

Assembly Instructions for Horizontal Roof Curbs

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 Horizontal Curbs

1. Select an area conveniently located near the unit installation sight, and open the curb kit shipping carton'(s). Verify that all materials, factory and field supplied, are on hand.
2. Arrange the curb rail sections as shown
3. Assemble curb components 2,3,4 & 7 to form the supply side of the curb. Bolts required for curb assembly are ship 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.

4. Install the 3 insulated supply floor panels (item 9) at the bottom of the curb. Lay the floor panels flat; insulation side UP on the existing roof decking; see Detail "A". Make sure that the 1" flange on each floor panels is against the curbing; see Detail "B" Bolt, weld or button punch each floor panels into place, then caulk the outside edges of the floor panels with high-pressure duct sealer (field supplied). Floor panels must be supported.
5. Assemble curb components 2,5,6 & 8 to form the return side of the 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.

For Horizontal Supply & Return Curb

6. Install the return air floor panels (item 10) at the bottom of the curb. Lay the floor panels flat with standing seam UP on the existing roof decking. Installation is similar to supply floor panel installation.

For Horizontal Supply & Vertical Return Curb

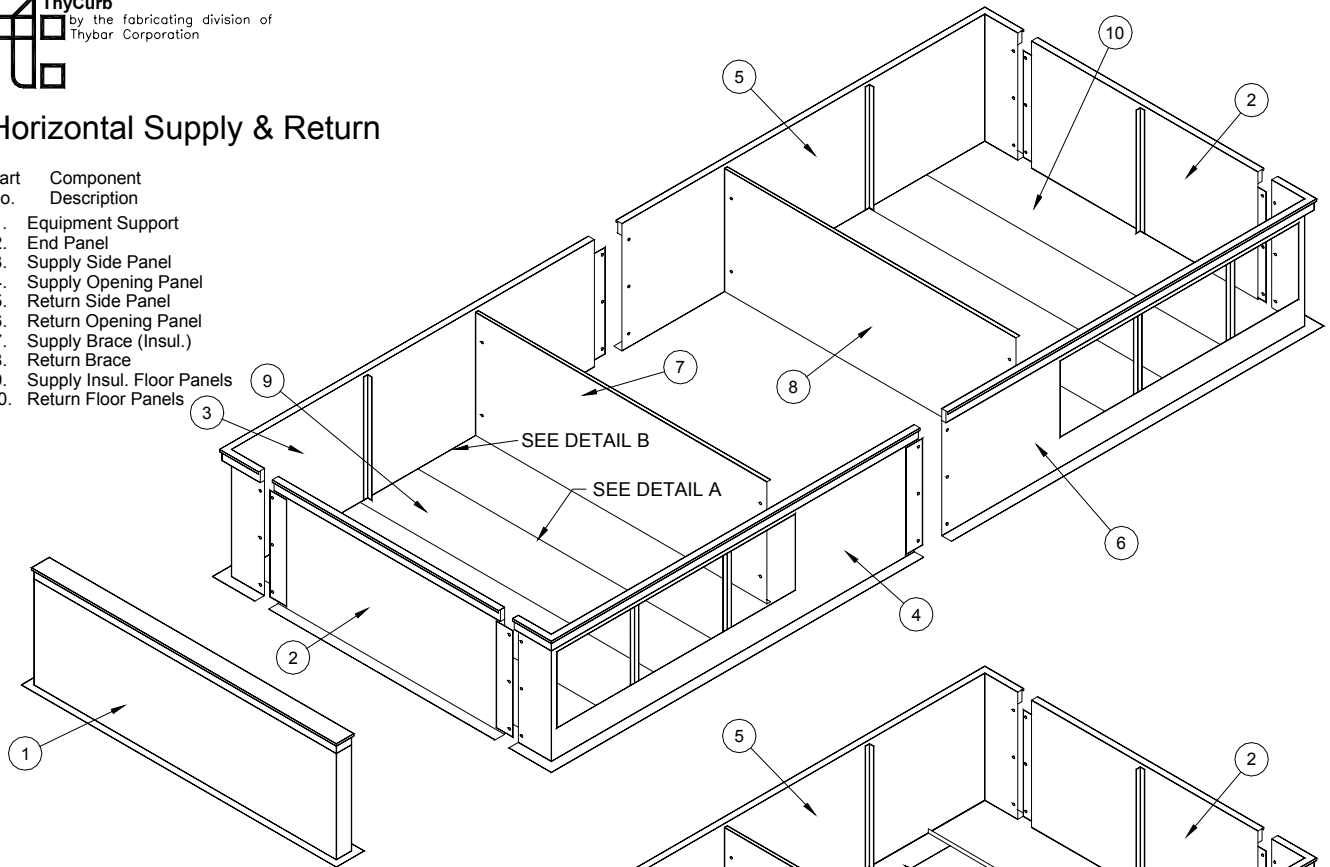
6. Install the return air filler panels (item 10) at the bottom of the curb. Lay the filler panels flat, standing seam up, on the existing roof decking. Caulk all seams and fasten with Tek screws.
7. Apply ¼" thick adhesive backed gasketing to the entire perimeter of the top of roof curb and all supply & return channels flush with top, **use 2 layers of ¾" thick gasket on all duct channels held down 1 ¼" from top of curb.** (Items 7 & 8)

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.

Horizontal Supply & Return

- | Part No. | Component Description |
|----------|----------------------------|
| 1. | Equipment Support |
| 2. | End Panel |
| 3. | Supply Side Panel |
| 4. | Supply Opening Panel |
| 5. | Return Side Panel |
| 6. | Return Opening Panel |
| 7. | Supply Brace (Insul.) |
| 8. | Return Brace |
| 9. | Supply Insul. Floor Panels |
| 10. | Return Floor Panels |



Horizontal Supply \ Vertical Return

- | Part No. | Component Description |
|----------|----------------------------|
| 1. | Equipment Support |
| 2. | End Panel |
| 3. | Supply Side Panel |
| 4. | Supply Opening Panel |
| 5. | Return Left Panel |
| 6. | Return Right Panel |
| 7. | Supply Brace (Insul.) |
| 8. | Return Brace |
| 9. | Supply Insul. Floor Panels |

