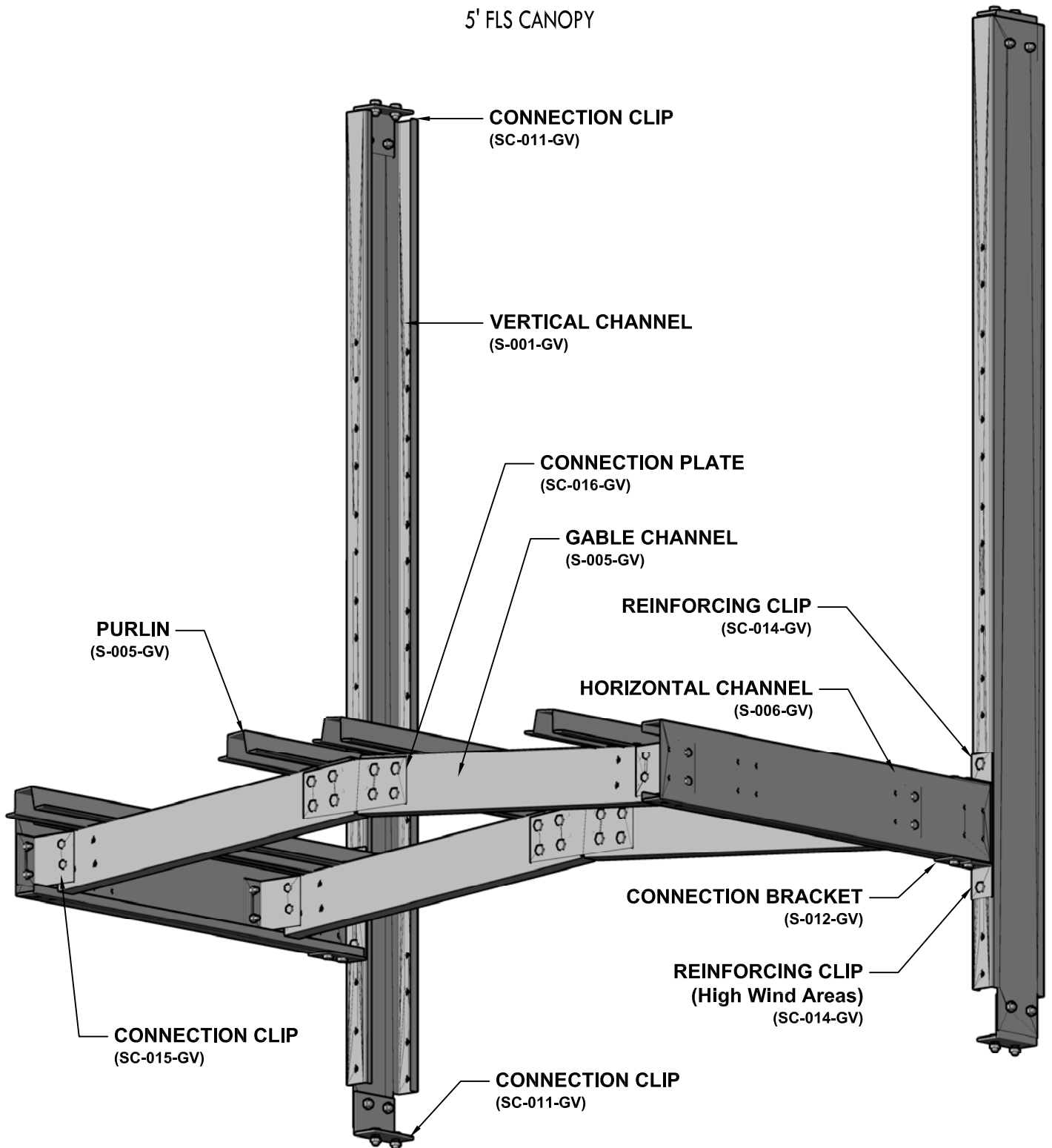


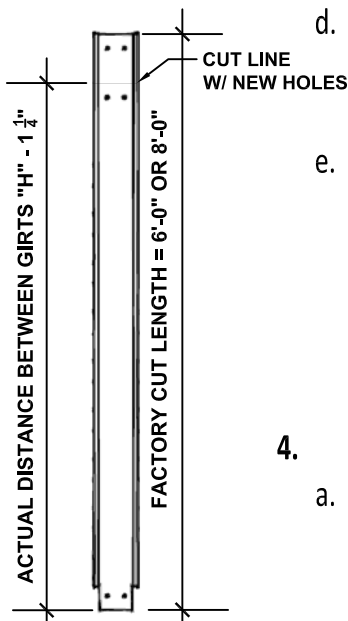


## INSTALLATION INSTRUCTIONS

5' FLS CANOPY

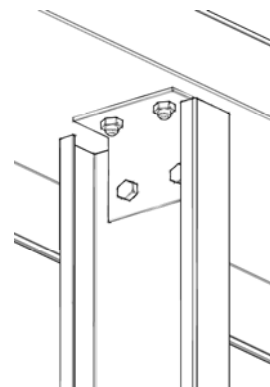






**FIGURE 3**

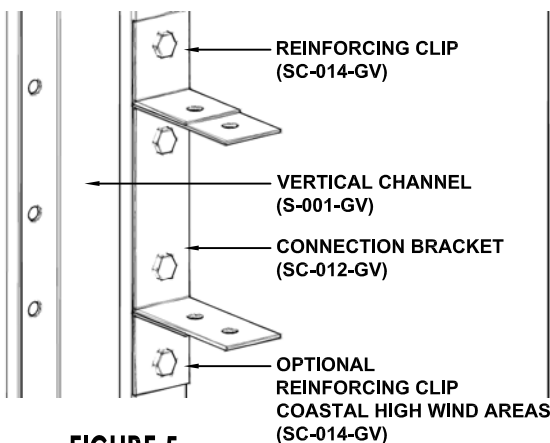
- d. Attach the Clips, (Part SC-011-GV), to both ends of the Vertical Channels with (2)  $\frac{3}{8}$ " diameter bolts. The 3" leg of the clip attaches to the Vertical Channel.
- e. Using  $\frac{3}{8}$ " diameter bolts, attach the tabbed end of the Vertical Channel, open "C" facing toward the center, to the drilled girt holes. Level and plumb the Vertical Channel in both directions. Using the top connection clip, mark the hole locations and drill  $\frac{7}{16}$ " diameter holes in the upper girt or eave strut. Bolt together with  $\frac{3}{8}$ " bolt/nuts. (**Figure 4**) Repeat for other Vertical Channel.



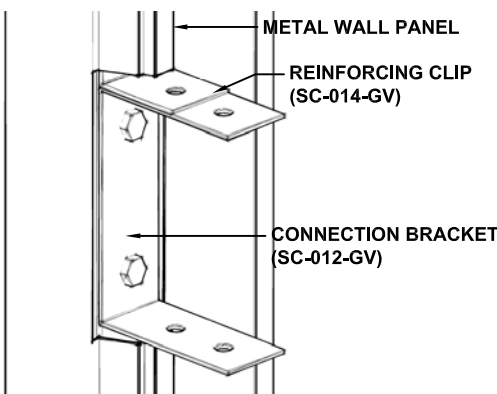
**FIGURE 4**

#### 4. Installing the Horizontal Channels

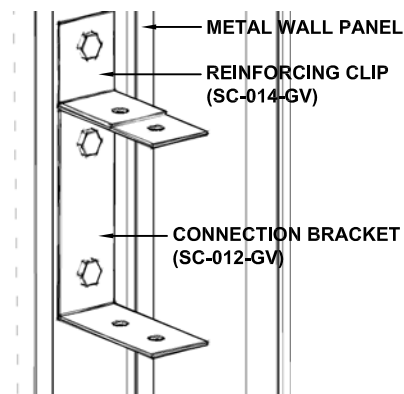
- a. Determine the mounting height of your canopy. The Vertical Channel is punched with a variety of holes to choose from.
  1. **Figure 5** - Structural Connection Detail - Top Reinforcing Clip (SC-014-GV), Connection Bracket (SC-012-GV) and an optional bottom Reinforcing Clip (SC-014-GV) for coastal high wind areas, all connected with  $\frac{3}{8}$ " bolt/nuts.



**FIGURE 5**

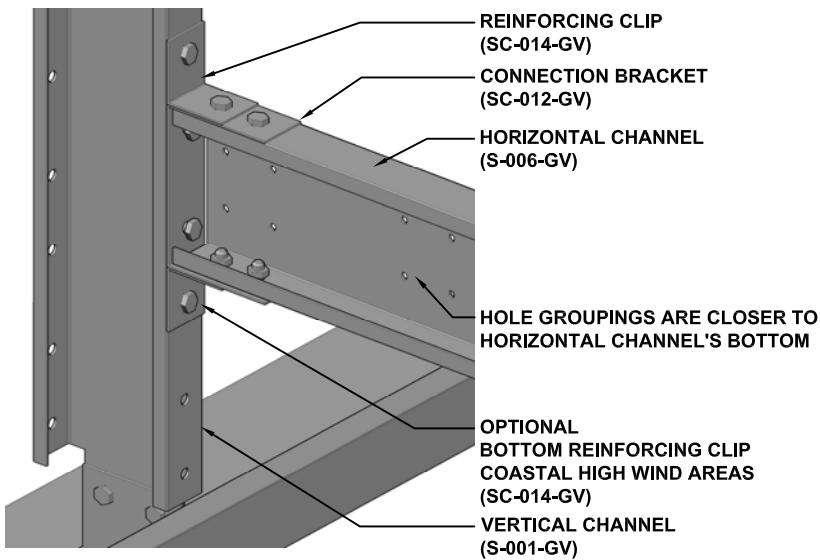


**FIGURE 6**

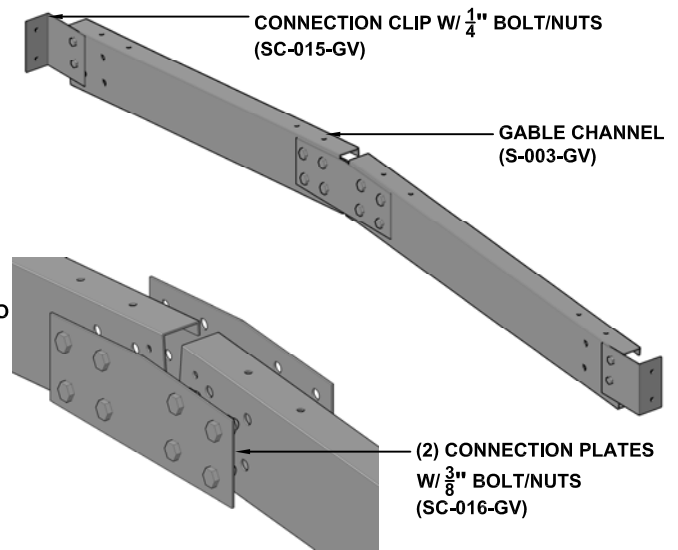


**FIGURE 7**

2. **Figure 6** - Use your selected holes in the Vertical Channel to drill pilot holes through your metal wall panel. If the pilot hole lands on or near a panel rib, cut a (+/-) 2" x 6" hole to allow the bracket to penetrate through the panel as shown (**Figure 6**). **MAKE SURE YOU ALWAYS INSTALL THE TOP REINFORCING CLIP (SC-014-GV).**
3. **Figure 7** - If your bracket location falls in the flat of the wall panel you may surface mount the Reinforcing Clip (SC-014-GV) and Connection Bracket (SC-012-GV) as shown. You may want to remove some of the batt insulation to allow a tight connection. **MAKE SURE YOU ALWAYS INSTALL THE TOP REINFORCING CLIP (SC-014-GV).**
- b. Horizontal Channel (S-006-GV) - The bottom of the Horizontal Channel is identified by the  $\frac{1}{4}$ " holes in the face of the member. These holes are closer to the bottom than the top. The open part of the "C" should face to the center of the canopy as shown on the cover of the instructions. Level and bolt the Horizontal Channel to the Connection Bracket and Reinforcing Clip as shown in **Figure 8** using  $\frac{3}{8}$ " bolt/nuts.



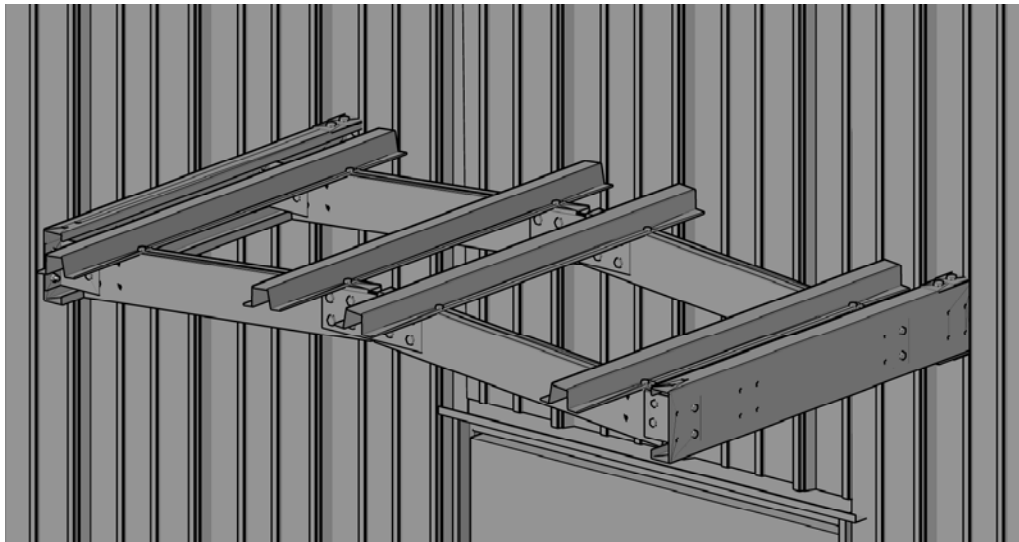
**FIGURE 8**



**FIGURE 9**

**5. Secondary Framing**

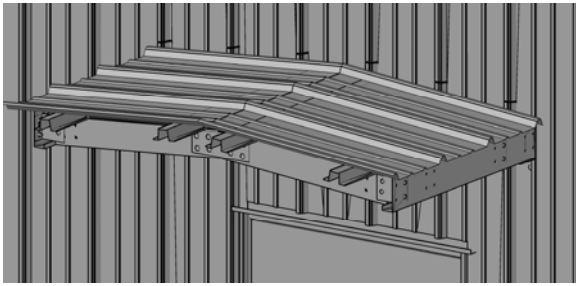
- a. **Gable Channels** - Bolt together (2) sets of gable channels as shown in **Figure 9**. Each set consists of (2) Gable Channels (S-003-GV), (2) Connection Plates (SC-016-GV), (2) Connection Clips (SC-015-GV), (8) 3/8" bolt/nuts and (4) 1/4" bolt/nuts. **Note holes for purlin attachment must be on top of Gable Channels.** Align Gable Channels to 1:12 slope prior to final bolt tightening. Using 1/4" bolt/nuts, connect the gable assemblies to the Horizontal Channels as shown on the cover sheet.
- b. **Hat Purlins** - Attach (4) Hat Purlins to the Gable Channels using 1/4" bolts/nuts. If necessary, use a channel lock pliers to squeeze the Hat Purlins to allow the holes to line up. See **Figure 10** for a completed FLS frame. Purlins are not punched symmetrically, shorter cantilever toward wall.



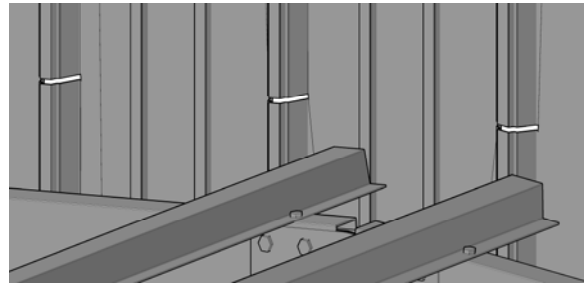
**FIGURE 10**

**6. Roof Panel & Trim**

- a. **Standard Transition Flash Installation for "R-Panel" wall panel**
  1. Slide roof sheet onto the purlins and against the building's wall sheets as shown in **Figure 11**. Center the sheet, mark each of the major ribs at the top of the roof panel as shown. Mark each end of the roof panel too. Remove roof panel and set aside.

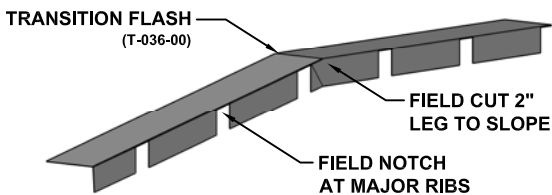


**FIGURE 11**

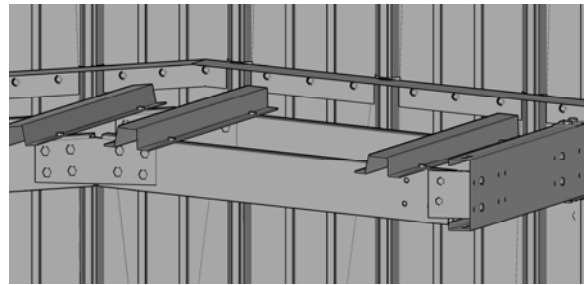


**FIGURE 12**

2. Cut each of the major ribs as shown in Figure 12 following the roof slope. **Do not cut the minor ribs or the flat of the panel.** If the end of the roof sheet ends on a major rib, only cut the portion of the rib in line with the roof panel.
3. Transition Flashing (T-036-00), 2" x 4" angle flashing, 2" leg down, 4" leg over the roof panel. In the center of the flash, make a single cut in the 2" leg. This will allow the flashing to follow the roof slope. With the flashing centered on the canopy, push the flashing to the wall and mark a vertical lines on the 2" leg on each side of the major ribs. Notch the 2" leg as in **Figure 13**. Trim off any part of 2" leg that interferes with the horizontal channel.



**FIGURE 13**

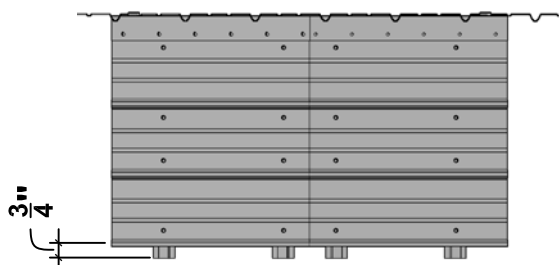


**FIGURE 14**

4. Using stitch screws (F-052-00) attach the 2" leg to the wall sheet. Locate fasteners 3" on center as close to bend as possible. Place a bead of caulking (not furnished) on top of transition flash following the contour of the wall sheet.

**b. Roof Panel**

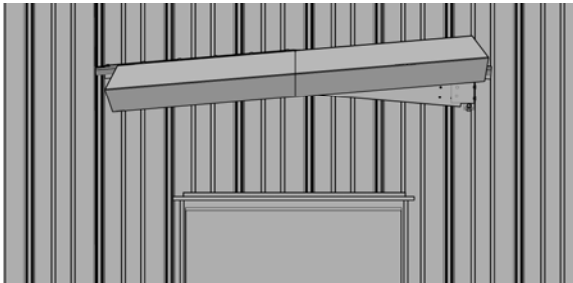
1. Place the roof panel on the canopy frame. Center and slide under the transition flashing. Locate the roof panel per **Figure 15**. Measure  $\frac{3}{4}$ " from end of Hat Purlin to centerline of panel rib. Attach roof sheet to purlins with Structural Screws (F-051-00) using the pattern shown in **Figure 15**.
2. Place a strip of Tape Sealant (M-061-00) to the roof panel's last major rib under the Transition Flashing. Fasten Transition Flash to the Roof Sheet using Stitch Fasteners (F-052-00) 6" on center. Do not fasten to Horizontal Channel until Eave Trim is installed.



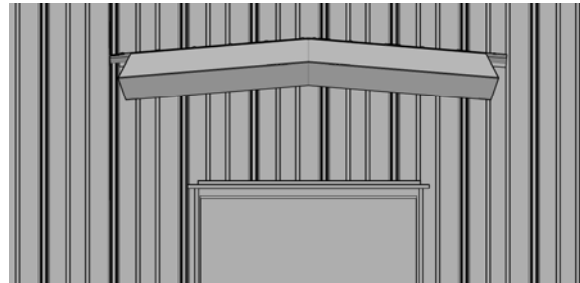
**FIGURE 15**

c. **Rake and Eave Trim**

1. On the outer most rib of the Roof Sheet, place another strip of Tape Sealant (M-061-00) running the length of the rib.
2. Align the center of the Rake Trim (T-081-00) with the center of the roof sheet and press the left side on to the Tape Sealant. Attach the left side of the Rake Trim to the Roof Sheet using Stitch Screws (F-052-00) 6" on center.

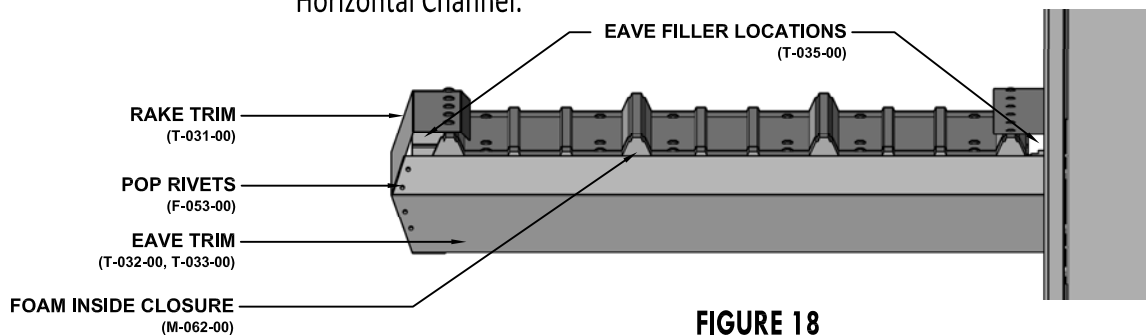


**FIGURE 16**



**FIGURE 17**

3. On the center mark, cut the Rake Trim from the bottom to the top horizontal leg. Slide the right side behind the left and press the Rake Trim into place upon the Tape Sealant on the Roof Panel (Figure 17) . This cut does not have to be perfect because it will be covered with the Peak Plate (T-034-00). Attach the right side of the Rake Trim with Stitch Screws 6" on center.
4. Measure the distance from the Rake Trim to the wall panel to determine the length of Right/Left Eave Trim. Notch around panel ribs as required to fit tightly against the wall. Cut each side separately due to wall panel rib locations. Align the center line of the trims and attach the Eave Trim the Rake Trim using Pop Rivets (F-053-00), (4) per connection. Install a Foam Inside Closure on top of the Eave Trim and below the Roof Panel. Square the Eave Trim with the Roof Panel and install Structural Roof Screws through the Roof Panel, Eave Trim and Horizontal Channel.



**FIGURE 18**

5. Cut a piece from the Eave Filler (T-035-00) to fill in the gaps shown in Figure 18. Attach with Pop Rivets or Stitch Screws from below.
6. Attach Peak Plate over the cut at the center of the Rake Trim using (4) Pop Rivets.

d. **Soffit Sheets**

1. Option #1 - If you have outside foam closures matching your wall panel configuration, attach Soffit "F" Trim (T-037-00) with foam closures to the wall panel following the line of the underside of the canopy framing. Cut Soffit Sheet to span from Soffit "F" Trim to the bottom leg of the Rake Trim. Attach each Soffit Sheet (C-044-00) with (4) Soffit Screws (F-054-00) to the underside of the Gable Channels. The Soffit Panels can be easily cut with a tin snips.

2. Option #2 - Cope the Soffit Sheet ends to match the configuration of the wall panel. When you have it so it fits nicely to the wall, cut the front end so that it will lie on the Rake Trims bottom leg. Attach Each Soffit Sheet with (4) Soffit Screws to the bottom of the Gable Channels.

**7. Clean Up**

- a. Using a broom, sweep any metal chips off the roof. The Kynar500/Hylar 5000 Fluoropon Paint is very durable and if you have any marks or dirt on your roof or trim, it normally can be removed with water and a rag.

