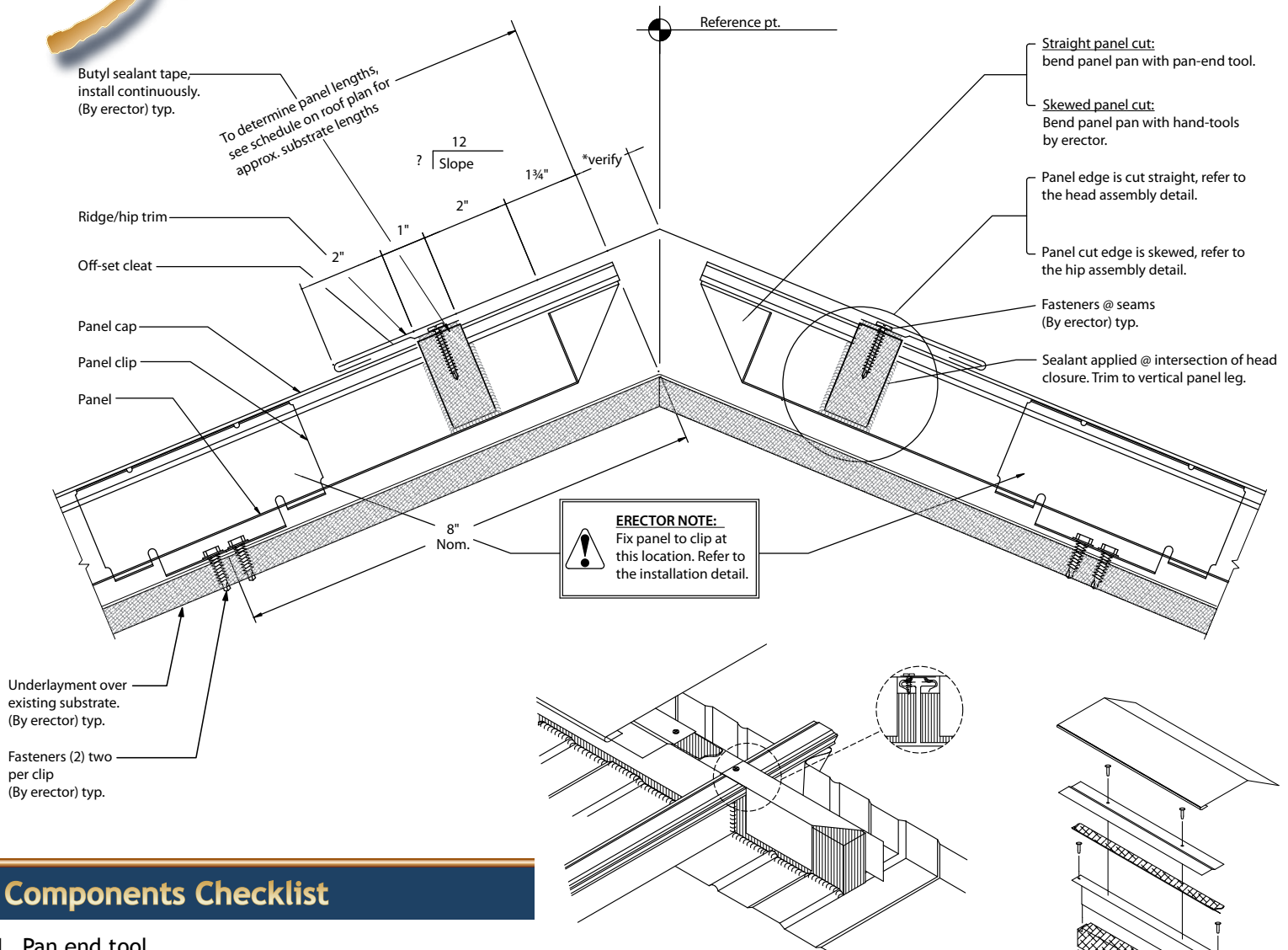


# SERIES 300

## Featured Detail Fixed Ridge/Hip



### Components Checklist

#### 1. Pan end tool

This custom made tool is available only from IMETCO. Use of this tool assures that the proper amount of panel is bent up, creating the final line of defense against water infiltration. Pan End Tools are made to fit the specific panel size, be sure to order the correct tool for the correct panel width.

#### 2. Head closures

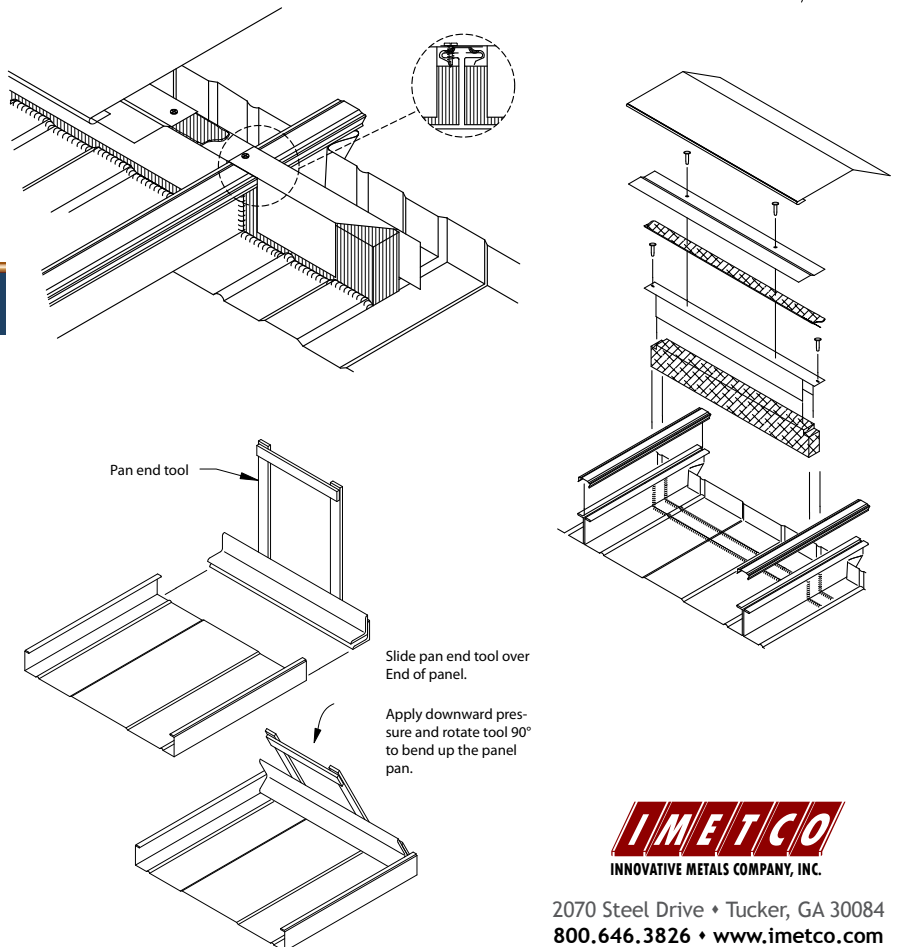
This pre-manufactured assembly comes from IMETCO with the foam insert. Order one closure for each panel that goes to the ridge - be sure to order closures to fit the correct panel width.

#### 3. Pancake head screws

These fasteners fix the ridge cleat to the head closure.

#### 4. Butyl sealant

Purchase from IMETCO.



**IMETCO**  
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## Belts & Suspenders The IMETCO Way

Series 300's *fixed ridge/hip* is one of the many system details that helps ensure proper system performance as described below:

- **Panels are fixed at a single location**  
Fixing the panel at only one location, under the ridge cap, allows unlimited expansion and contraction. Unless panels are extra long or curved, we typically fix at the ridge.
- **Pan-ended panels**  
Pan-ending, or turning the panels up at the ridge, is the last barrier of protection against water infiltration. It is vital that the installer takes this extra step. Also, since no snipping or cutting is required, a continuous water barrier is created.
- **No concealed fasteners**  
Concealed fasteners are a popular method of metal roof attachment. However, the entire Series 300 system features details that do not require any concealed fasteners. Why put a hole in a perfectly good panel?

Notice the careful attention paid as the top clip is fastened to the deck, but aside from the single fixed condition, panels are not fastened to the clip or the deck. Instead, they are formed to permanently engage with the clip. The ridge cleat is fastened to the head closure, which is compressed into the panel, and the ridge cap is snapped onto the cleat.

- **Butyl tape is used to seal around the fastener threads, even though the ridge cleat is fastened to the head closure under the ridge cap**

## Indecent Exposure The Competition's Way

Our competitors take a different approach at the eave, which can result in diminished system performance as described below:

- **Many panel systems fix the panel through the seam leg into the clips.**  
This creates an entry point for water.
- **Some systems fix the panels through the pan behind the head closure.**  
Since the detail does not call out for the head closure to be set in sealant, nor are we assured of a compression fit, water can get behind the head closure and break down at the fastener.
- **Some systems fasten the ridge cap through to top of the cap itself into the ridge cleat.**  
This is an exposed fastener. Even fasteners with neoprene washers become sources for water entry over time.

## Elevator Pitch

Beauty meets performance in the ridge detail. Although there are no exposed fasteners, there are many levels of waterproofing protection. First is the compressed foam of the head closure, second the butyl sealant behind the head closure and on the vertical legs, and third is the butyl tape that seals the threads of the concealed fastener at the ridge cleat. The last line of defense is the panel itself, folded up to damn any water that gets through.



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