



INSTALLATION INSTRUCTIONS

ALVR-42 Architectural Aluminum Louver Facade

For HWC and EWC Units

This manual must be left with the homeowner for future reference.

General

In many applications, architects and installers will choose to use facades over the front of Magic-Pak units. Often this is done to improve the appearance of a building. Properly constructed louver facades may also provide some degree of weather protection and sound deflection.

Louver facades can be designed by engineers and architects and integrated into the building construction by contractors in the field. However, research and testing has shown that many designs may actually diminish the performance of the Magic-Pak units and in some cases even damage them.

For these reasons, Allied Air approved the ALVR-42 architectural aluminum louver facade kit. The instructions provided with the kit should serve as a general guide for installation of the kit. For guidelines on designing louver facades, refer to the Magic-Pak V-Series™ Application Guide (Allied Air P/N MPVSAGM-400).

The ALVR-42 is designed to be integrated into the construction of the finish wall or secured directly into the finish wall. Therefore, actual installation of the louvers will vary depending on the type of finish wall it is applied to.

The ALVR-42 kit is available in many different colors to match finish walls. Color matching services are also available. For more information concerning color matching, please contact your supplier.

Assembly

The ALVR-42 kit consists of two sections of louver fins. The top section is composed of fins angled approximately 30° upward while the bottom section consists of fins angled approximately 30° downward (see Figure 1). This design allows flue gases and condenser discharge air to be circulated away from the condenser inlet and burner compartment fresh air intake.

There is also a sealing gasket between the two louver sections to allow for separation of inlet and discharge air when the louver is secured directly to the front of the unit. When the louver is secured away from the unit, a separation bracket sealed to the unit and then to the louver kit must be field-fabricated and installed.

The ALVR-42 louver is 45" tall to accommodate proper drainage of the unit and wall sleeve and proper discharge of condenser air and flue gases.

Installation

The ALVR-42 is designed to be fastened to the wall sleeve using field-supplied materials and techniques.

Whenever installing a louver facade of any type, special considerations must be made for proper drainage and air circulation. The drain holes of the wall sleeve and the unit must never be obstructed.

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The louver will fit the front of the wall sleeve and fasten to the wall sleeve. However, the lower lip of the unit will protrude into the louver. The louver must be positioned to accommodate the protruding lower lip.

The louver must be caulk sealed on all four sides and field-supplied flashing should be installed across the bottom of the louver. This will prevent water runoff directly onto the finish wall.

NOTE: Installation requires 6 mounting screws to be field supplied. The following types of screws are recommended:

- #10 tech, 1" long with 3/8" head
- #10 speed point, 1" long with 3/8" head

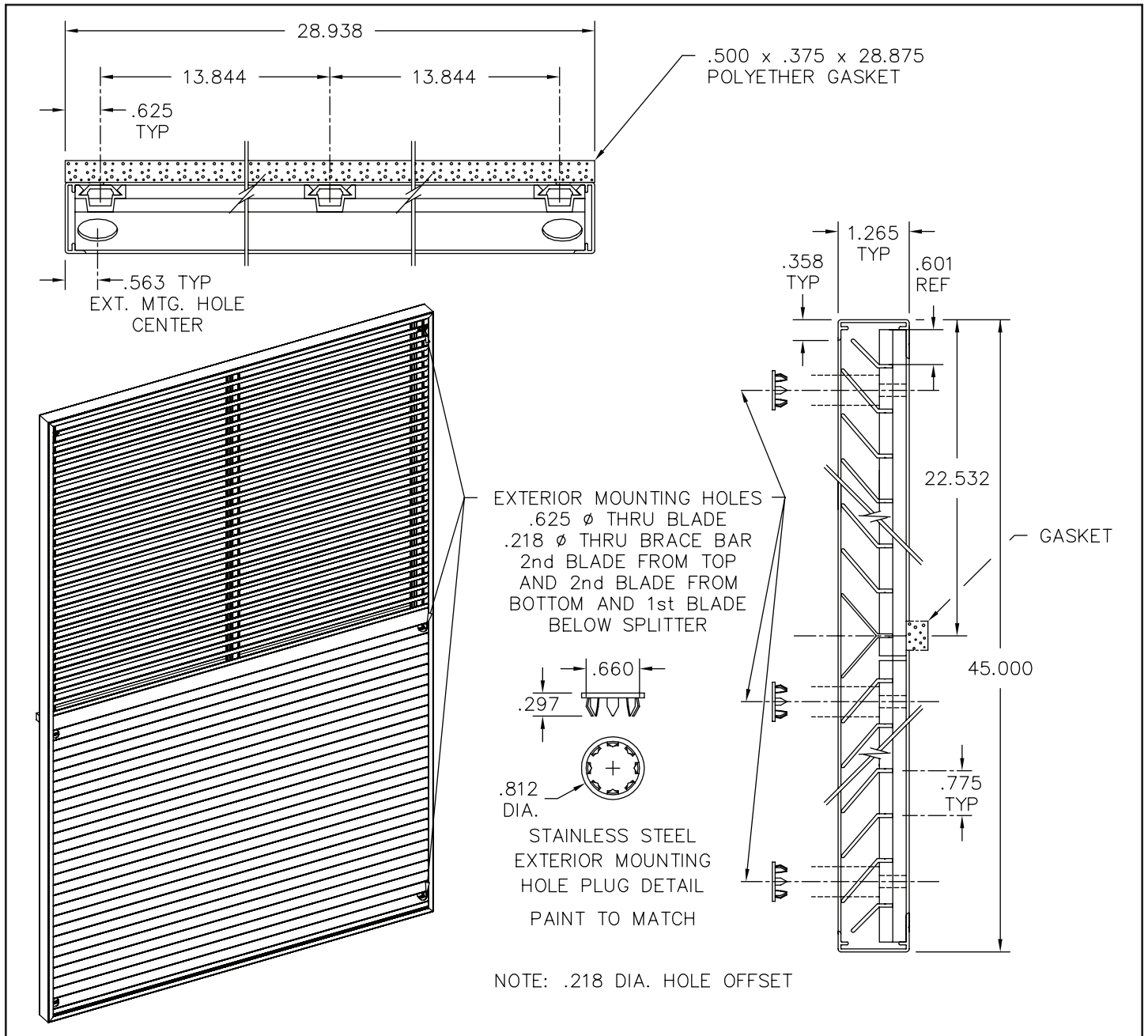


Figure 1.