

## Application

The EFD-637-MD-PH extruded aluminum penthouse is engineered and tested to withstand extreme loads, debris impact and cyclic failure associated with the severe weather effects of hurricanes (**Miami-Dade County approval #05-0725.05**). Designed for intake and exhaust applications, the EFD-637-MD-PH frequently serves as a gravity ventilator, fan discharge cap, fresh air intake cap, sight shield or pressure relief ventilator.

## Standard Construction

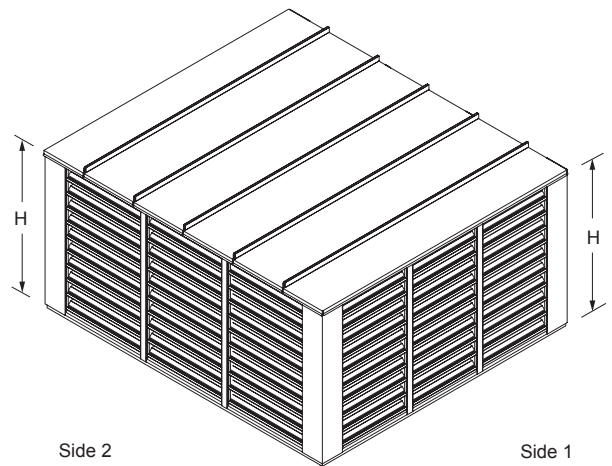
- Material:** Mill finish 6063-T5 extruded aluminum.
- Frame:** 6" deep × 0.125" thick (152 × 3.2) channel.
- Blades:** 37½° × 0.081" (2.0) thick horizontal style.
- Corner:** Boxed.
- Roof:** 2" (51) thick, expanded foam board laminated and sandwiched between double skins of 0.081" (2) thick aluminum — raised seam type.
- Screen:** ½" × 0.063" (12.7 × 1.6) expanded and flattened aluminum.
- Mullion:** Visible.
- Minimum Size:** 12" × 12" (305 × 305), 12" (305) high
- Maximum Size:** Factory assembled: 48" × 48" (1219 × 1219)  
 Field erected: 100" × 88" (2450 × 2235)  
 Maximum height: 60" (1524)

## Options

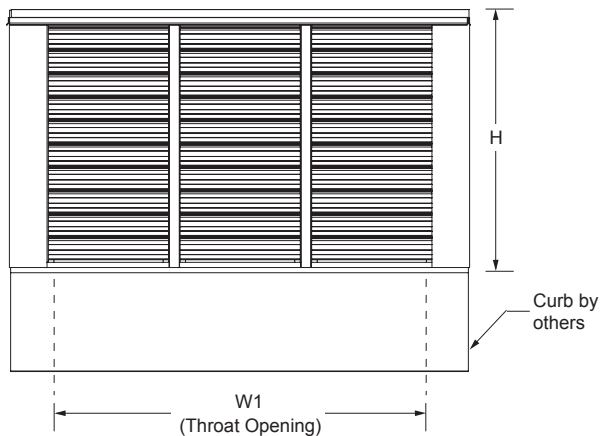
- Factory finish:
  - High Performance Fluoropolymer - 100% resin Newlar®/ 70% resin Kynar®
  - Baked Enamel
  - Clear or Color Anodized, Class 1
  - Prime Coat
- Hinged Roof.
- Alternate bird or insect screens.
- Insulated or non-insulated blank-off panels.
- Filter racks.
- Sill flashing.       1" (25) fiberglass roof insulation.

## Ratings

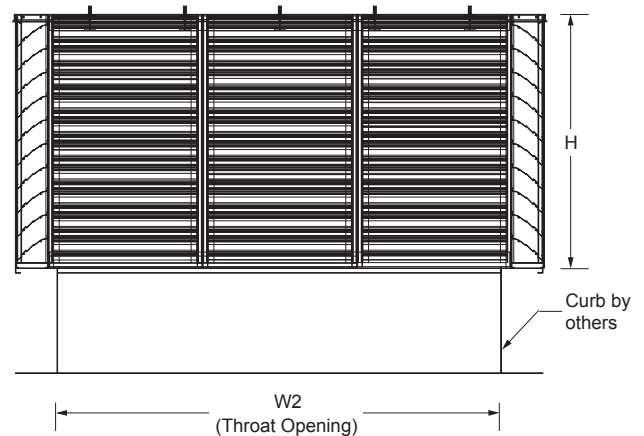
- Louver Free Area (per side):**  
 [48" × 48" (1222 × 1222) unit]: 9.5 ft<sup>2</sup> (0.88 m<sup>2</sup>)  
 59.4%
- Performance @ Beginning Point of Water Penetration**
- Free Area Velocity:** 990 fpm (5.03 m/s)
- Air Volume Delivered:** 9,405 cfm (4.44 m<sup>3</sup>/s)
- Pressure Loss:** 0.11 in.wg. (27 Pa)
- Velocity @ 0.15 in.wg. Pressure Loss:** 1150 fpm (5.84 m/s)
- Design Load:** 80 psf



Model **EFD-637-MD-PH**  
 (standard)  
 \*Louvers dimensions furnished  
 approximately 1/2" (13) undersize.



**Side View**



**Section View**

**Note:** EFD-637-MD-PH must be installed in accordance with specific installation instructions - contact factory for details.