 6005-T6 (Aluminium)
- » Can be preassembled, making installation quick and easy
- » Suitable for a variety of conditions and with popular PV panels currently in use
- » Inherent corrosion resistance results in lower maintenance and extended product life.
- » 10-year limited warranty

Material standard:

Material	Yield Strength [MPa]	
	Tensile Strength	Yield Strength
Al 6005-T6	295	263



Product information

This ASCENT product is a clamping system designed to fit PV panels to Kliplok metal roofing material. The clamping system consists of end clamps and mid clamps that are designed to fit into base clamp, fixing the panels in place. An earthing clip is also included in the system.



Figure 1 ASCENT mounting structure for Kliplok roofing sheets

Product features

- » Can withstand windy conditions of up to 35m/s
- » Can be used with most 40mm frame modules
- » Designed for use in large systems

The clamp is fitted and fastened over the Kliplok seam, spaced to have two clamps along each side of each panel, as seen in Figure 1. Adjoining panels are fastened with mid clamps. The mid clamps are shaped like an inverted top hat, fitting two panels in place when bolted into the clamp. The end clamps are 'Z'-shaped to keep the panels at the end of a row in place. These clamping methods can be seen in Figure 2.



Figure 2 ASCENT Kliplok mounting using the mid clamp to clamp 2 panels and the end clamp to clamp the panels at the end of a string



Components

Part Name	ASCENT Part Number	Picture
ASCENT Rail-less Rooftop clamp 100mm Kliplok	A3001030	
ASCENT Rail-less Rooftop Mid clamp Kliplok	A3001000	
ASCENT Rail-less Rooftop End clamp Kliplok	A3001010	
ASCENT Rail-less Rooftop Earthing Clip Kliplok	A0001012	
ASCENT Grounding lug	A0001000	

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