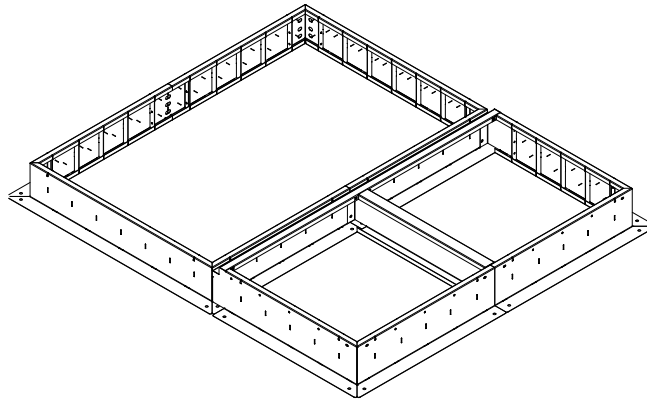


**Vektor™ ERS-MD Fan Plenum Curb Assembly Instructions**

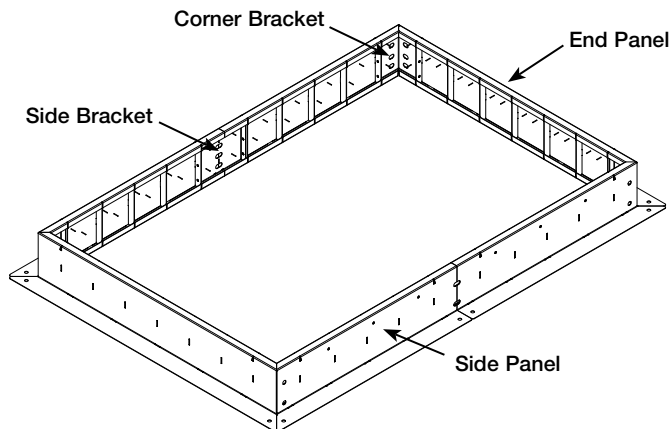


Greenheck VK-ERS curb is shipped in sections for field assembly. All required hardware is provided. Attachment to roof or structural members and building weather protection by others.

**Curb Section Parts List**

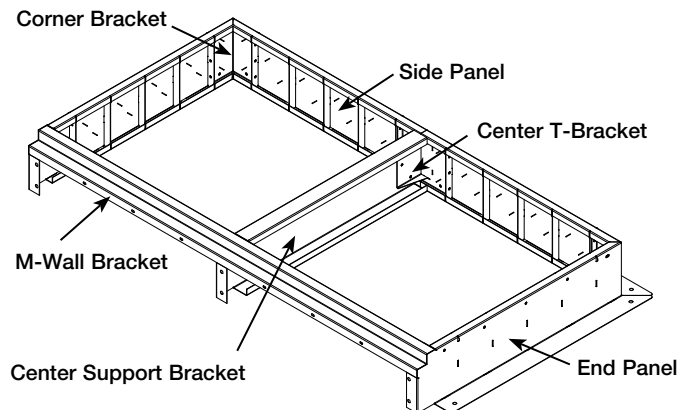
**ERS Plenum Section**

Description	Quantity
End Panel	2
Corner Bracket	4
Side Panel	4
Side Bracket	2



**Fan Bypass Air Plenum (BAP) Section\***

Description	Number of Fans	Quantity
End Panel		2
Corner Bracket		4
Side Panel	one fan two fans three fans	1 2 3
Center T-Bracket	one fan two fans three fans	0 1 2
M-Wall Bracket	one fan two fans three fans	1 2 2
Center Support Bracket	one fan two fans three fans	0 1 2



**NOTE**  
Shipping with these assembly instructions are parts and subassembly drawings which provide dimensions and quantities required.

\*Image shown is a representative drawing. Actual curb for bypass air plenum section may have additional pieces, depending on quantity of fans. Image is for a two fan system.

## NOTE

The side and end panels, and corner brackets between the two sections are differentiated from each other by the overall height. The panels and brackets are 1-1/2 inches (38mm) higher for the bypass air plenum section than ERS plenum section.

## Hardware and Miscellaneous Items

- 5/16 x 1-1/2 316 SS bolt, lock and flat washer assemblies
- 1/2 x 1-1/2 316 SS bolt, 1/2 flat (qty 2) washer, 3/4 flat (qty 2) washer, lock washer and nut assemblies
- 5/16 x 1-inch moly coat 316 SS bolts, rubberized washer and lock washer assemblies
- Caulk
- Foam insulation
- Insulation clips

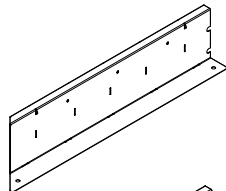
## Assembly Instructions for ERS Plenum Curb

Curb for the ERS plenum consists of four sides with the fourth side support against the Vektor fan bypass air plenum.

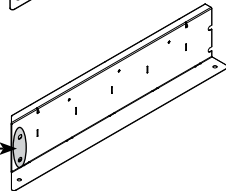
### Side Panel(s) Assembly

Examine the four side panel pieces. Two panels have additional bolt holes at the corner end. Only matching side panels are to be secured together. **Location of holes depends on size and quantities of fans for this system.**

ERS Side Panel without additional corner holes



ERS Side Panel with additional corner holes



With two matching side panel pieces, set in an upright position resting on roof flashing. Butt flat edges of side panels together with mitered edge towards outside. Take one side bracket and slide into each side panel. Secure the pieces together using the 1-inch moly coat SS bolt assemblies. Bolts are to be tightened into the nut zerks. The insulation in all of the brackets (side, corner and center T-bracket) has not been fully secured so that it can be removed to make fastening the moly coat bolt assemblies easier. After tightening bolts, and replacing insulation if it was removed, secure insulation in place using the insulation clips.

Take the two remaining matching side panels and connect using same procedure.

### End Panel to Side Panel(s) Assembly

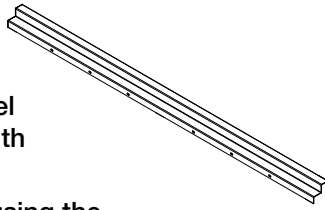
With side panel assembly complete, take either end panel and set in an upright position, resting on roof flashing, with mitered edge butted up against side panel assembly corner miter. Take one corner bracket and insert into side panel. Then insert into the end panel. Secure to each panel piece using 1-inch moly coat SS bolt assemblies and same method as used in attaching the side brackets as before.

Repeat the procedure connecting remaining end panel to the assembly using remaining corner brackets and fastener assemblies.

# Assembly Instructions for Vektor Fan Bypass Air Plenum (BAP) Curb

## M-Wall to ERS Plenum Curb Section

To the ERS plenum side panel assembly with extra holes, align M-wall bracket to be centered on side panel assembly and orientated with flat side of the bracket up.



Attach the M-wall bracket using the 5/16 x 1-inch moly coat 316 SS bolt assemblies. *May be more than one piece.*

## End Panel(s) Attachment

The end panels for Vektor fan BAP curb section each have one flanged edge. The flanged edge is secured to the ERS plenum curb section utilizing the additional bolt holes located in the side panels. Set end panel piece in upright position, resting on roof flashing and the flanged edge flush to the ERS side panel. Align the holes between the side panel and the flange. Attach using the 1/2 x 1-1/2 316 SS bolt and washers.

Repeat the procedure connecting remaining end panel to other side panel or ERS curb assembly.

## Center Support Attachment

The center support has one flanged edge. The flanged edge is to be secured to the M-wall bracket and ERS plenum side panel. Set center support in upright position, resting on roof flashing and flush ERS plenum curb side panel and M-wall bracket. Align the holes between the side panel and the flange. Attach using the 1/2 x 1-1/2 316 SS bolt and washers and a 5/16 x 1-inch moly coat bolt assembly to the M-wall bracket.

## Center T-Bracket to Center Support Panel

Vektor fan BAP center T-bracket is to be connected to center support panel. This will only fit in one orientation. Place center T-bracket into position and secure with 1-inch moly coat SS bolt assemblies and use the same method as used in attaching the other side and corner brackets.

## Side Panel(s) Connection

After center T-bracket and end panels have been secured, the side panels can be installed. Only one end of each side panel is able to be secured to the center T-bracket and the other only to the corner joint with the end panels. Take either side panel and set into upright position, resting on roof flashing and between T-bracket flange and end panel's corner. Use 5/16 x 1-inch moly coat bolt fastener assemblies and secure side panel into position.

Repeat the procedure in connecting remaining side panel to T-bracket and end panel.

## Caulking

Apply the caulk to help seal any joints between the curb panels.

## Foam Insulation Tape

Provided foam insulation tape is to be applied to the top surface of all roof curb panels. Foam insulation is to be applied prior to setting the ERS plenum and Vektor fan BAP. (Foam insulation for the BAP is shipped with the BAP). Care should be taken to apply the foam insulation so that there are no gaps or spaces between pieces.

## Vektor Fan Bypass Air Plenum Attachment

The 5/16 x 1-1/2 316 SS bolt assemblies provided in the panels of the Vektor fan BAP section are for mounting the BAP to the curb. Assemblies will need to be removed prior to setting the fan BAP onto the curb. Refer to the Vektor-ERS Installation, Operation and Maintenance Manual for the procedure on how the plenum sections are to be mounted to the ERS roof curb.

### NOTE

Relative orientation of assembled curb to the standard duct connection locations for the plenum mounting on the roof curb.

