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1.0 GENERAL

1.1 Module Clamp Kit Overview

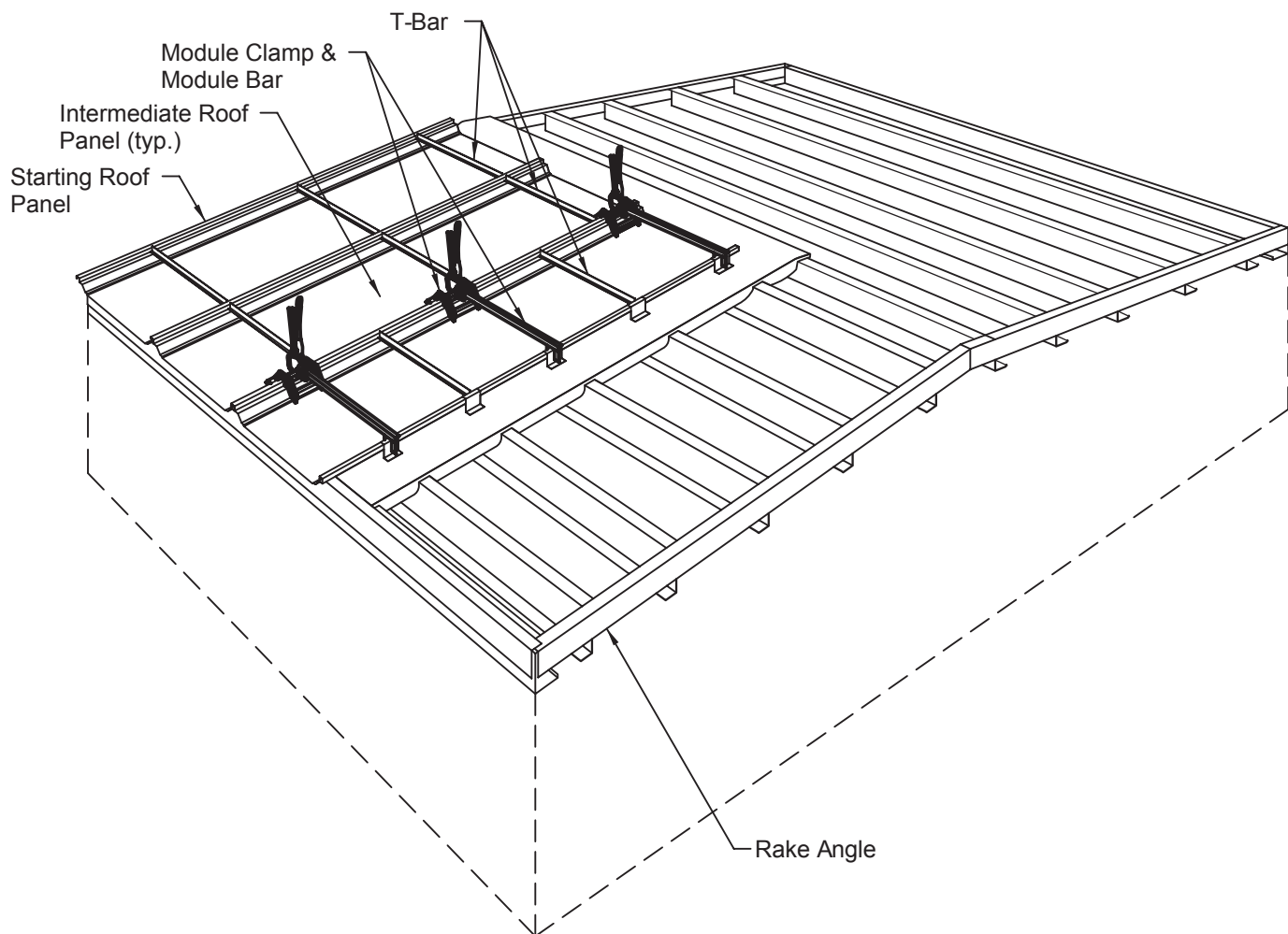
Holding module on a trapezoidal roof has always been a challenge. With the introduction of taller clips and more insulation under the roof panel, the challenge is even greater. Keeping panels on module reduces seaming problems, keeps seam lines straight from eave to ridge to facilitate clip slide travel during thermal expansion/contraction and maintains proper panel coverage. To assist with holding module, BRS has developed a patented module clamp and bar system. BRS believes it is the most effective way to hold module on a trapezoidal roof panel. This guide will describe how to use the module clamp/bar system.

BRS recommended module clamp/module bars to be spacing:

1/2" or 1 1/2" Clip Standoff - module clamp with T-Bars at each end of every panel(maximum panel length 50' -longer panels require an additional clamp at midspan).

2" and 2 1/2" Clip Standoff - module clamp with T-Bars at each end of every panel(maximum panel length 50' -longer panels require an additional clamp at midspan). Additional T-Bars are recommended no more than 15 feet apart.

3" Clip Standoff- Module clamp with T-Bars no more than 20 feet apart. Additional T-Bars are recommended to be no more than 10 feet apart.

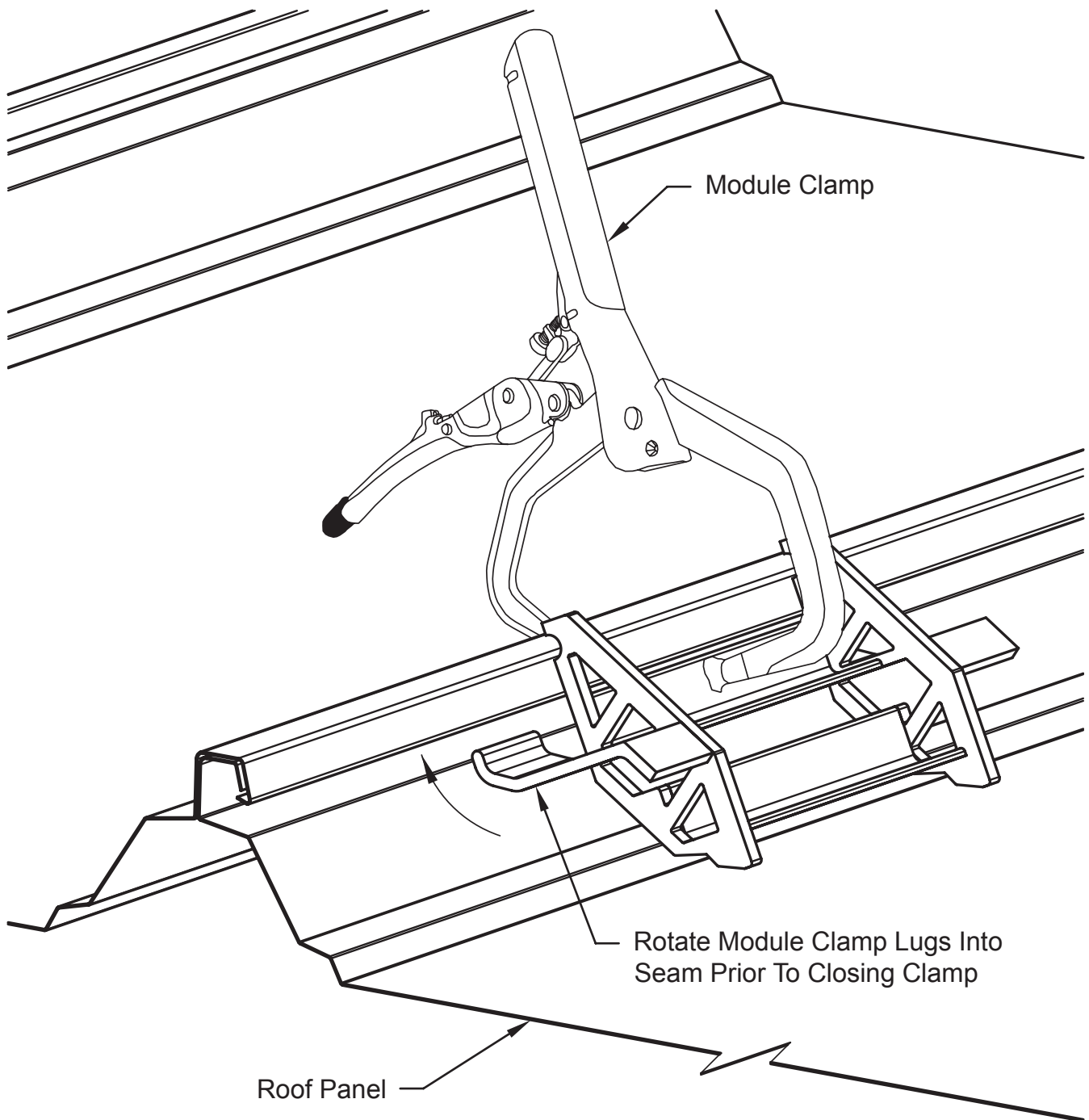


2.0 MODULE CLAMP

2.1 Attach Module Clamp to Panel

Install your first panel run and clips using a tape measure from the rake starter plate. Roll second panel run into place to establish one completed corrugation. Once you have a completed corrugation, you're ready to install the module

clamp. With the clamp in the open position, the lugs on the module clamp should be rotated up into the seam. The clamp needs be aligned with the purlin that the panel clip will be installed on.

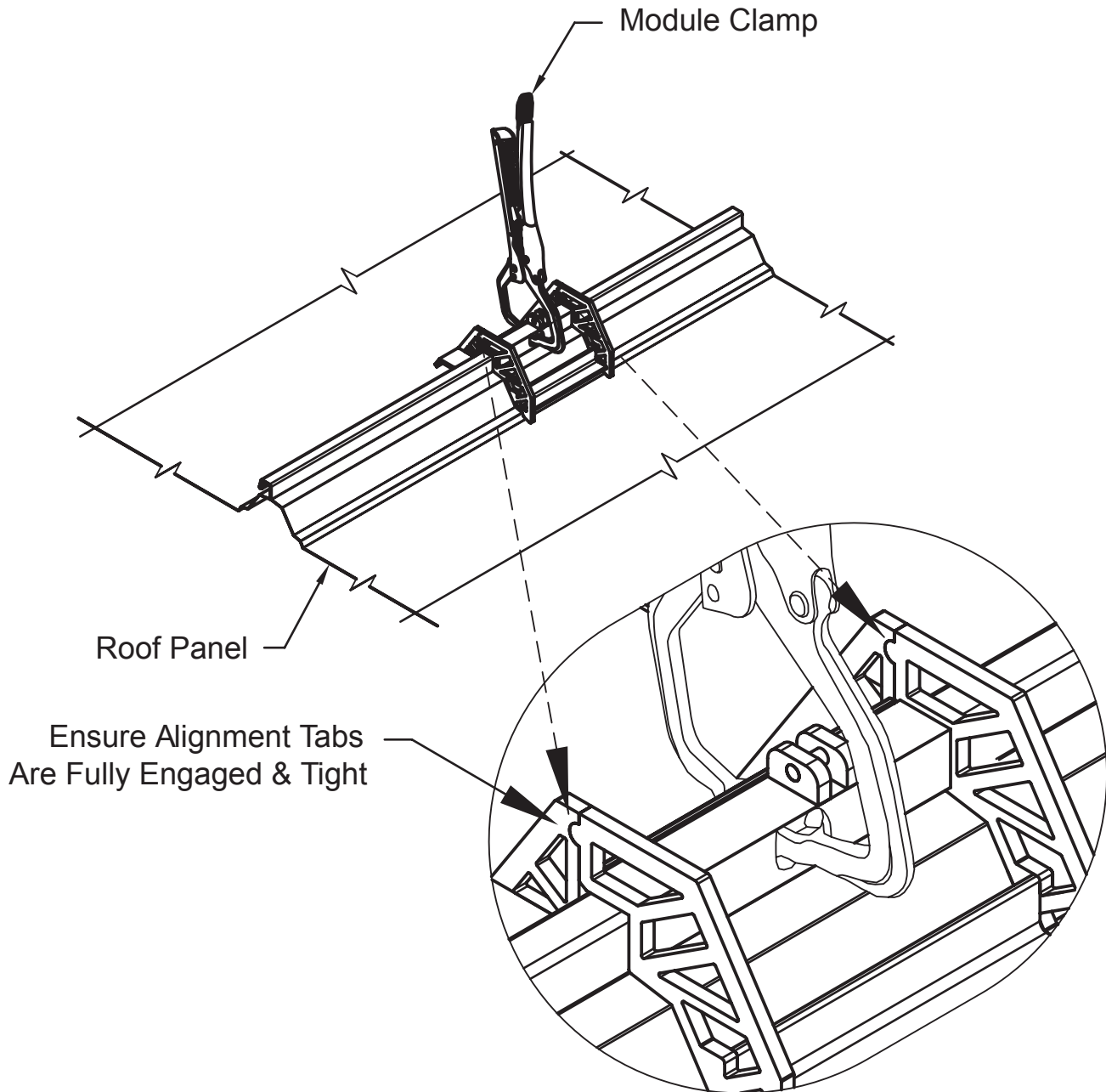


2.0 MODULE CLAMP

2.2 Proper Module Clamp to Panel Engagement

Once the clamp lugs are correctly nested into the seam, you will be able to close the clamp. The alignment tabs between the mating halves of the clamp should be fully engaged and tight to one another. The profiled legs of the module clamp should follow and be tucked tight to the profile of the corrugation.

The module clamp has an adjustment screw to adjust tension of the clamping pliers should the module clamp be applying force too tightly or too loosely.

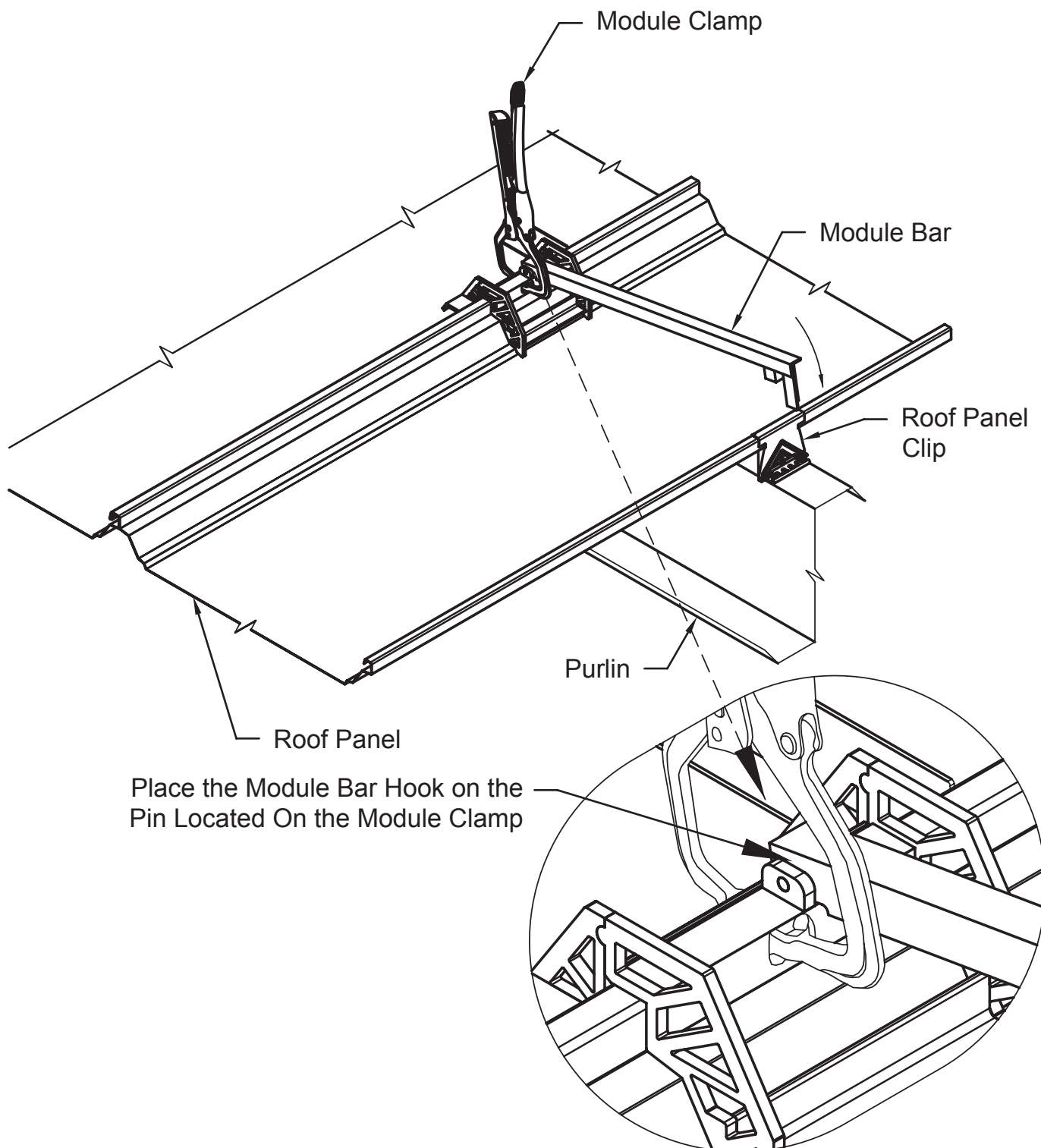


3.0 MODULE BAR

3.1 Module Bar Attachment to Module Clamp

Next, install the roof panel clip to the leading edge of the roof panel assembly, properly positioned over the roof purlin. Then, attach the module bar to the module clamp by placing

the notch located at one end of the module bar on to the pin located on the module clamp. Finally rotate the module bar down onto the roof panel and clip assembly.

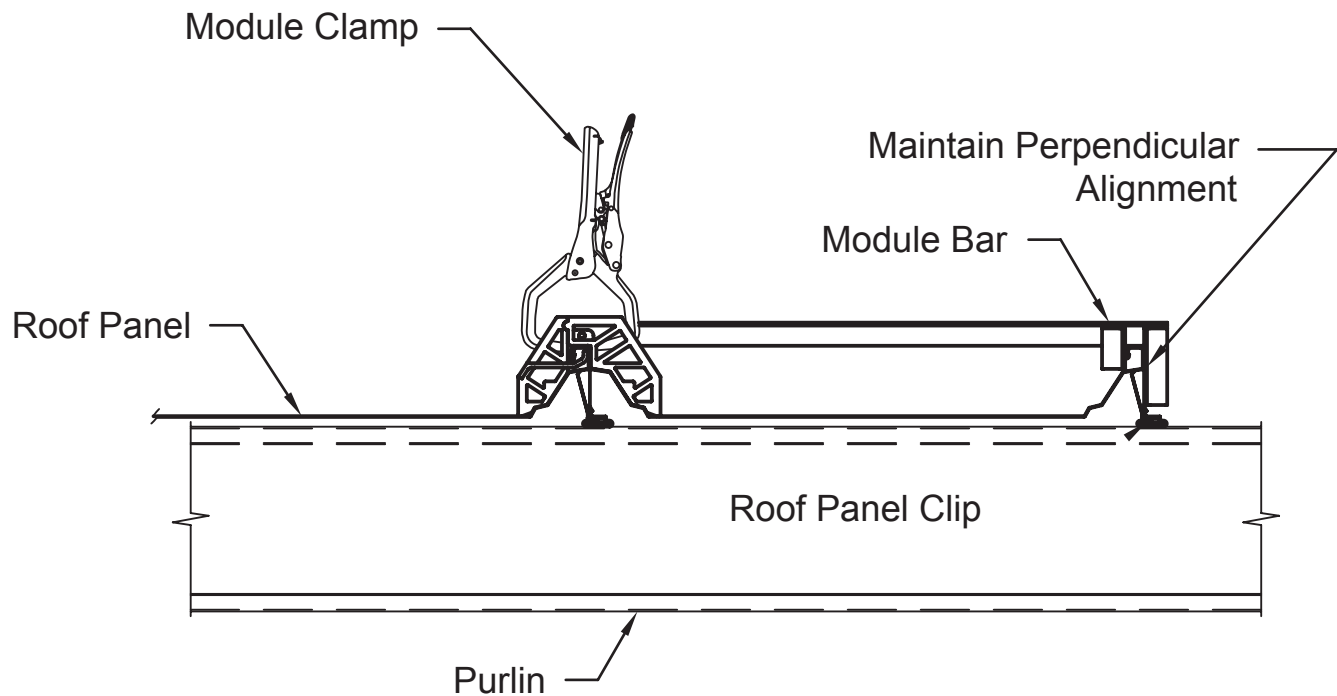
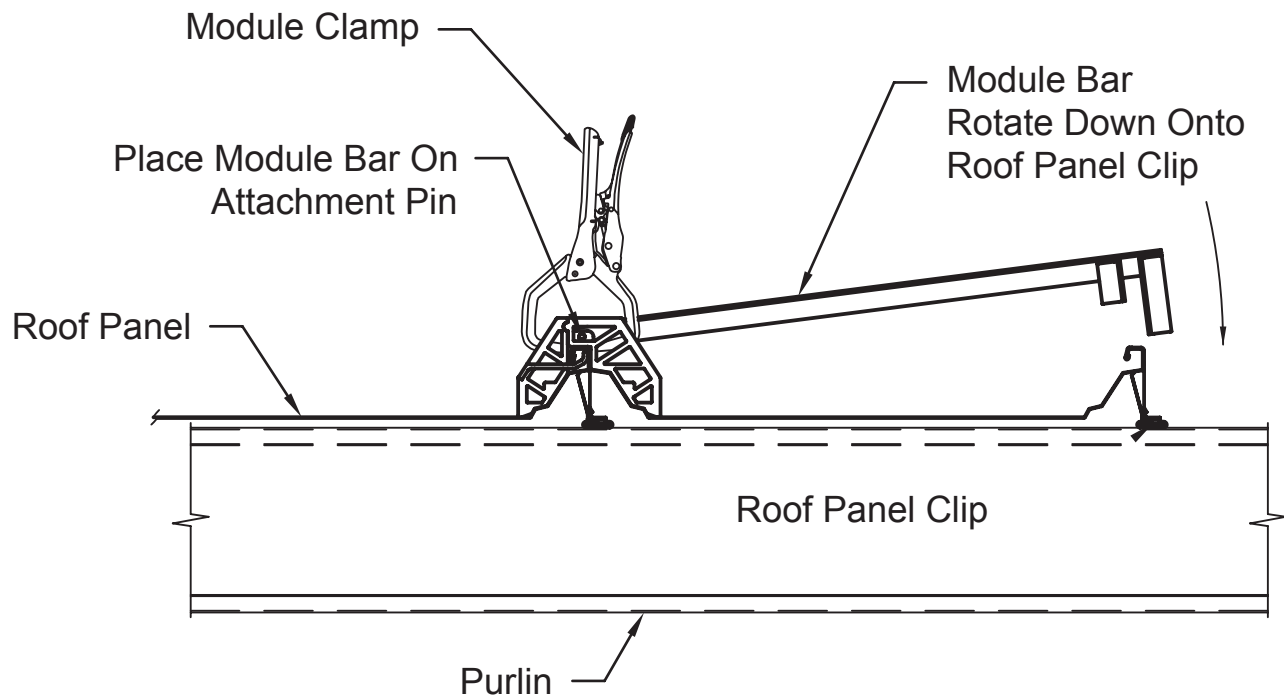


3.0 MODULE BAR

3.2 Module Bar Nesting and Perpendicularity

Once the module bar is rotated down onto the roof panel clip, the clip should be in perpendicular alignment to the roof

purlin. Maintain this perpendicular alignment while the roof panel clip fasteners are installed.

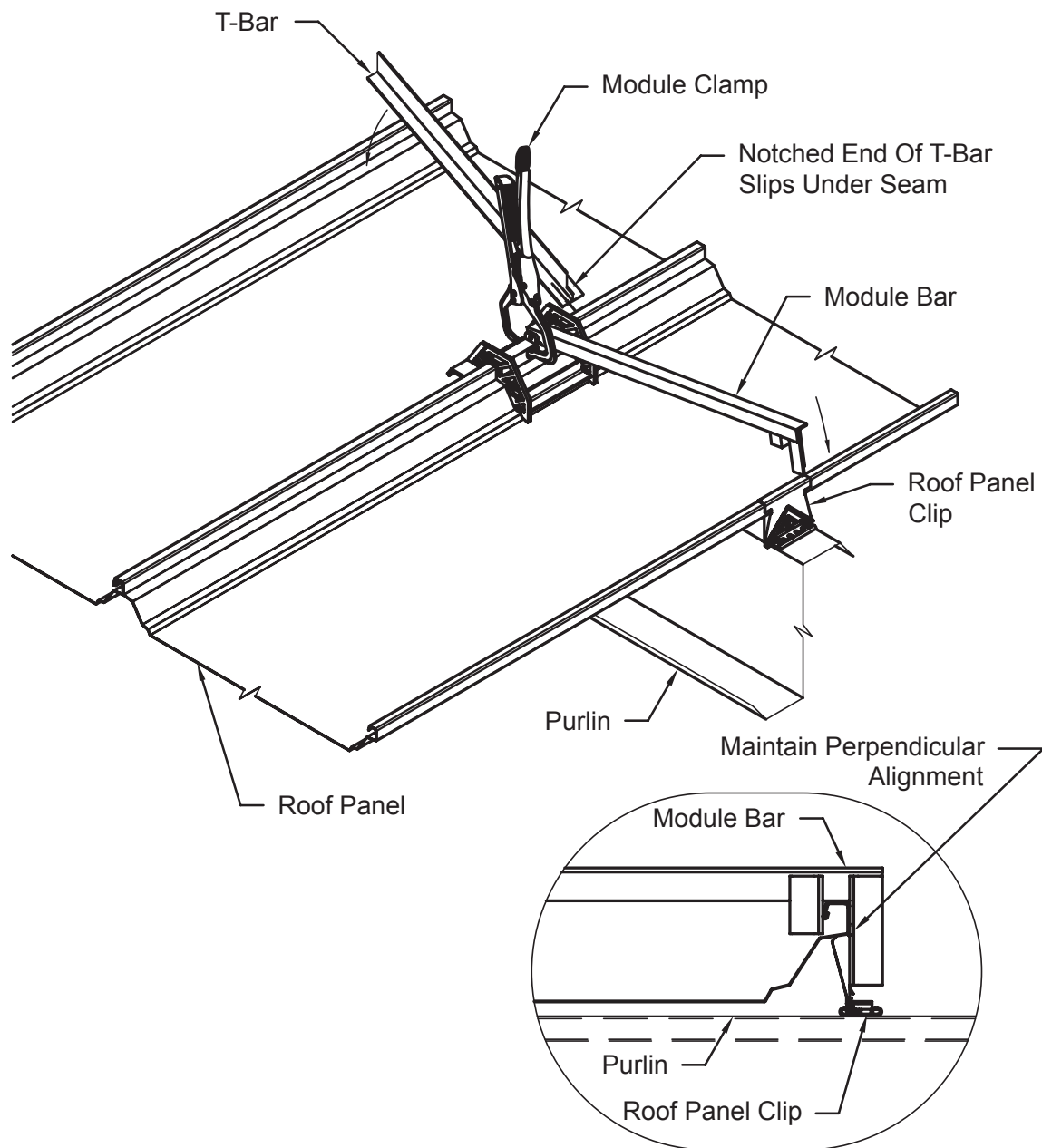


4.0 T-Bars

4.1 T-Bar Attachment

Once two completed corrugations are installed, the module T-Bars can be installed. The T-Bar has a notched end which is to be placed under the seam. The other end will be placed on the back side shoulder of the previous corrugation. This will prevent deflection due to the weight of the installer from

displacing the leading edge of the panel. As the roof progresses there should be three T-bars behind each Module Clamp. Where additional T-Bars are required for the taller standoff clips, they can be placed on the leading edge panel at the recommended spacings.



After all of the clips on a panel run have been installed and fastened into place, the module bars can be removed from the clamps to clear the leading edge for installation of the next run of panels. Once the new panels are rolled into place, remove the module clamps and place them on the

newly formed corrugation there by starting the process all over. Bring the T-Bars located farthest away from the leading edge and place in the gap left by the moved module clamp before installing the clip and module bar. Continue the process until the roof is completely sheeted.