

Curb and Ductwork

This fan was specified for a specific CFM and static pressure. The ductwork attached to this unit will significantly affect airflow performance. Flexible ductwork and square elbows should not be used. Also, transitions and turns in ductwork near the fan inlet will cause system effect and will drastically increase the static pressure and reduce airflow. **Follow SMACNA guides and recommendations for the remaining duct run.** Fans designed for rooftop installation should be installed on a prefabricated or factory-built roof curb. Follow curb manufacturer's instructions for proper curb installation.

An example of a curb installation: Curbs should be secured to structural members, such as wooden studs, steel studs, or concrete. The curb should be installed to the roof and/or wall using appropriate type and size fasteners. Refer to **Table 1** for minimum hardware requirements, refer to **Table 2** for quantity per curb flange. Always use suitable fasteners (not furnished) and quantity recommendations.

Refer to **Figure 2** and **Figure 3** for installation details. The fan should be installed on a curb and/or rail. Caulking, flashing, and sealing of wall/roof penetration done by contractor or installer.

Verify that the duct connection and fan inlet are properly aligned and sealed. The fan base is secured to the curb with 1/4"-14 x 2" galvanized self-drilling screws. Use a minimum of 12 screws (3 per side) for units with base sizes 19" through 40". Use a minimum of 16 screws (4 per side) for units with a base size of 44". Shims may be required depending upon curb installation and wall/roofing material. Check all fasteners for tightness.

Figure 2 - Curb Mount Details

