



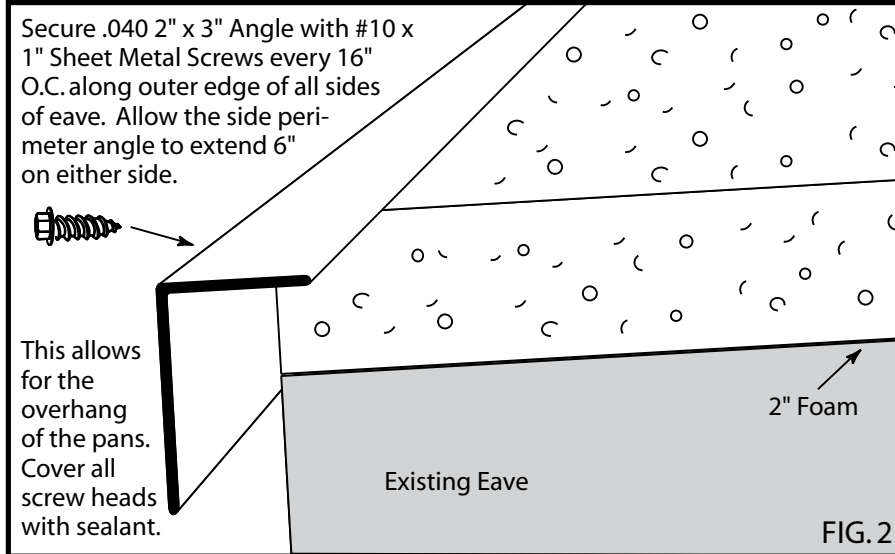
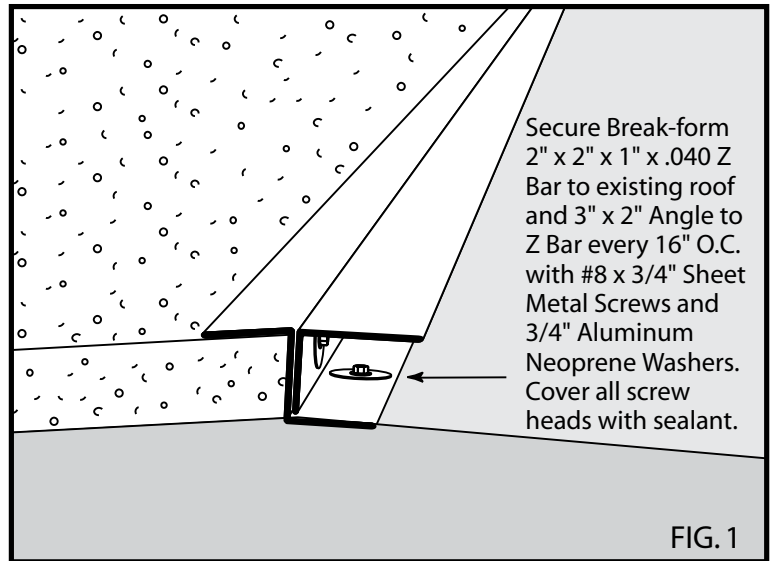
RISER FLAT PAN ROOF-OVER

INSTALLATION GUIDELINE

The entire Structall Riser Flat Pan Roof-Over System actually strengthens the original roof of the manufactured home. The styrofoam increases the energy performance of the roof and is protected by the aluminum pans. Structall's 1-1/2" Riser Pans are manufactured with .019" or .024" Aluminum, in widths of 12" and maximum lengths of 40'

RISER FLAT PAN ROOF-OVER INSTALLATION GUIDELINE

- [1] If the roof has a pitch, begin by securing Break-form 2" x 2" x 1" x .040 Z Bar to the existing roof and 3" x 2" Angle to the Z Bar every 16" on center with #8 x 3/4" Sheet Metal Screws and 3/4" Aluminum Neoprene Washers. Cover all screw heads with sealant. Slide the 2" styrofoam sheets into the Z Bar and Angle on both sides of roof. **[FIG 1]** Z Bar and Angle are not necessary for flat roofs. Cover entire roof with 2" x 4' sheets of styrofoam, foil side up. (Protective aluminum foil

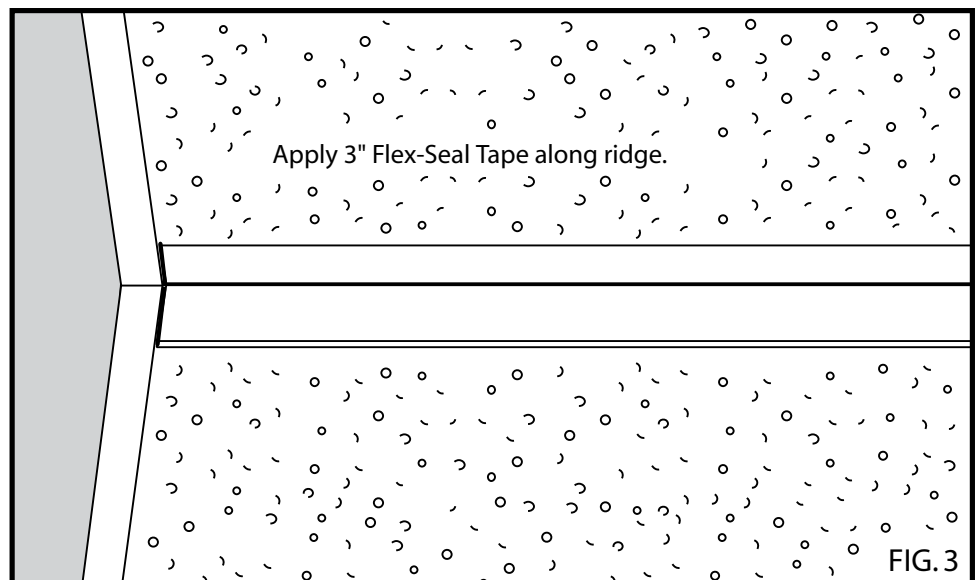


covering is optional.) The length of foam is placed along the eave, while the four foot dimension is placed towards the peak. If required, the last sheet on either side can be cut to fit. All joints should carefully be covered with 2" Foil Tape.

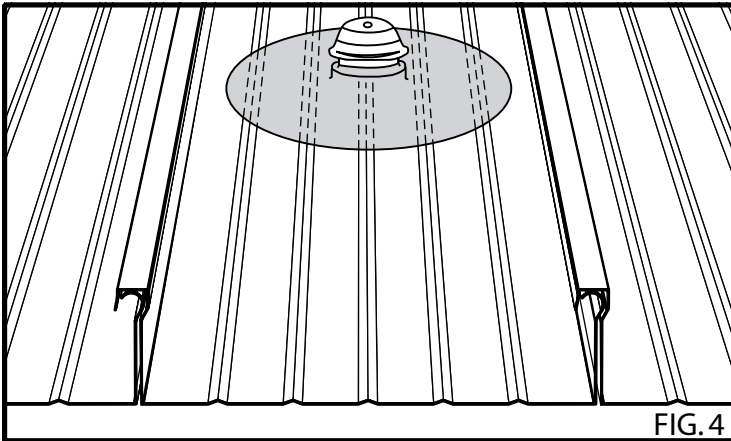
- [2] Install .040 2" x 3" Angle along outer edge of eave. Allow the side perimeter angle to extend 6" on

either side. This allows for the overhang of the pans. Secure along outer edge with #10 x 1" Sheet Metal Screws and 3/4" Aluminum Neoprene Washers every 16" on center. Cover all screw heads with sealant. **[FIG 2]**

- [3] Apply 3" Flex-Seal Tape along ridge, completely covering Z Bar and Angle. **[FIG 3]**

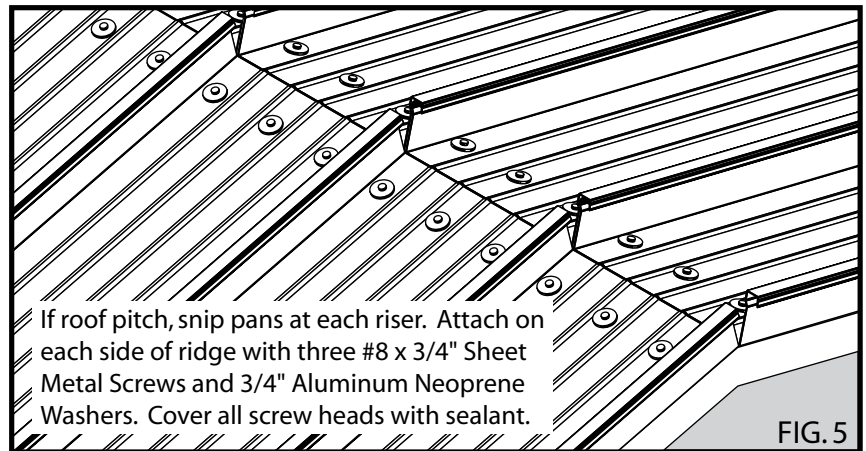


RISER FLAT PAN ROOF-OVER INSTALLATION GUIDELINE



[4] The majority of a Manufactured Home roof is smooth and flat. In the areas where vents and plumbing fixtures occur, shape the 2" styro-foam and aluminum pans to provide a smooth connection. Then 3" Flex-Seal Tape is applied to ensure that the entire assembly is a composite water proof cover of the existing manufactured home roof. **[FIG 4]**

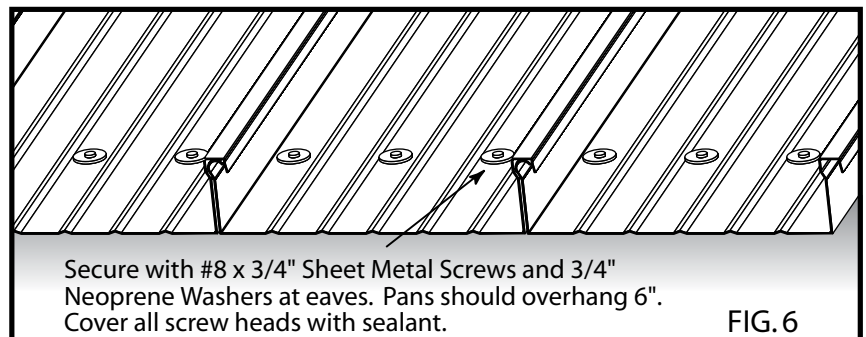
[5] When installing the pans, if your roof has a pitch, snip pans at each riser. This will allow the pans to lay flat. Attach each pan along both sides of ridge with three #8 x 3/4" Sheet Metal Screws and 3/4" Aluminum Neoprene Washers. **[FIG 5]** (Flat roofs will have screws and washers around perimeter only. See fig. 6.) Cover all screws with sealant.



If roof pitch, snip pans at each riser. Attach on each side of ridge with three #8 x 3/4" Sheet Metal Screws and 3/4" Aluminum Neoprene Washers. Cover all screw heads with sealant.

FIG. 5

[6] Secure each pan to Angle with three #8 x 3/4" Sheet Metal Screws and 3/4" Neoprene Washers at eaves. Pans should overhang 6". Cover all screw heads with sealant. **[FIG 6]**



Secure with #8 x 3/4" Sheet Metal Screws and 3/4" Neoprene Washers at eaves. Pans should overhang 6". Cover all screw heads with sealant.

FIG. 6

[7] Overlap pans at ridge 1-1/2" on either side with Flex-Seal Tape, if pans were snipped. Lay .032 x 15" Aluminum Ridge Cap over ridge. **[FIG 7]** Secure with #8 x 3/4" Sheet Metal Screws and 3/4" Aluminum Neoprene Washers at both edges of Ridge Cap every 12" at risers. Cover all screw heads with sealant. **[FIG 8]**

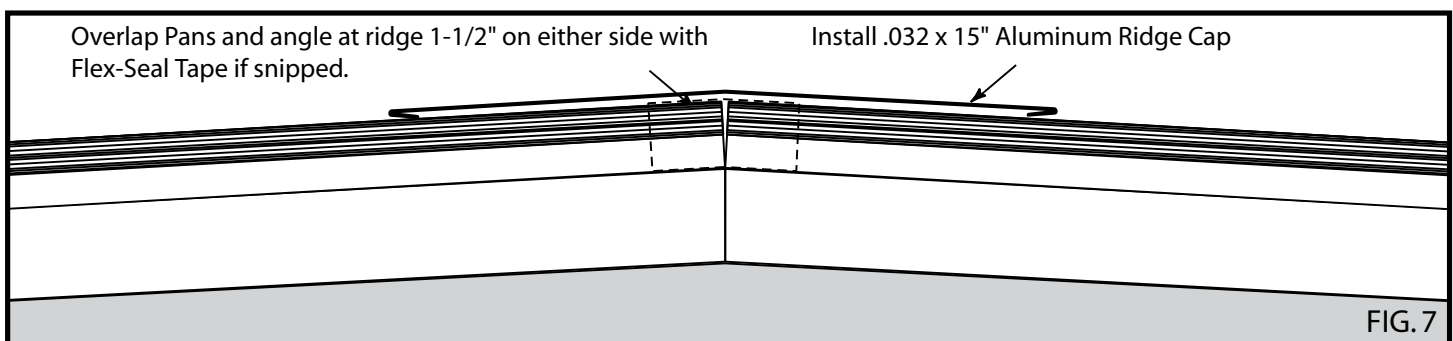
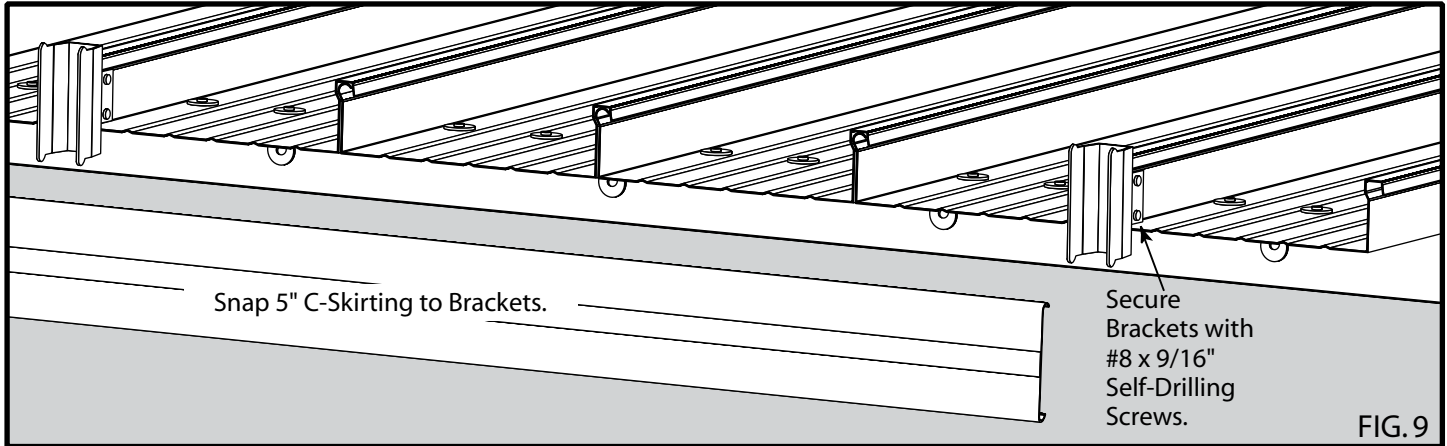
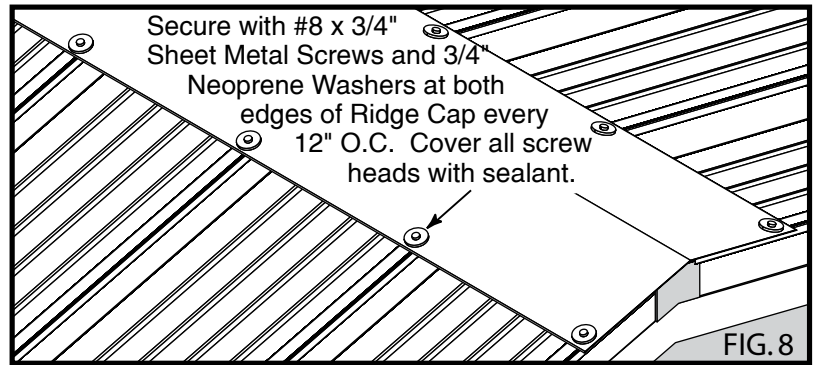


FIG. 7

RISER FLAT PAN ROOF-OVER INSTALLATION GUIDELINE

[8] The final step will be to install the brackets every 4' and secure with two #8 x 9/16" Self-Drilling Screws. Snap the 5" C-Skirting to Brackets and cut to fit at each end if necessary. The C-Skirting is available in 12' lengths. [FIG 9]



List of materials:

.019 or .024 1-1/2" Riser Pans, 2" thick x 4' wide plain or foil face styrofoam, 2" x 2" x 1" x .040 Break-form Z Bar, 2" x 3" x .040 Extruded or Break-form Angle, 5" C-Skirting, 5" C-Skirting Brackets, #10 x 1" Hex Washer Head Sheet Metal Screws, #8 x 3/4" Hex Washer Head Sheet Metal Screws with 3/4" Aluminum Neoprene Washers, #8 x 9/16" Self-Drilling Screws, 2" Galvanized Vent Caps, Caulking, Ridge Cap (*necessary for gable roofs, other roofs optional*), 2" Foil Tape (*recommended if using foil face foam*), 3" Flex-Seal Tape

Tools:

Snips, Caulk Gun, Cordless Drill, Ladder, Framing Square, 1/4" Driver for Drill