

INSTALLATION INSTRUCTIONS FOR C1CURB10B-1 ROOF MOUNTING FRAME (54W43; 604036) USED ON LGH/LCH/KGA/KCA/KHA092-150 UNITS

Frame Parts Identification

See figure 1 for parts identification.

Application

The C1CURB10B-1 roof mounting frame provides support when LGH/LCH/KGA/KCA/KHA092, 102, 120, & 150 (7-1/2, 8-1/2, 10, & 12-1/2 ton or B Box) units are installed in downflow rooftop applications.

The C1CURB10 is 14" in height.

The C1CURB10 mounting frame can be installed directly on deck having adequate structural strength or on roof

supports under deck. See figure 2 for frame dimensions when hanging ductwork. Figure 3 shows supply and return air openings when LASRT is installed. See figure 4 for service clearance dimensions.

NOTE-Frame assembly must be installed level within 1/16" per linear foot in any direction.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier

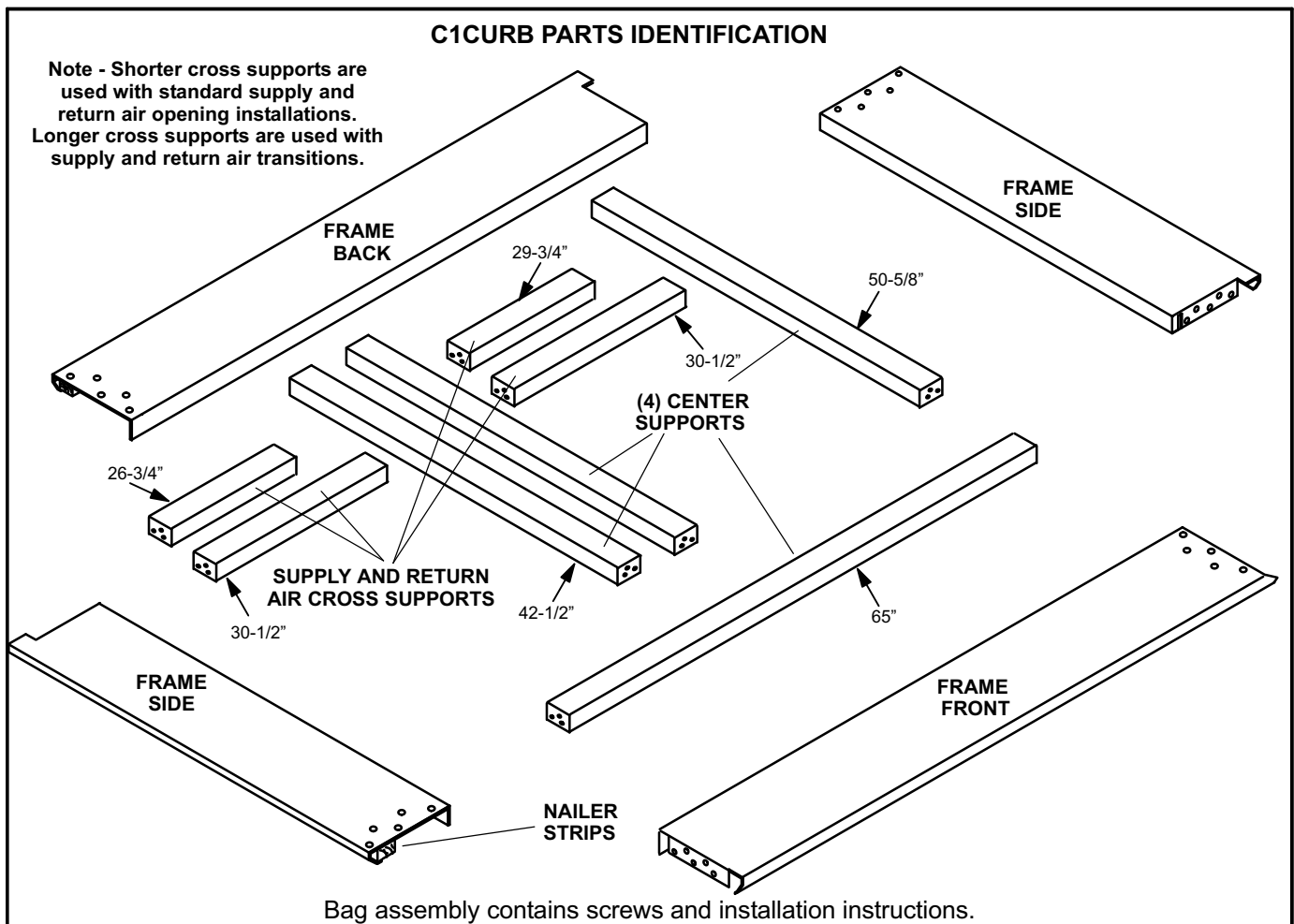


FIGURE 1



C1CURB10B-1 ROOF MOUNTING FRAME DIMENSIONS - inches (mm)

NOTE - Roof deck may be omitted within confines of curb.

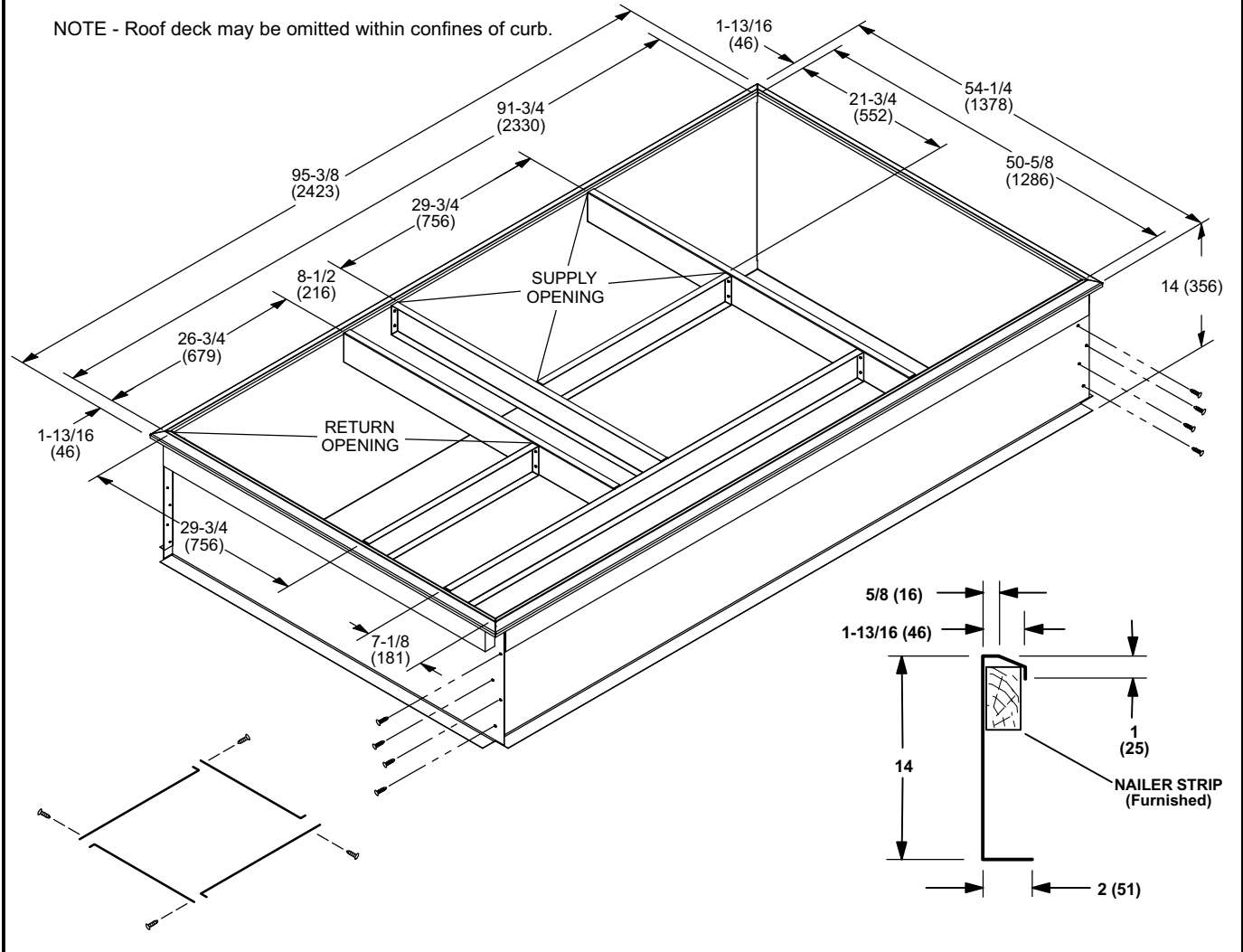


FIGURE 2

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 5. 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 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 roof per local codes.

Curbing and Flashing

- 1- Outside of frame should be insulated with rigid type insulation, preferably 2" (51 mm) thick. Do not use combustible material for filling around frame.
- 2- Counter-flash and seal around frame as shown in figure 6.

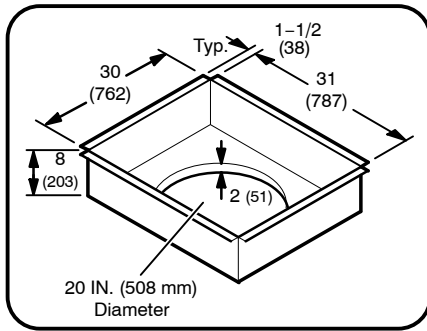
IMPORTANT-If a poured roof is used, such as concrete, be sure inside of mounting frame is adequately braced to ensure a square and level frame.

Miscellaneous

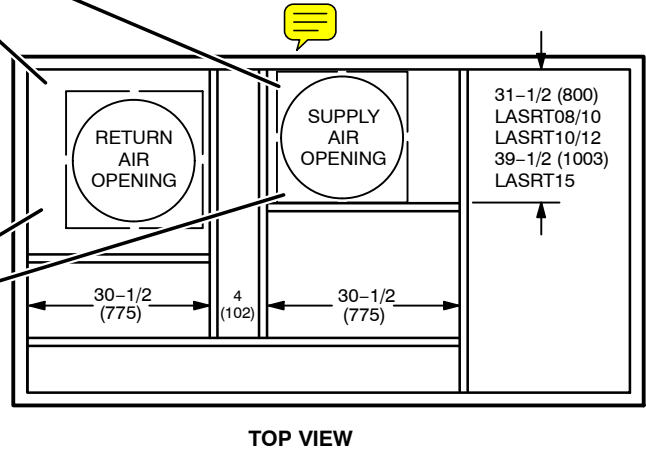
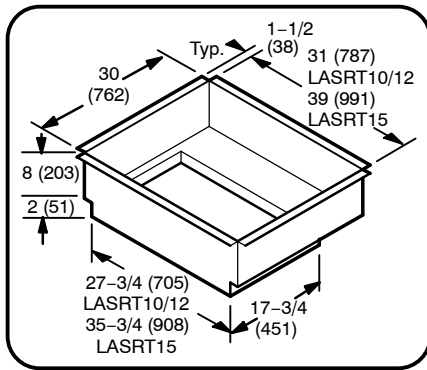
- 1- Where pipes and electrical conduit extend through roof, flashing must conform to National Roofing Contractors Association (NRCA) Standards.
- 2- Roof walkways should be provided around equipment to facilitate servicing.

ROOF CURB WITH SUPPLY AND RETURN AIR TRANSITIONS FOR CEILING DIFFUSER

ROUND TRANSITIONS (for 092 models)



LASRT10/12 & LASRT15 RECTANGULAR TRANSITIONS (for 102 thru 150 models)



TOP VIEW

FIGURE 3

SERVICE CLEARANCES - in. (mm) TOP CLEARANCE UNOBSTRUCTED

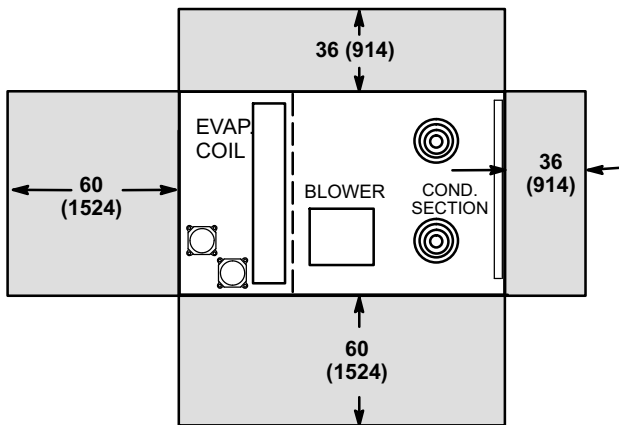


FIGURE 4

SQUARING FRAME

FRAME IS SQUARE WHEN LENGTH FROM CORNER A TO B IS EQUAL TO LENGTH FROM CORNER C TO D.

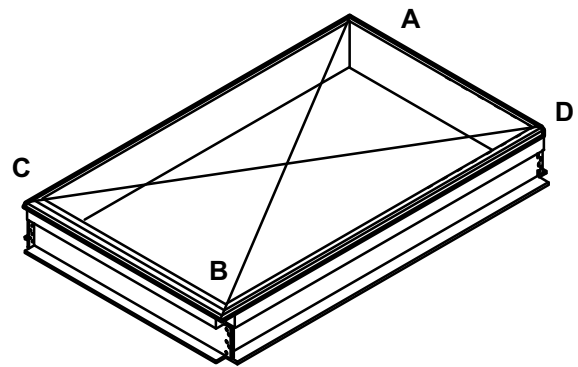


FIGURE 5

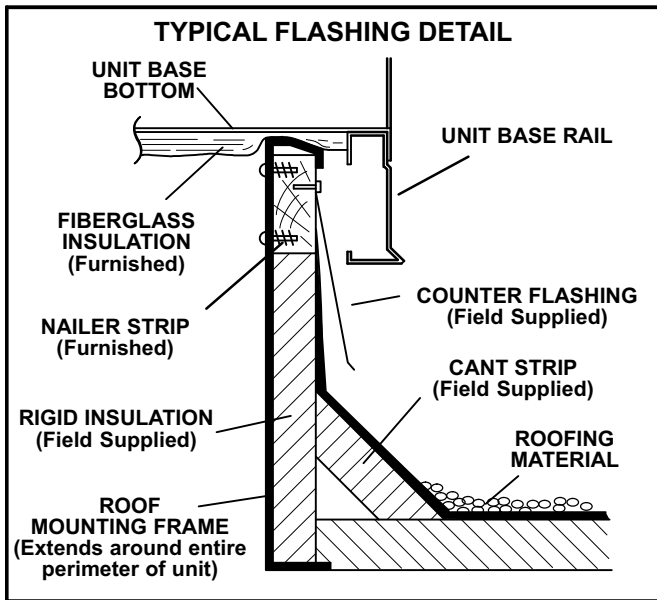


FIGURE 6

Supply and Return Plenum

IMPORTANT-Plenum system must be installed before unit is set on mounting frame.

Plenums must be constructed of galvanized steel with coated fiberglass insulation applied to the inside. It is recommended that 1/2" (13 mm) thick, 3 lb./ft³ (48 kg/m³) density fiberglass insulation be used.

However, if 1-1/2 lb./ft³ (24 kg/m³) density insulation is used, it should be secured with mechanical fasteners. Install plenums as shown in figure 7.

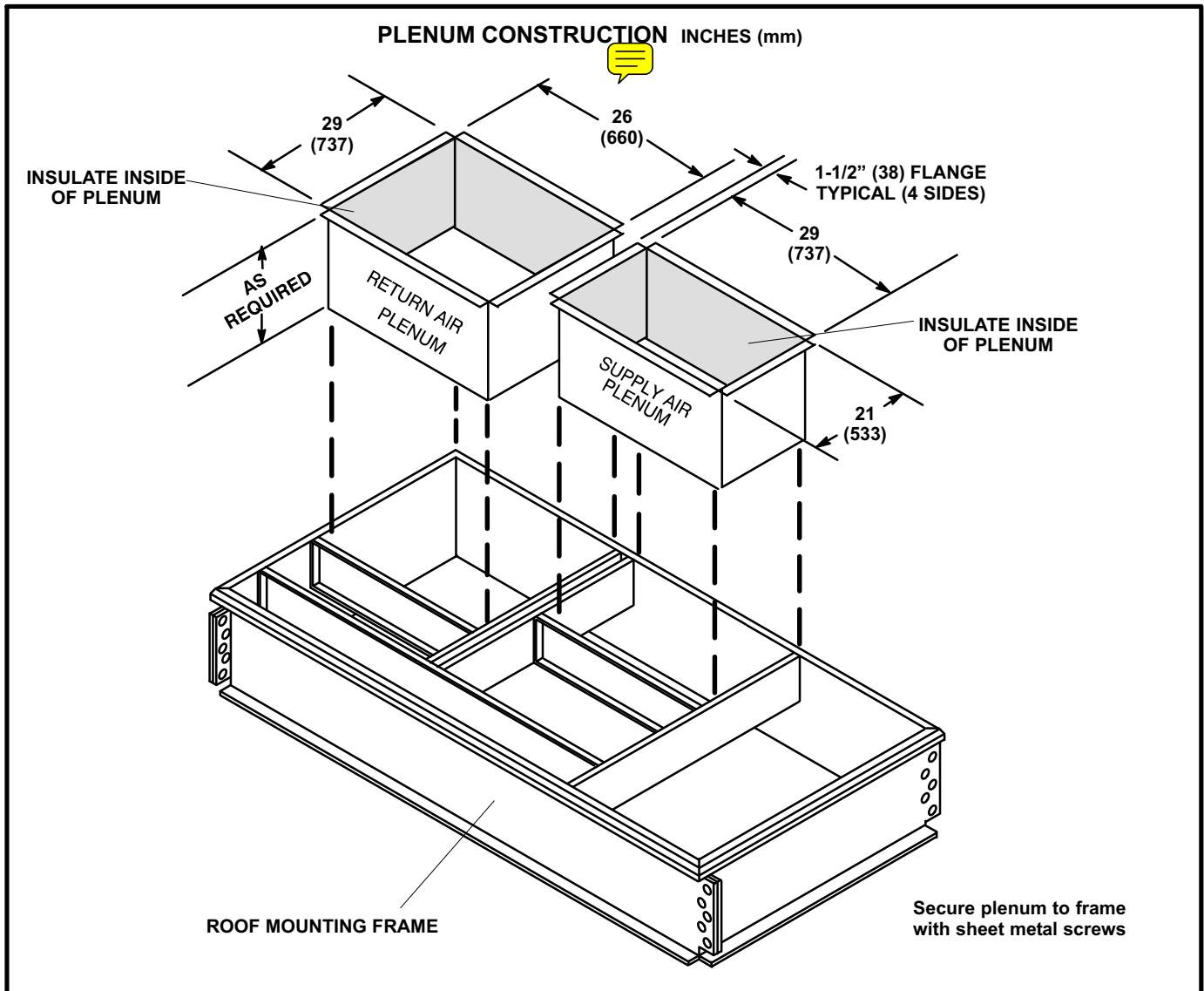


FIGURE 7