Panel Plate

INSTALLATION GUIDE

INSTALLATION OF PANEL PLATE BASE PLATE

1. Begin by using proper safety mechanisms required by local jurisdiction.
2. Ensure that the wood blocking is installed to ES-1 standards for wind uplift and that roofing membrane is properly terminated on the exterior side of the wood blocking with a typical termination bar detail. The roof edge work must be completed to proceed.
3. Starting from any corner of the roof perimeter wood blocking, drop a chalk line 2.25" from the exterior edge of the wood blocking the entire length of the wood blocking.
4. From the outside edge of the wood blocking, mark a line 11" in on the chalk line. That is your starting point. The outside edge of first bracket starts on that line. The front edge of the brackets should be installed on the chalk line. The area between the chalk line and the exterior edge of the wood blocking should not have any brackets in it. This space is saved for the target patch.
5. From the first line mark off 16" OC.
6. All starting and ending brackets are installed 11" from the end of the wood blocking.
7. In an outside corner condition, there must be at least 4" between the corner brackets to allow for the target patch installation.
8. Use 2 #12 DP roofing fasteners per Base Plate, set the Base Plate in water cut-off mastic.
9. Only install the number of Base Plates that can be covered up with target patches in one day.

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INSTALLATION OF THE TARGET PATCH

1. Use a flashing material approved by the roofing membrane manufacturer to cover the base plate in a method acceptable by the roofing manufacturer. The flashing membrane is commonly referred to as a Target Patch. The patch must cover the base plate by a minimum of 2" on each side for EPDM and 1.5" on each side for thermoplastics but each membrane manufacturer has specific requirements that must be met.
2. Drill two ⅜” diameter holes in Target Patch spaced properly to fit tightly over threaded studs of the Base Plate.
3. Apply the Target Patch over the Base Plate and seal the target patch to the roofing membrane using standard roofing techniques.
4. Apply a sealant, typically water cut-off mastic, at the base of the threaded bolt and onto the Target Patch.

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INSTALLATION OF TOP BRACKET AND RAILS

Installation of the Top Bracket

1. Install the top bracket over the threaded bolts and secure with the supplied nylon lock nuts.

Installation of the Open and Closed Rails

1. Using small clamps, secure the Rail to the Top Bracket to begin the leveling process. The rail closest to the roof edge should be secured near the top of the vertical leg of the Top Bracket. The interior rail should be almost at the bottom of the vertical leg of the Top Bracket. This ensures that a 6 degree slope towards the interior of the roof is created to meet the warranty requirements of most panel manufacturers.
2. Once the desired placement of the rails is determined, secure the rails using the supplied self-tapping screws.
3. Use two self tapping screws per side of the top bracket. Each connection point of the rails to the top bracket should be secured with two fasteners.
4. Rails should not cantilever more than 8” past the last securement point.
5. When connecting two rails together, snip off 4” of the top portion of the rail and overlap bottom section of the rails 4” and secure with three of the supplied self tapping screws. Pre-Drill a pilot hole for this step.