

### **SECTION 4.3 - VINYL RAIN ROOF INSTALLATION**

1. Erect walk-in per floor plan and in accordance with the instructions in this manual.
2. Hang all evaporators, lights, etc. before starting the installation of the vinyl rain roof. Keep bolt heads, washers as smooth, flat and free of debris as possible to avoid damage to the vinyl rain roof. If a door hood is provided, install as low as possible over the door opening (*Refer to Fig. 36*). Plan for all electrical conduits and refrigeration lines to enter through the wall panels (**NOT THROUGH THE CEILING PANELS**).
3. Check the width and length of the vinyl rain cover. It should be 12" wider and 12" longer than the overall size of the walk-in.
4. If the rain roof is designed to be sloped or pitched, tapered insulation is supplied to accomplish this (*Refer to Fig. 37*) Position the tapered insulation on top of the ceiling panels per supplied plan. Slip sheets may be provided and should be placed on top of the tapered insulation. Use the supplied fasteners to keep slip sheets flat. Fasten the slip sheets to the insulation, staggering the seams when possible and trim to fit.
5. With the smooth finish of the vinyl rain roof facing up and the 3" flaps down, make a mark 6" from the side and end of the vinyl rain roof to aid in allowing for a 6" overhang on each side of the walk-in (*Refer to Fig. 38*). Roll the vinyl rain roof back so that when the rain roof is unrolled, the tabs become exposed (*Refer to Fig. 39*).
6. After the vinyl rain roof is properly positioned, fasten to the ceiling panels with the supplied sheet metal screws and washers through the 3" tabs which have been pre-marked at the factory (*Refer to Fig. 40*). Start fastening the middle tab and work outward toward the edges. If tapered insulation has been installed on the ceiling panel for slope purposes, use the shorter screws until they no longer engage securely, then switch to the longer screws.
7. Once the first tab is attached, continue by unrolling the remaining vinyl rain roof and repeat step 6. If a door hood has been installed the vinyl rain roof may have to be customized to fit over the hood.
8. Repeat step 6 until the end of the vinyl rain roof has been reached. As you proceed check the 6" overhang on each side before attaching each tab to assure that all the slack has been removed and that you are progressing squarely.
9. Once the attachment of the vinyl rain roof has been completed, neatly fold the corners (*Refer to Fig. 41*). Next install the supplied metal edge trim around the perimeter using the supplied sheet metal screws spaced 12" apart (*Refer to Fig. 42*). **Do not screw into vertical panel or roof seams.** If a door hood has been installed the trim may need to be customized to fit over and adjacent to the door hood.
10. If one or more sides of the vinyl rain roof flashes up against a building wall, an inverted trim strip will be supplied for attachment (*Refer to Fig. 43*). Seal between the vinyl rain roof and building wall and between inverted trim and vinyl rain roof. Screw the trim into building wall. (counter flashing should be installed and supplied by others).
11. Penetrations cannot be made through the vinyl rain roof without voiding the warranty. If there is no alternative to a roof penetration, call American Panel Corporation for the name of a local approved contractor to come and make the penetrations. (There will be a charge for this.)
12. When pressure-treated 4" x 4" mounting curbs are provided for placement of the refrigeration condensing unit on top of the vinyl rain roof, the bottom side of the 4" x 4" curb have had strips of vinyl bonded to it with 2" extending on each side (*Refer to Fig. 44*). After the vinyl rain roof has been secured, place the curbs perpendicular to and within 2" of the edge (Check mounting centers of the condensing unit for proper spacing), this allows water to pass through, and places some of the weight of the condensing unit above the wall. Be careful to not place the curbs on top of any bolt heads supporting the evaporator. After the curbs are in place use the supplied adhesive to bond the 2" flap around the curb to the vinyl rain roof. Follow the instructions on the adhesive container.