

**LARMFH 18/36 HORIZONTAL DISCHARGE  
ROOF MOUNTING FRAME**

**INSTALLATION INSTRUCTIONS FOR "LARMFH" ROOF MOUNTING FRAME USED IN HORIZONTAL FLOW  
APPLICATIONS ON "L" SERIES 15 THROUGH 30 TON ROOFTOP UNITS**

**FRAME PARTS IDENTIFICATION**

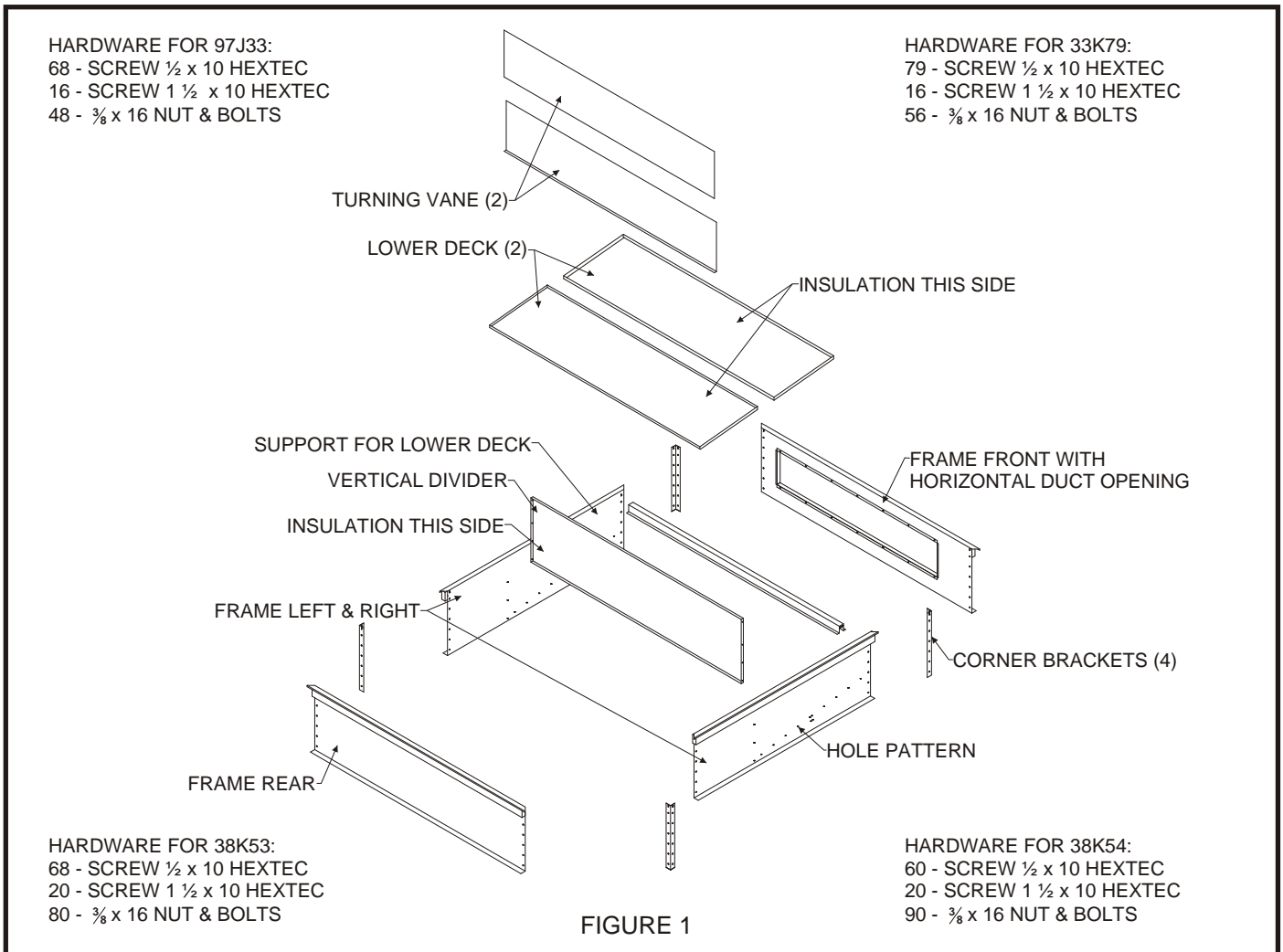
See Figure 1 for parts identification.

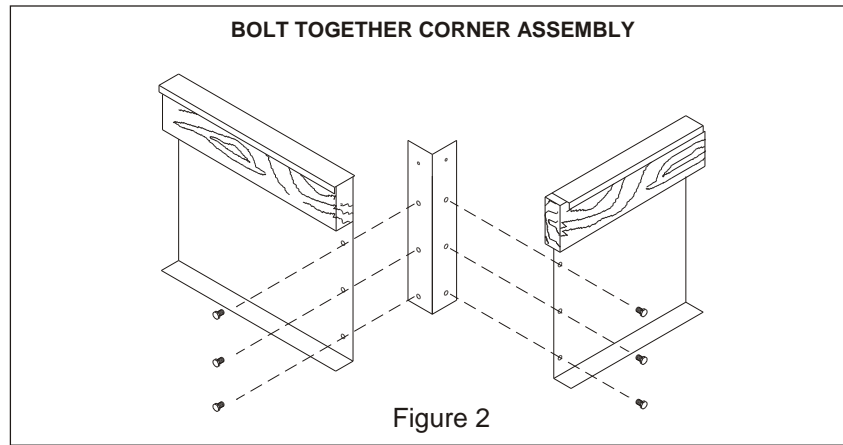
**APPLICATION**

The LARMFH 18/36 roof mounting frame provides support when an "L" series 15 through 30 ton unit is installed in horizontal slab or rooftop applications.

The LARMFH mounting frame can be installed directly on deck having adequate structural strength or on roof supports under deck.

**NOTE** - Frame assembly must be installed level within  $\frac{1}{16}$ " per linear foot in any direction.





Bolt Together Corner Assembly: Take the corner brackets and the hardware and fasten all four (4) corners together (Figure 2). **Note: DO NOT** tighten the bolts until all four (4) corners are assembled.

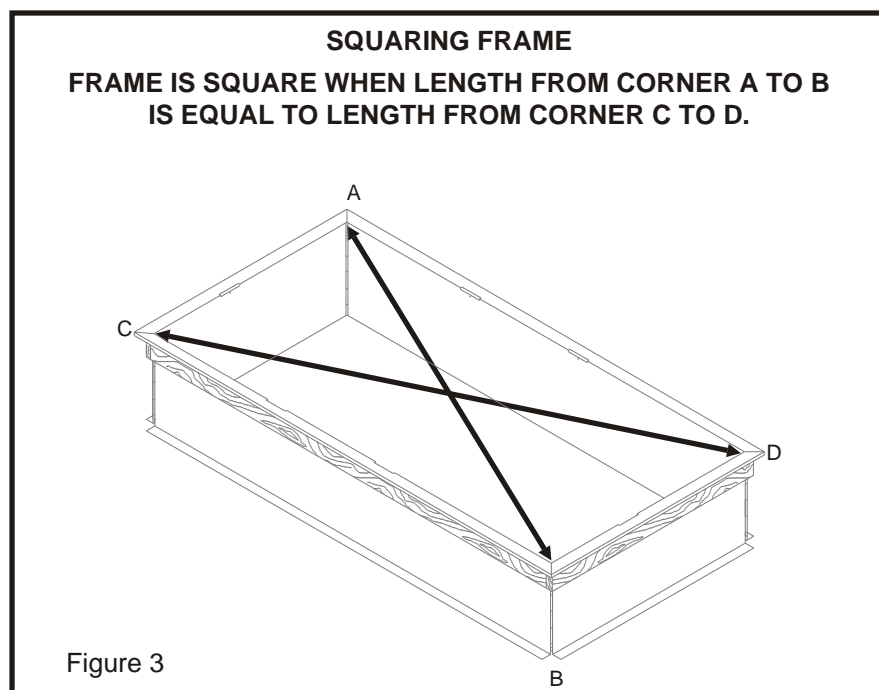
**NOTE** - Be sure hole pattern in the right and left frames point toward front of frame (Figure 1).

## SECURING FRAME

To assure proper mating with units, it is mandatory the mounting frame be squared to roof structure as follows:

1. With frame situated level in desired location on roof trusses, tack weld (1) corner of frame.
2. Measure frame diagonally from corner to corner as shown in Figure 3. These dimensions must be equal for frame to be square.
3. It is extremely important to sight frame from all corners to make certain frame is not twisted across top side. Shim frame under any low sides. Maximum slope tolerance is  $\frac{1}{16}$ " per linear foot in any direction.
4. After frame has been squared, straightened and shimmed, weld or attach frame securely to roof deck.

**NOTE** - Securely fasten roof frame to concrete slab or roof per local codes.



**Step 1:**  
Install the vertical divider as shown with insulation facing frame (rear) (Figure 4).

**Step 2:**  
Install the support for lower deck, should be aligned with prepunched holes.

**Step 3:**  
Install and secure outside perimeter only of the lower deck part (1) and then lower deck part (2). Support should be directly under seam of lower deck part (1) and (2).

**Step 4:**  
Take both turning van parts and screw flat piece to piece with bend, vane should measure 38" wide.

**Step 5:**  
Place 90° 1" flange of turning vane between lower deck parts 1 and 2 with vane pushed toward divider then secure all 3 parts along seam.

**Step 6:**  
Take top of turning vane and push flush with top of divider and secure.

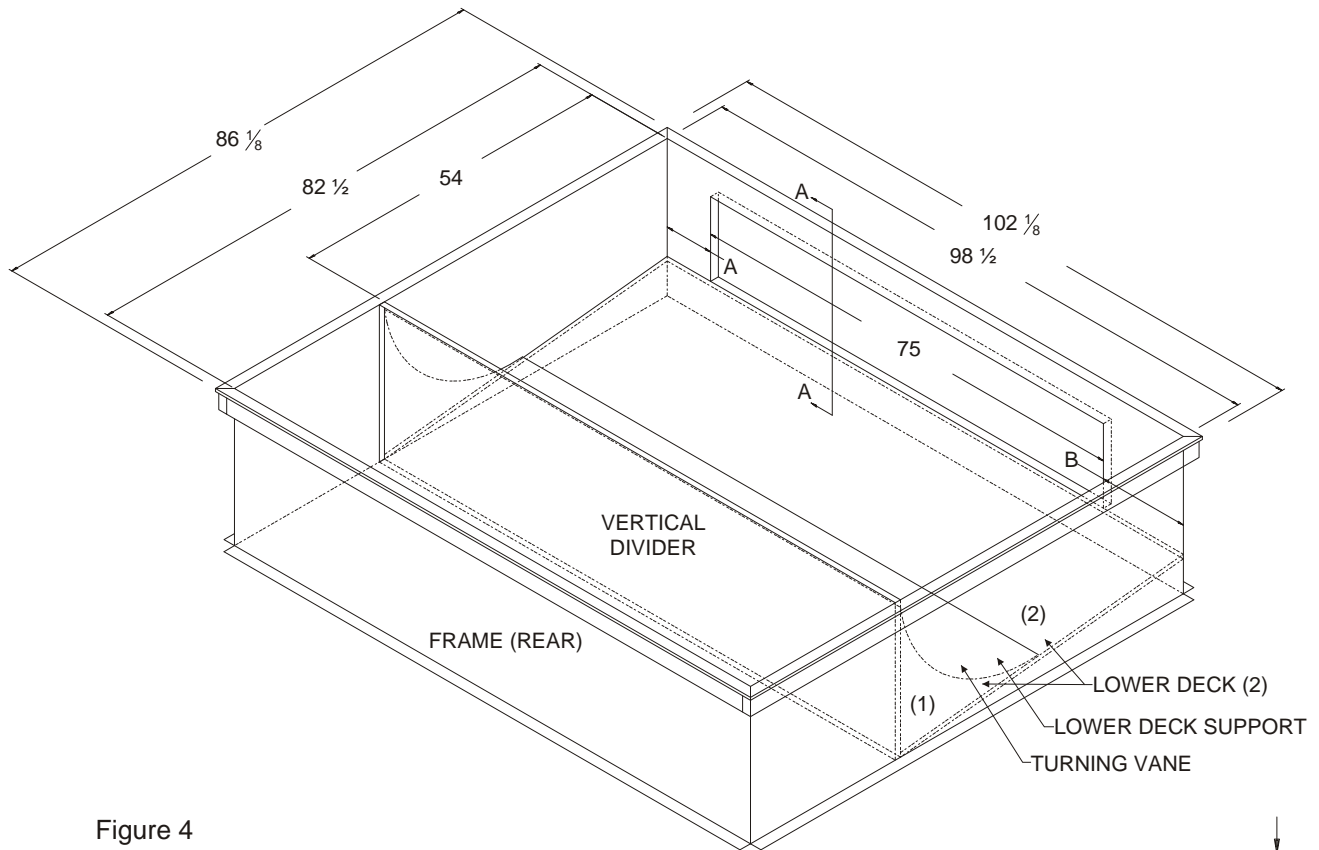
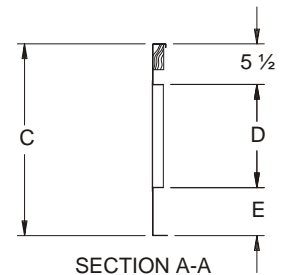


Figure 4

CAT#	LARMFH	A	B	C	D	E
97J33	18/24-26	8 ¼	15 ¼	26	14	6 ½
38K53	18/24-37			37		17 ½
33K79	30/36-30	13 ¼	10 ¼	30	18	6 ½
38K54	30/36-41			41		17 ½



## CURBING AND FLASHING

1. Outside of frame should be insulated with rigid type insulation, preferably 2" (51mm) thick. Do not use combustible material for filling around frame.
2. Counter-flash and seal around frame as shown in Figure 5.

**IMPORTANT** - If a poured roof is used, such as concrete, be sure inside of mounting frame is adequately braced to ensure a square and level frame.

## MISCELLANEOUS

1. Where pipes and electrical conduit extend through roof, flashing must conform to National Roofing Contractors Association (NRCA) standards.
2. Roof walkways should be provided around equipment to facilitate servicing.

## ROOF INSTRUCTIONS

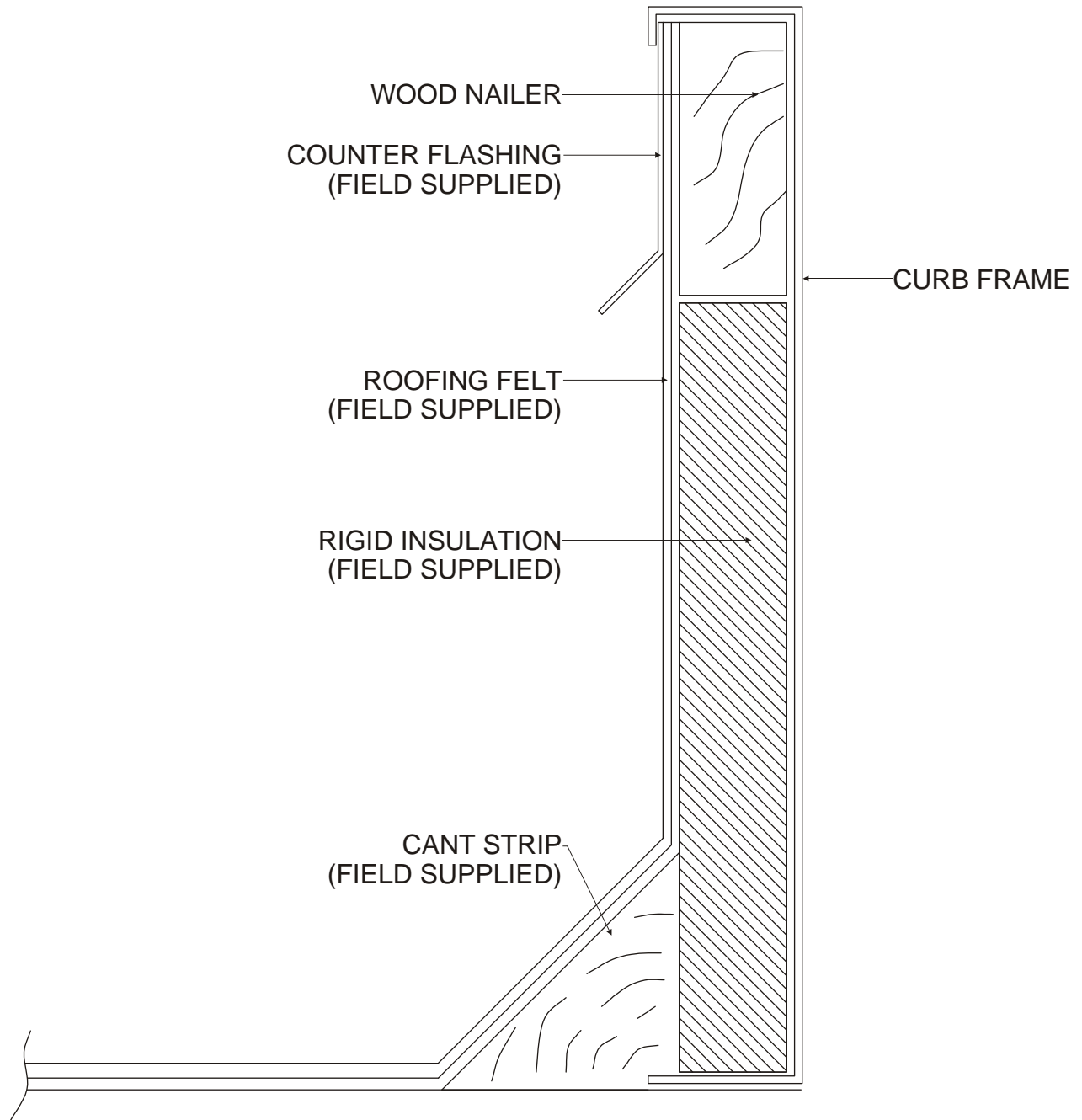


Figure 5