

1. Product Name

Moffitt Firex™

2. Manufacturer

Moffitt Corporation
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3. Product Description

Basic Use

The Moffitt Firex provides a solution for life safety requirements, where fire smoke evacuation is required by code, or by the owner. The Moffitt Firex allows smoke to exit a building through natural ventilation, providing time for occupants to safely exit the building, creating visibility for fire fighters to assess the fire and protecting the building and its contents. The Moffitt Firex is a failsafe device that operates with the melting of a fusible link and is spring loaded to allow the rising smoke and heat to exit the building naturally. There is no electric wiring or pneumatics to maintain, or to protect in case of fire. The Moffitt Firex also has a pull cable allowing the unit to be opened manually as necessary by the fire fighters to clear the building of smoke. Typical applications include auditoriums, atriums, elevator shafts, storage buildings and large industrial buildings. The Moffitt Firex can also be equipped with polycarbonate lids, providing natural light into the space, creating another natural solution for the owner.

Composition and Materials

- Base: 14GA G-90 mill finish galvanized steel or 0.90 mill finish aluminum
- 0.050 inch aluminum double wall lid with laminated honeycomb insulation
- Heavy duty zinc plate hinge system with 1/4 inch brass pin
- Springs are wound of 0.500 inch coil steel wire to manufacturer's specifications
- Heavy duty shock absorbers, made to manufacturer's specifications
- 165 degree F, UL-listed fusible link
- EPDM door seals

Features and Benefits:

- Wind uplift: 40 lbs/ft²
- Snow load: 10 lbs/ft²
- Inside and outside manual release
- Mounting options with or without curb depending on the roof design
- Doors have a positive lock in the open position against untimely closing
- Low-profile design (153/4 inch closed height) does not detract from the architectural concept of modern buildings

Sizes

See Table 1. Other sizes available upon request.

Finishes

Mill finish aluminum lids. Other finishes available upon request

Accessories/Options

- Aluminum base option
- Polycarbonate lids for natural daylighting
- 16 gauge galvanized steel lids with G90 mill finish—other finishes available upon request
- Electric, thermo resettable links available
- Electrical Testing Lab (ETL) registered links available
- Burglar bars
- Bridge splices available to combine multiple units

For all any other options, please consult manufacturer.

4. Technical Data

Applicable Standards

FM Approvals

- FM Approval Class Number 4430

UL International

- **UL 793** Automatically Operated Roof Vents for Smoke & Heat

5. Installation

Download installation instructions [here](#).

1. Lift the unit to the roof, note the lift points stenciled on the doors.
2. Position the unit adjacent to the roof opening and uncrate, if crated.
3. Place the unit over the roof opening (if self-flashing type) or on the roof curb (if curb type).
The units must be flat and true on the mounting surface and not be in a twist to assure proper operation and weather seal.
4. Anchor the unit in place.
5. Remove the shipping strap that is installed at middle top of vent doors.
6. The unit can now be opened manually to check for proper operation by pulling the roof level manual release handle. Be sure to stay clear of the spring-loaded doors.
7. If manual inside release cable is furnished, it will now be accessible while the doors are open. The inside release will be taped onto the cable to the roof release. Untape and drop inside release handle.
8. Reset the doors by pushing down in the center of the door until the latches engage. Be sure that the seals along the center gutter are properly aligned.
9. In normal operation no lubrication or maintenance will be required for the life of the unit.

6. Availability and Cost

Please contact Moffitt Corporation for availability and pricing.

7. Warranty

Moffitt Corporation warrants this equipment to be free from defects in materials and workmanship for five years from date of shipment.

Note: use of the unit for ventilation or as an access hatch voids all warranties.

Note: field painting of unit voids all warranties.

8. Maintenance

Download maintenance instructions [here](#).

The basic design and construction of this automatically operated roof vent is virtually maintenance free. All component pieces of the operating mechanism are manufactured of corrosion resistant materials. All pivots are brass, bronze or stainless steel.

Based on the above Moffitt Corporation makes the following recommendations:

1. Units should be manually opened once every 12 months, by use of the outside manual release.
2. After opening, unit should be visually checked with particular attention to the integrity of springs, fusible link and latch components. No lubricants or coatings should be applied.
3. Doors should be manually reset from roof line.
4. In order to assure the automatic release of these units, NO materials may be stored on or in these units. Units must NOT be used for general ventilation, or be field painted.
5. In the unlikely event replacement parts are required, they should be purchased from the manufacturer to assure the integrity and proper operation of the unit.

9. Technical Services

Please contact William Peterson, *technical sales manager*, wpeterson@moffittcorp.com. 800-474-3267 x 116.

10. Filing Systems

Additional product information is available from the manufacturer upon request

Table 1—Sizes			
Module	Inside Dimensions (W × L in inches)	Vent Area (ft²)	Net Weight (lbs)
FX-44	48 × 48	16	345
FX-45	48 × 60	20	380
FX-46	48 × 72	24	415
FX-47	48 × 84	28	450
FX-48	48 × 96	32	485
FX-55	60 × 60	25	425
FX-56	60 × 72	30	465
FX-57	60 × 84	35	520
FX-58	60 × 96	40	540
FX-66	72 × 72	36	525
FX-67	72 × 84	42	545
FX-68	72 × 96	48	565
FX-69	72 × 108	54	590