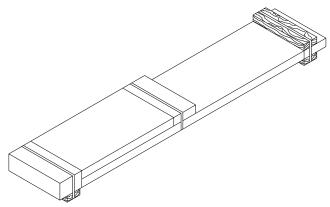
INSTALLATION INSTRUCTIONS FOR ZF/ZJ/ZR/ZY/XP 036-072 UNITS WIND LOAD "HINGE" ROOF CURB

This Roof Curb is NRCA approved and is constructed of 14 gauge galvanized steel with a full perimeter 2" x 4" wood nailer strip. The curb is designed to be used with the Cooling, Gas Electric, and Heat Pump Models. The curb is shipped with the following parts, as shown in Figure 2:

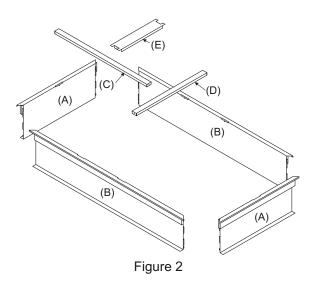
- 1) 2 ea. Curb Short Sides 37 ¹/₄" Long (A)
- 2) 2 ea. Curb Long Sides 73" Long (B)
- 3) 1 ea. Horizontal Duct Support 43 5/8" Long (C)
- 4) 1 ea. Vertical Duct Support 33 ³/₈" Long (D)
 5) 1 ea. Vertical Duct Support 19 ⁵/₈" Long (E)
- 6) 1 ea. Hardware Package Includes:
 - 4 ea. "Hinge" Pins 8 ea. Hex Washers screws #10 x 1/2"
- 7) 2 ea. Gasket ³/₄" x 1 ¹/₄" x 14' (28 ft. total)





Step 1:

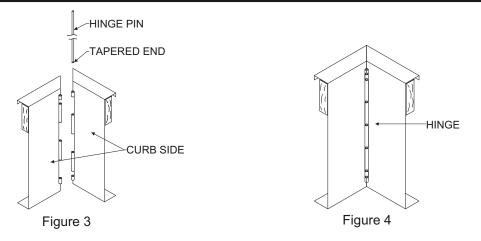
Curb Package is shown as shipped with easy to identify part numbers on all sides. Cut shipping bands and remove Hardware, Gasketting, and 3 Duct Supports.



Step 2: Layout the curb pieces before assembly to insure that all the necessary pieces are included.

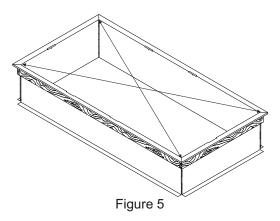
U.S. PATENT 5148647

INSTALLATION INSTRUCTIONS FOR ZF/ZJ/ZR/ZY/XP 036-072 UNITS WIND LOAD "HINGE" ROOF CURB



Step 3:

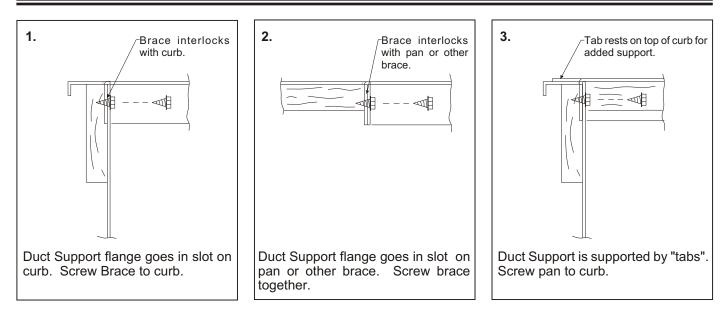
Corner Assembly: Align each curb side as shown in Figure 3. Using a hammer, drive the curb "hinge" pin down until the top of the pin is below the top of the curb as shown in Figure 4.



Step 4:

After the four corners are assembled; the curb should be checked to be sure it is in "square". Do this by measuring diagonally from each opposite corner as shown in Figure 5. The two measurements should be the same for each direction.

DETAILS



INSTALLATION INSTRUCTIONS FOR ZF/ZJ/ZR/ZY/XP 036-072 UNITS WIND LOAD "HINGE" ROOF CURB

Note:

Duct Supports can be located on either end depending on individual applications.

Step 5:

Install the vertical duct support (D) as shown in Figure 6 with opening over the desired duct location.

Step 6:

Install the horizontal duct support (C) as shown in Figure 6.

Step 7:

Install the vertical duct support (E) as shown in Figure 6.

Step 8:

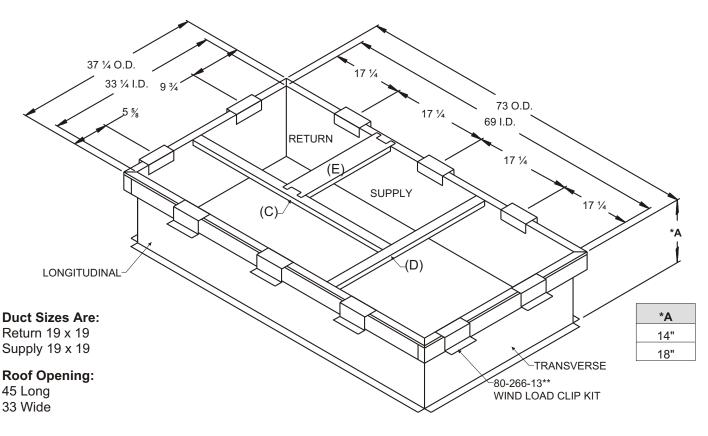
If the curb is being assembled and moved to another location, attach the duct supports as shown in "Details".

Step 9:

Place the $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " Gasket on all of the top edges of the Roof Curb, including the duct supports.

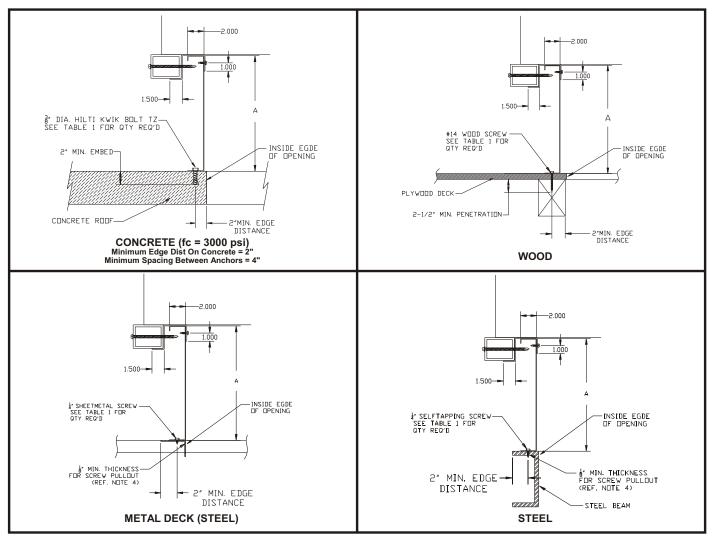
Step 10:

If using wind load clip use Figure 6 for placement in roof curb. See Details on back page for securing clips to curb and curb to roof.



INSTALLATION INSTRUCTIONS FOR ZF/ZJ/ZR/ZY/XP 036-072 UNITS WIND LOAD "HINGE" ROOF CURB

Roof Curb Attachment Detail



Seismic Restraints & Curb Design Criteria

- 1. The curb design has been reviewed for the ZF/ZJ/ZR/ZY/XP 036-072 for a wind load of 100 PSF per the requirements of the 2007 FBC including the 1.5 overturning moment factor. To determine if this loading adequate for the actual site conditions consult the structural drawing notes for roof wind pressure notes in the structural drawings package. If this information is not available please consult engineering for guidance.
- 2. Cold-formed curb framing members shall conform to the material and identification requirements of the latest "Specifications for the Design of Cold-Formed Steel Structural Members" of the American Iron and Steel Institute with a minimum Fy = 33 ksi and a minimum Fu = 38 ksi.
- 3. This review and approval for the requirements of the FBC is limited to Model# 80-265-13**PV.
- 4. When installing curbs on a metal roof deck, attachment screws must enter bar joists or other structure with a minimum thickness of $\frac{1}{6}$ ". If curb cannot be placed under the roof deck additional support framing must be placed over the roof meatal with a minimum metal thickness of $\frac{1}{6}$ ". The additional support and its anchors shall be designed by an engineer qualified in the installation jursdiction.

Wind Load Kit Model#	Curb Height (A)	Internal Curb Dimensions		Matarial	Fasteners	No. of Fasteners on Each Side of Curb	
		Length	Width	Material	Spacing	Long Side	Short Side
80-266-13**	14" or 18"	69.00	33.25	Wood	4.5"	16	8
				Concrete	10"	7	4
				Steel	7"	10	5