



ARCHITECTURAL PANEL SYSTEMS STANDING SEAM BRACKETS

By MetalPlus LLC



ARCHITECTURAL
PANEL SYSTEMS
— **AUSTRALIA** —

PRODUCT OVERVIEW



Architectural Panel Systems standing seam brackets are a new and innovative product designed to enhance the comfort, efficiency and safety when working on standing seam and snap lock projects.

The APS standing seam bracket is the only of its kind in the world, strictly designed for standing seam and snap lock roofing and cladding.

Architectural Panel Systems are now able to offer these 2 new brackets into the industry, the Ultimate Bracket and the Assister Bracket.

Both of these brackets are extremely beneficial in their own unique way and we have no doubt once you use these brackets, you will find that the installation of standing seam and snap lock roofing has never been so fast, efficient and comfortable.

This bracket is a great assistant and is suitable for use by roofers, plumbers, cladding installers, solar installers and carpenters.

PRODUCT OVERVIEW

THE ULTIMATE BRACKET

- » Adjusts from 14 degrees to 90 degrees.
 - » Double start crank system which you can adjust to 1 degree at a time.
 - » High grade powder coating to prevent corrosion.
 - » Custom designed rubber pads to prevent panel damage.
 - » Bracket installs on 25mm standing seam and snap lock profiles.
 - » Easily installed with one hand.
 - » Quick installation & removal.
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- » 135kgs rated wet or dry, follows OHSA requirements with proper fall arrest systems and tie downs.
 - » Designed strictly for a 300mm x 50mm aluminium trestle plank.
 - » Once aluminium plank is installed, it automatically locks into place.
 - » Commonly used for installers requiring a comfortable, larger and longer stationary work place.

THE ASSISTER BRACKET FEATURES

- » Has two clamping systems.
- » Has adjustable bars for various panel widths of standing seam and snap lock.
- » Designed to hold solar panels, skylights and ladders on the roof.
- » Comes with a spot to tie down your ladder either on the bottom or side of the roof.
- » Fits into tight places where planks do not work.
- » This tool can be used as a ladder.
- » This is a universal tool for any type of trade that's on a standing seam or snap lock profiled roof.

*Disclaimer: Architectural Panel Systems in no way takes responsibility for roofing or brackets being installed or used incorrectly. These brackets are designed to assist only and not to be used as a sole means of safety or fall protection.

INSTALLATION & SAFETY

The maximum spacing for both the Ultimate and the Assister bracket is 2.4 metres. The end of the aluminium plank must extend at least 150mm beyond the installed bracket and no more than 300mm. The Ultimate Bracket must be installed using with a 300mm scaffold grade Aluminium plank. When installing the aluminium plank, be sure that it is securely attached to the hook on the platform. Remember to install the detached safety lock on the rear of the platform of the bracket with the two 1/4" - 20 hex bolts. To ensure correct installation, try to remove the 300mm aluminium plank off the bracket's platform by pulling upward on the plank. If installed correctly, the plank should be impossible to remove. Adjust the brackets adjustable stand so that it is level or pitched towards the upper roof surface. Always inspect the brackets for any deterioration, deformation or damage. If any is found, discard brackets immediately, or repair is possible only with manufacture approved parts.

Do NOT attempt any of the following...

- » Weld or modify brackets
- » Build anything on top of the brackets

- » Use any lubricant on the brackets
- » Tie lifelines or any fall protection equipment to the brackets
- » Exceed 135 kgs wet or dry per bracket
- » Use brackets on snap caps or on a batten seam system or batten strips.

Do NOT install brackets in on any of the following...

- » Roofs that have frost, ice, snow or in weather conditions that produce these 3 elements. Do not leave the brackets installed overnight if these weather conditions may occur.
- » Roofs that are old, or poorly installed on an unsupported or unstable roof structure.
- » Panels that are shorter than 1200mm
- » If you are not a professional tradesman with experience on metal roofs.
- » If you are not familiar with the correct installation procedure.

Personal fall protection must be used at all times: safety lines, safety net, harness or a guard rail system that follows all OHSA regulations.

The surface where the brackets are to be installed must be clean of oil, dirt, debris, ice, snow or frost.

Capacity: Maximum loading capacity per bracket is 135kgs.

INSTALLATION & SAFETY

Where Not To Install Brackets

When installing brackets from 25mm up to 50mm on snap lock or nail strip, do not exceed 12/12 slope.

When installing brackets from 25mm up to 50mm on mechanical standing seam, do not exceed 12/12 slope. The only exception to this rule: if the mechanical seam has a 90 degree seam and the rubber pad of the bracket fits underneath the seam, then the bracket can be installed up to an 18/12 slope (see diagram below)

Do not install brackets on snap-lock seams that are not parallel on both sides of the standing seam. The raised seam on both sides must be parallel. This is critical, as if the seam is not parallel, the roof bracket will simply pull off. (see diagram below)

Warning: Failure to comply with the installation and safety instructions could result in serious injury or death. Use OSHA compliant fall protection on all installations. Standing Seam Brackets are to be used by experienced tradesmen, with full knowledge and understanding of their use.

Installation Procedure

To determine correct clamping pressure: Determining the clamping pressure is the same process for both the Ultimate Brackets and the Roofers Helper bracket.

Step One

» First, lift the stainless steel safety lock underneath the handle on the upper and lower left side of the bracket, where the clamping device is located.

» At the same time, lift the handle; this will disengage and open the clamping device.

» When facing the bracket, on the upper and lower right side of the clamping device are two silver-plated adjustable thumb screws. These two thumb screws are designed to adjust to various thicknesses of standing seam metal roof profiles and gauges. They are also part of the adjustment for the clamping pressure. While the clamping device is disengaged, loosen the two thumb screws by two or three complete turns counter-clockwise.

» Now, take the bracket and place it firmly over the standing seam.

INSTALLATION & SAFETY

» Grab the handles on the left and press down firmly. Initially, the brackets should be a little loose on the standing seam panel, if not, then disengage and unscrew the two thumb screws counter-clockwise one more complete turn and reclamp.

Step Two

» While the brackets are clamped loosely on the standing seam panel, tighten the upper and lower thumb screws by hand until both sides of the rubber pads are snug against the upright part of the standing seam panel.

Step Three

» Disengage the bracket again and make two complete clockwise turns with the thumb screws.

» Firmly clamp the bracket onto your standing seam. There should be between 30 and 35lbs of torque per square foot. In order to determine your torque, you will need an Allen socket and torque wrench. This torque process is required only once to determine if the thumb screws have been properly set for your particular standing seam panel

profile and gauge. Once this information is determined, it should be saved for all future installations on this particular standing seam panel, profile and gauge.

Where To Place & Use The Torque Wrench With Allen Socket

» Place the 3/8" Allen socket onto the torque wrench.

» Disengage the bracket while keeping it securely on the standing seam panel

» On the lower part of each handle is an Allen hole shape in the handle. Place the Allen socket in the hole and clamp firmly down with the torque wrench. If you have not reached 30 to 35lbs of pressure per square foot, disengage the bracket and turn both the thumb screws a quarter turn at a time and repeat until you have achieved the correct pressure average required.

» Everytime you move the brackets, always check the thumb screws to be sure they have been turned the right number of times.

» While working on the brackets, inspect the brackets several times a day to be sure that the base of the rubber pads of the bracket are flat against the pan of the standing seam panels.

INSTALLATION & SAFETY



Roofers Helper

The Roofers Helper is different from the Ultimate Bracket in the manner in which it is to be used.

No wooden or aluminium planks should ever be installed on the roofers helper. The two clamping devices on the Roofers Helper are to be installed side by side, in a horizontal position, along with the adjustable bars. The adjustable bars on the Roofers Helper are designed to be installed on various width standing seam panels.

Remember, the clamping process is the same as previously mentioned.

The Roofers Helper is designed to hold solar panels and skylights on the standing seam roof temporarily. The Roofers Helper is also designed to clamp at the base of the standing seam metal roof so you may tie your ladder to it. Roofers Helpers are ideal for use in tight spaces where the Ultimate Bracket will not fit.

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