

Extended (Full Perimeter) Roof Curb Assembly Instructions

These roof curb assembly instructions are to be used as general guidelines only. Included with shipment are as built drawings for proper location of sections and channels. Use as built drawings to identify and locate match marked sections (1&1, A&A, etc..)

If curbs will not be installed and roofed in upon receipt, it is recommended that curbs should be stored level and adequately supported to avoid damage and, in a clean, dry location to avoid possible corrosion problems associated with extended contact with the ground.

If the roof curb will be mounted on a **new building**, it can be assembled at any convenient location and installed as soon as the roof support members are in place. As a general rule, the curb should be placed directly on the roof support members, use tack welding (or other equivalent fastening method) to secure the curb in place.

As an alternative, the roof curb can also be mounted on a roof deck. When a deck is used, be sure to provide additional blocking directly below the curb flanges to give further support and minimize vibration. (See below)

When curb installation is on an **existing building**, hoist the curb shipping carton(s) directly to the roof. Curb assembly is more conveniently completed at this location.

Assembling Roof Curb

1. Select an area conveniently located near the unit installation sight and open the curb shipping carton(s). Verify that all materials, factory and field supplies are on hand.
2. Assemble curb components 1,2,3,4 & 5 to form the supply side of the curb (Parts 5 are 1 1/4" down from the top of the roof curb and part 4 is flush with top of roof curb). Bolts required for curb assembly are provided loose in the hardware carton or are already bolted into the curb.

Note: Do not tighten any of the bolts used to assemble the curb until after the curb is installed, leveled and squared.

3. Condenser Drain Pan Assembly (Item 11) (See condenser drain pan detail):

1. Place support channels on tabs to support pans.

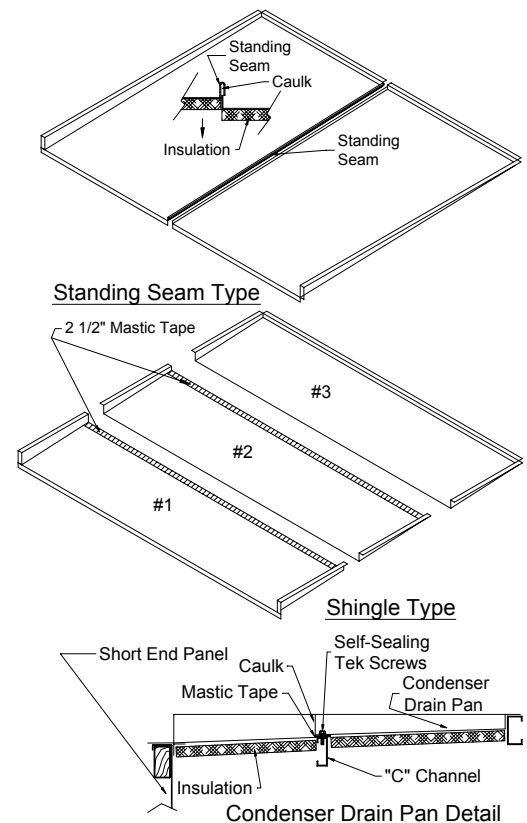
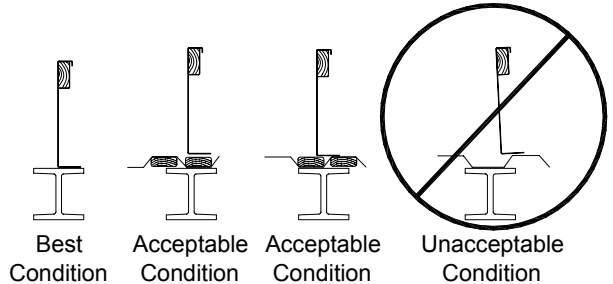
Standing Seam Type

2. Set first pan with male lock on the condenser end of curb and the support channel.
3. Fill female side of seam with caulk and install over male seam.
4. Button punch standing seams every 8" o.c.
5. Repeat these steps as necessary for additional pans.

Shingle Type

2. Remove protective backing from 2 1/2" mastic tape at condenser end.
3. Begin with panel #1 and lay panels in place ending with panel #3. Do not secure until all panels are in place and in the right locations.
4. Secure all panels around perimeter and across midsections with self-drilling rubber washer screws 3" o.c. Traxx 2).
5. Caulk all corners and seams with urethane caulk.

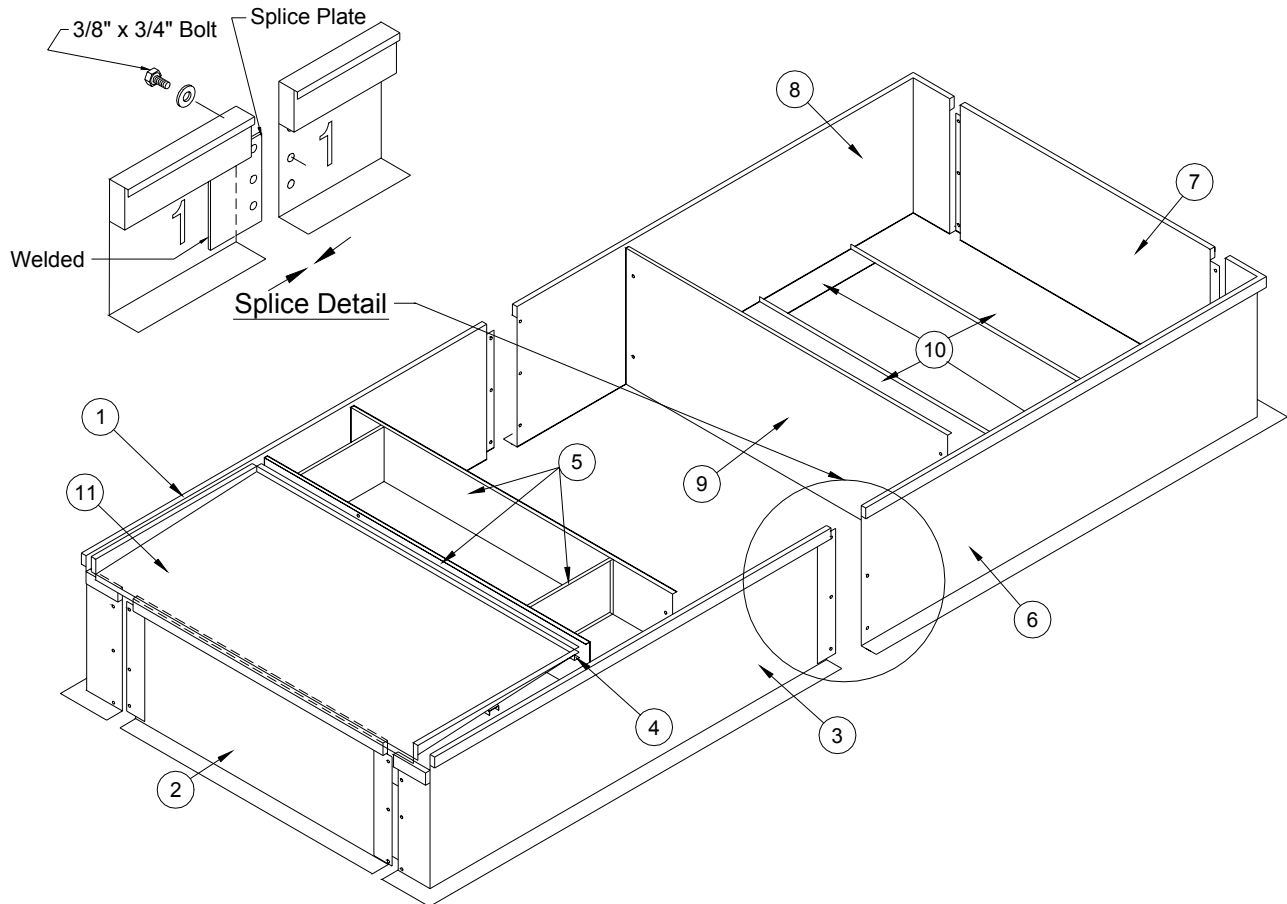
4. Assemble curb components 6,7,8 & 9 to form the return side of the curb. (Part 9 is 1 1/4" down from top of roof curb.) Then bolt the supply half to the return half. Verify that the



curb is properly assembled by checking its overall dimensions against the appropriate curb assembly drawing. After curb is leveled and squared, all bolts may be tightened.

5. Install the return air filler panels (item 10) at the bottom of the curb. Lay the filler panels flat, standing seam up, on the existing roof decking. Caulk all seams and fasten with Tek screws.
6. Apply 1/4" thick adhesive backed gasketing to the entire perimeter of the top of roof curb and all supply & return channels flush with top, **use 2 layers of 3/4" thick gasket on all duct channels held down 1 1/4" from top of curb.** (Items 5 & 9).

Recommended installation includes fastening base flange to roof steel or deck with stitch weld or mechanical fastener not exceeding 18" O.C. as per NRCA specifications.



Note: These instructions are meant as a general guide only. Some variations may occur, refer to as built drawings before proceeding.