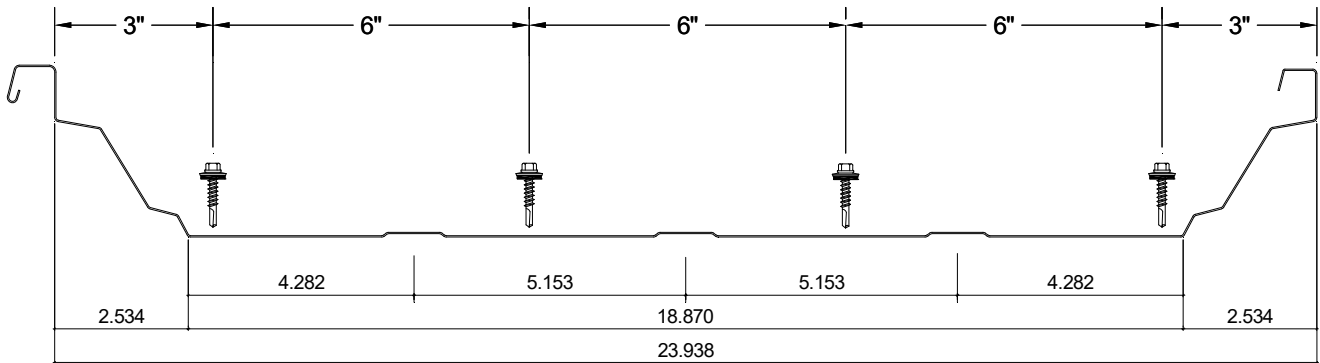
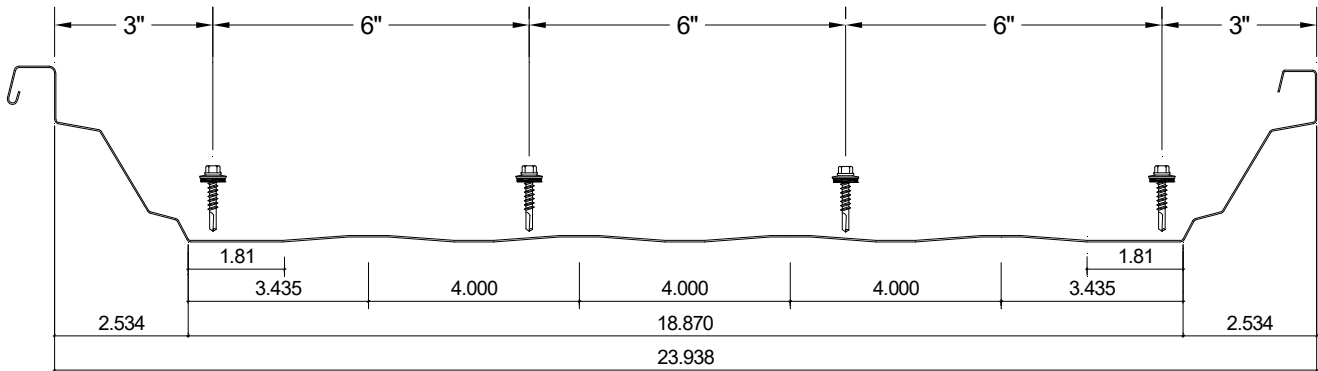


TS-324 roof panels had utilized a 4 fastener eave connection until the latest technology update. The old fastener pattern conveniently lined up with the existing hole punching at the end of the panel as shown.

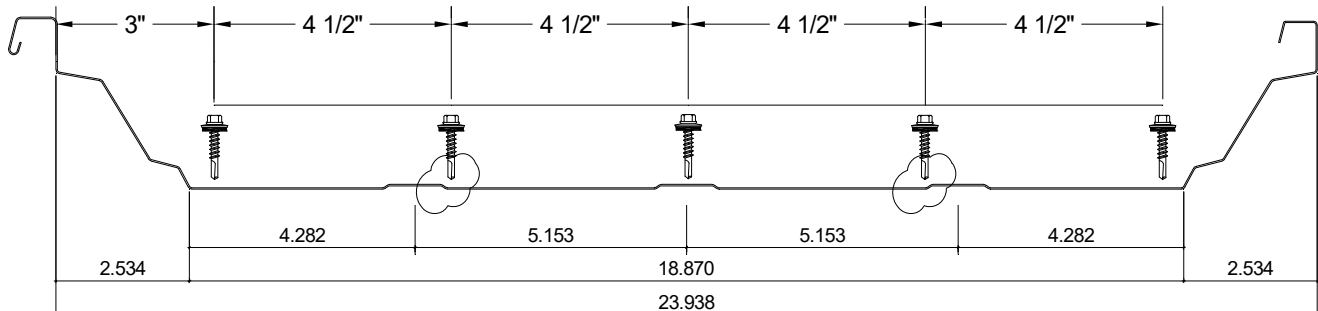


3 INTERMEDIATE RIB PANEL SECTION



STRIATED PAN PANEL SECTION

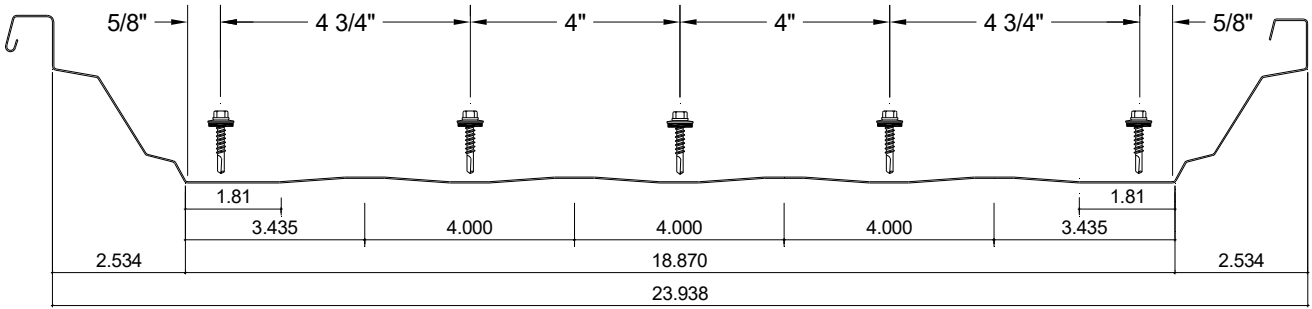
The technology updates (Installation Guide) released April 2021 and (Product Application Guide/ Rev 13) released June 2021 called for an additional eave fastener at a minimum and changed the size to 1/4-14x1 1/4". The fastener spacing no longer had convenient landmarks on the panel for field alignment of the fasteners so the spacing was laid out with the outermost fasteners still aligned with the factory punching and the rest evenly spaced for convenient field layout as shown below. It was brought to our attention by a licensee reviewing the tech update that we had an oversight in the layout due to fasteners falling on the edge of the minor ribs. See the drawing below.



3 INTERMEDIATE RIB PANEL SECTION

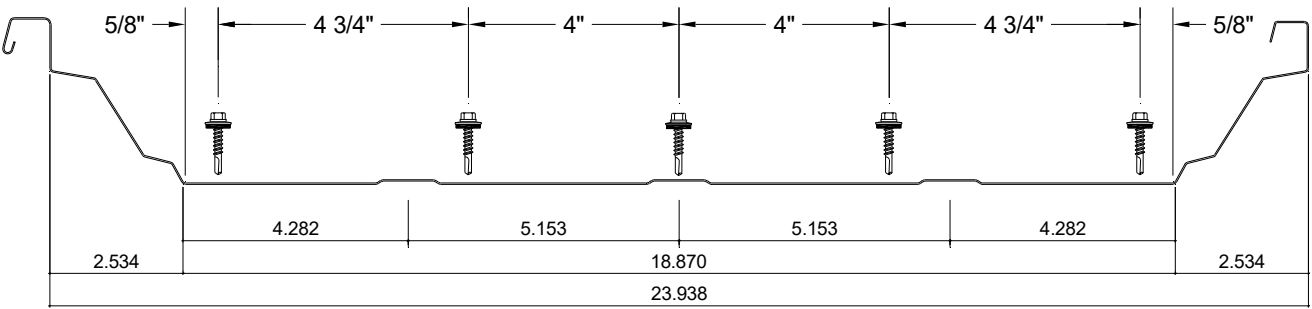
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After a second look, *this is the recommended fastener spacing for the striated panel* which locates the outermost fasteners aligned with the factory punching as before and the rest centered in the flats of the striation. This makes for a tight joint with easy to find field reference points.



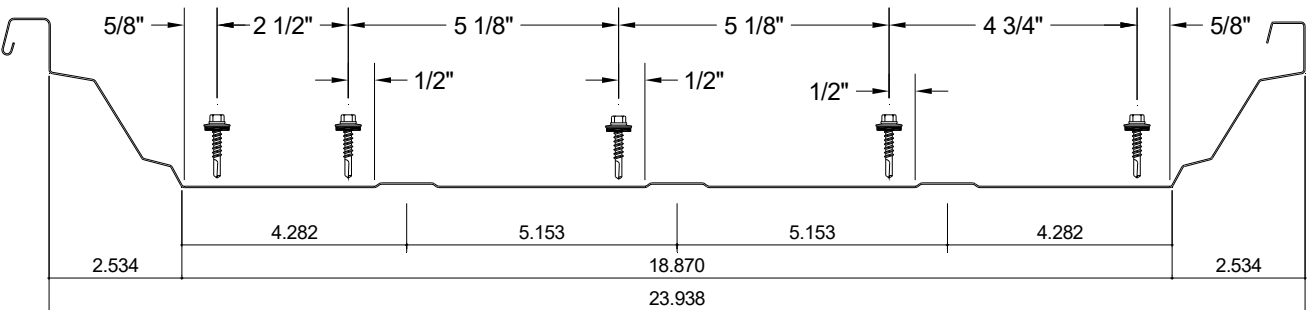
STRIATED PAN PANEL SECTION

Maintaining the same fastener layout with the minor ribs causes one of the fasteners to land on the center of the middle minor rib which will cause a water trapping dimple and the adjacent flats to fish mouth.



3 INTERMEDIATE RIB PANEL SECTION

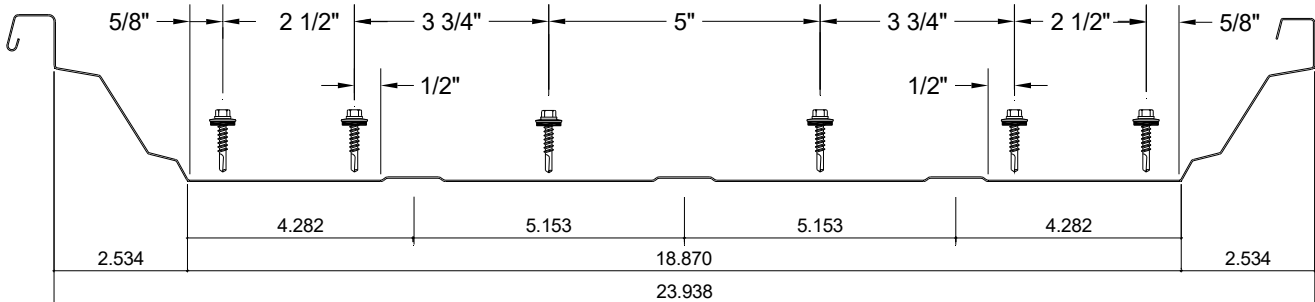
A better solution is to shift the three center fasteners to one side of the minors for a landmark to locate the fasteners during installation. This does leave the installer the chance not to be consistent in the installation process.



3 INTERMEDIATE RIB PANEL SECTION

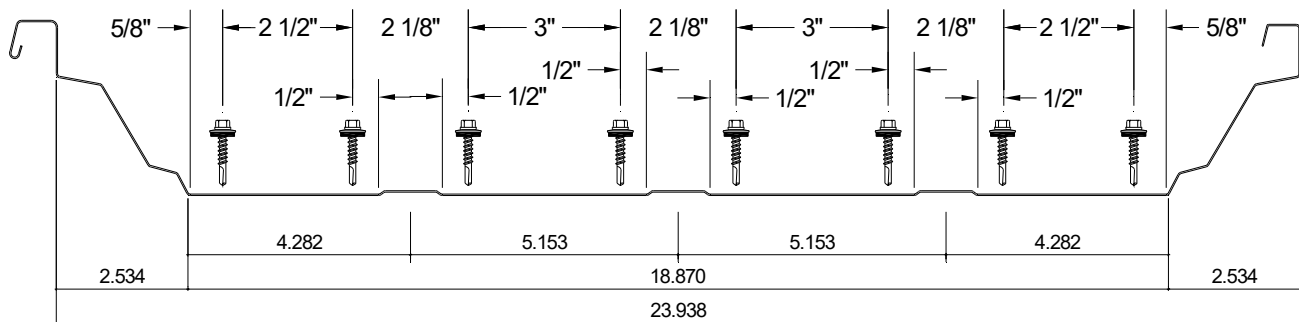
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The *recommended solution* is to add an additional fastener with the spacing shown below. This makes the spacing symmetrical while locating the fasteners in the flat and simplifying field installation.

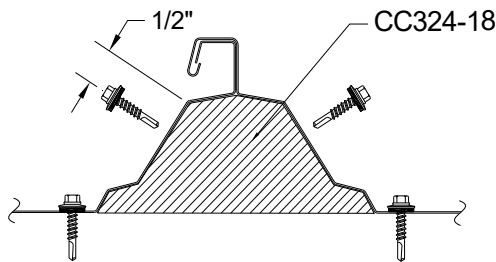


3 INTERMEDIATE RIB PANEL SECTION

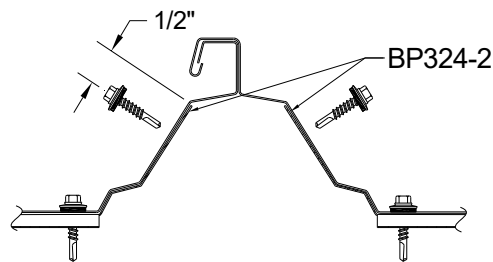
The *recommended solution when additional fasteners are required* for ultra-long panel runs, roofs with large curb loads, large solar arrays, or severe uplift loads. Fasteners located in ribs must penetrate 18 ga inside closure and backup plate flange respectively to assist in resisting panel rotation at the end lap and eave joints.



3 INTERMEDIATE RIB PANEL SECTION



**RIB PANEL SECTION
 AT EAVE**



**RIB PANEL SECTION
 AT END LAP**

NOTE: All spacings are nominal to the closest 1/8" for field installation purposes.

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