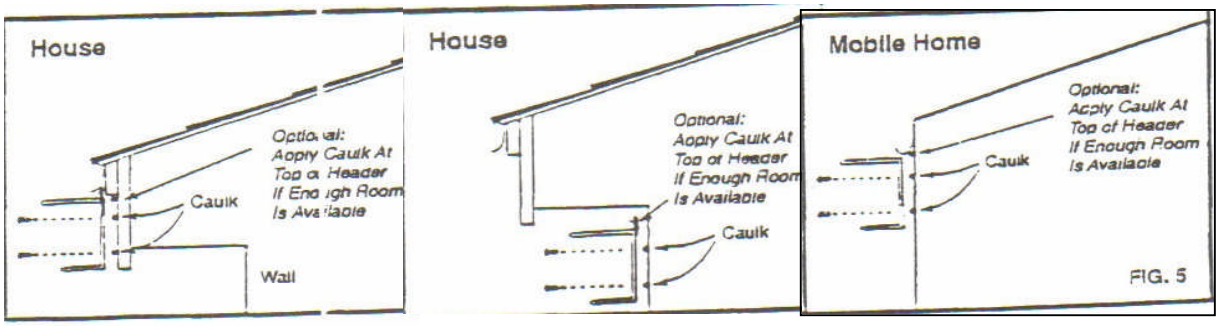
SUN HAVEN ALUMINUM PRODUCTS

INSULATED PATIO COVER

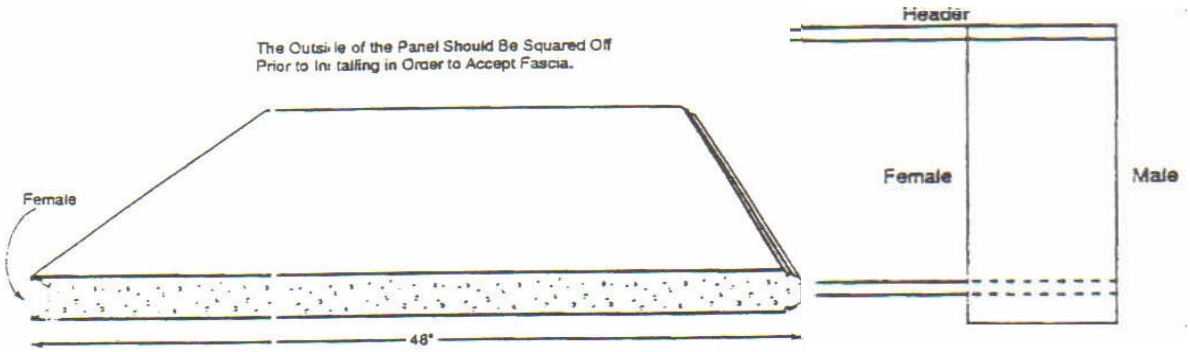
1) Make sure the frame-work is plumb and square prior to installing roof panels.

2) Run two beads of silicone caulking along the back surface of the F-Chanel where it will meet the existing building or fascia board. Extruded Channel is recommended for maximum strength.



3) Position the header against the existing building and secure into place using 3" lags every 24" on center. If attached to 1" fascia board use 2-#10x2" hex head screws in place of #10x1 1/2" screws at all rafter tails. If attached to a masonry wall, the header should be fastened with 1- 1/4" diameter masonry anchor every 18" on center. If enough room, apply a heavy bead of caulking along the top of the header to insure a water tight seal.

4) Place the first panel into position with the Male side facing the outward perimeter of the structure. Check the panel for proper depth in the header and square to support the walls.



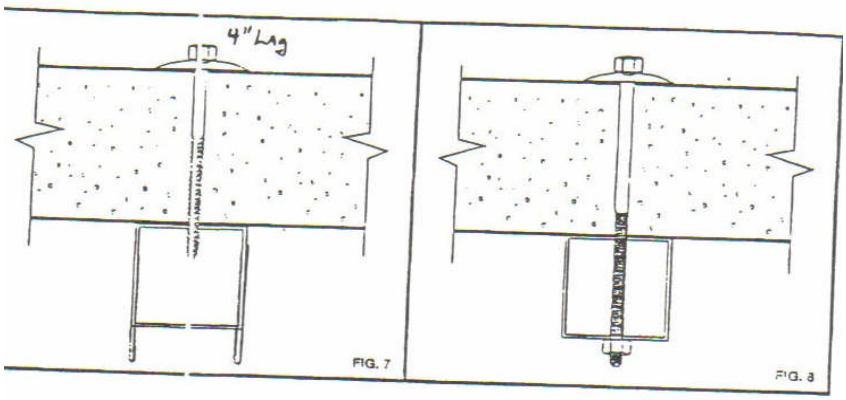
5) Fasten panel to the top and bottom of the F- Channel with #8 tec screws on the

center.

6) The 3" Patio Cover walls can be fastened in two ways. A support beam can be used for post installation.

Figure 7

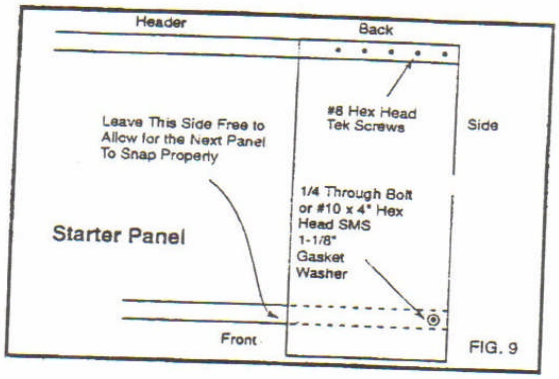
THE FIRST OPTION: is using a special #10x 4" hex head sheet metal screw available from Patton Aluminum. These should be placed 24" on center when securing panel to front suppor beam when using post or to the top of the wall when used in enclosure. The sheet metal screws should be used in conjunction with a 1- 1/8" neoprene gasket washer, also available from Patton. When going into wood framing a 1/2x 6" lag can be substituted.



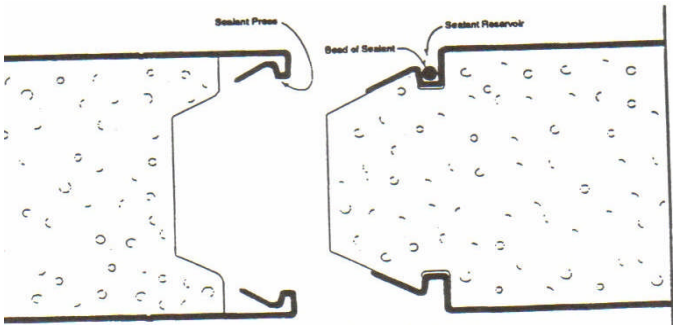
THE SECOND OPTION: is through bolting. Using an extra long 17/64 bit, drill a hole 8"from each edge of the starter panel as well as in the center. Slip a 1- 1/8" neoprene gasket washer on a 1/4" x5-1/2" machine bolt and pass through 17/64 hole from the top side of the panel/ Thread a 1/4" nut onto each bolt and draw up until a slight depression can be seen on the panel face. This option can only be used when the inside of the channel is exposed, such as a screen room.

7) Fasten the starter panel on the side wall and outside corner only.

NOTE: The panel must be on the Female edge to snap properly.

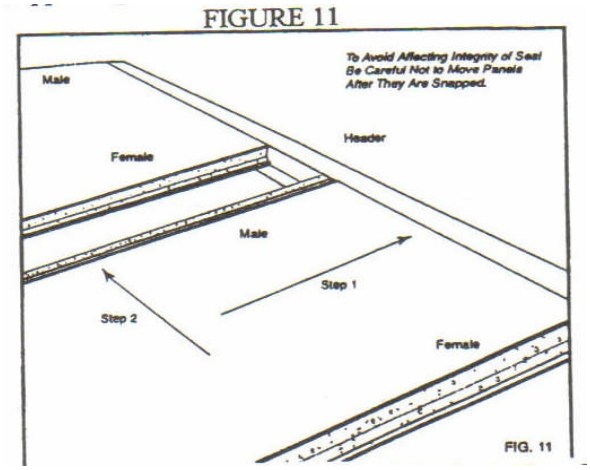


8) Run a bead of sealant/adhesive down the top channel of the Male side in the sealant reservoir. Make sure there are no air bubbles/pockets when applying sealant. A high quality sealant/adhesive will expand and contract better than acrylics or oil base caulk.



9) Insert the second panel into the header in a level position with the starter panel. Use cardboard or carpet pieces draped over the edge beam to protect panel against scratches.

10) Position panel. Use the form shipping bumpers as a buffer to push against. Bump panel together until it snaps, bumping from header to overhang. Panels should be snapped together fairly soon after caulking is applied to reservoir.



11) Repeat steps 9 & 10 with each new panel until finished. Then fasten remaining

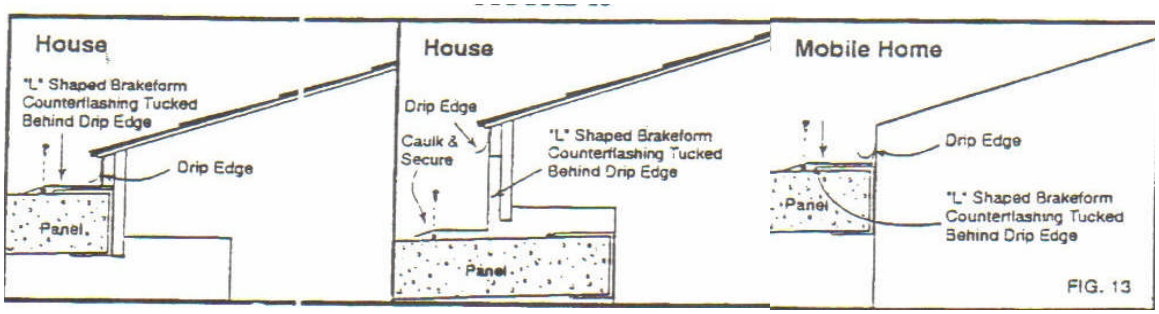
#10x4'' lags or beam or wall.
After all roof panels are installed run a bead od sealant where the top edge of the wall header meets the panel.

IMPORTANT NOTE: If walking on the panels, care should be taken in not stepping directly on the seams. This may affect the seal and no longer spans the deflection of the panel can distort the Snap N Lock profile to the point of showing a dent on the bottom side. When working on the panels, it is also suggested that a piece of foam is used to keel on to prevent denting.

12) RECEIVER/GUTTER INSTALLATION: Cut receiver/gutter and header extrusions to exact width of the roof. The valance fits to the outside of these extrusions. Run a heavy bead of sealant along the upper inside edge or receiving gutter. Slip the receiver/gutter over the end of the panels starting at one end and working the gutter down the width of the roof. Gutter applications can be done from the roof or from a ladder. A thin putty knife will facilitate application if the fit is tight. Using a #10 hex head tec screws at 12" intervals, secure the gutter to the roof. Seal edges with 3" or 4" Peel and Seal Sealant.

13) MATCHING SIDE FASCIA INSTALLATIONS: Cut fascia at appropriate angle to to allow slope of roof.

14) Due to advance design, it is almost impossible for the panel seams to leak. As in any aluminum roof structure the most critical point is where the header meets the support wall. For best results counterflashing should be used.



15) To insure a water tight seam, caulk under edge of counterflashing that rests of roof and secure with #8x 1/2" screw at 6" intervals. Peel & Seal tape can be used in addition to caulking.

16) Using Silicone Caulk, seal exposed screw and bolt heads. Make sure to completely cover the washers, because formed when tightening the panels down, water can sit around the washers and create a problem. Caulk top seams of panel and where the side

fascia & front gutter slide over panels.

17) CEILING FANS: For ceiling fan installation a beam can be used to secure heavy fans or lights, and can also act as a conduit for electrical wire. This method allows for a smooth surface and no condensation.