MoffittVent™ Natural Ventilator

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Moffitt
NATURAL VENTILATION SOLUTIONS

MoffittVent Product Details

PRODUCT DESCRIPTION

The MoffittVent™ natural ventilator is capable of exhausting large volumes of warm air from a building without letting any rain enter. It is ideal for high heat, heavy industrial applications. This powerful ventilator has helped lower building temperatures for over sixty years.

STANDARD FEATURES

- Throat width: 24" - 180"
- Length: 10' - 1000'+
- Mounting: Ridge, Slope, or Single Peak
- Prime painted red
- Galvalume sheeting, Mill Finish
- Stainless steel sheeting fasteners
- 100% free area to face area ratio.
- Gutters and Downspouts
- Mounting Fasteners
- Designed to meet local wind & snow codes
- Installation instructions
- ½" mesh 19 ga. Galvanized steel bird screen

OPTIONAL FEATURES

- Sheeting
  - Aluminum
  - Stainless Steel
  - Fiberglass
- Painted sheeting
  - Kynar® Exterior with Wash Coat Interior
  - Kynar® Interior and Exterior
  - other specialty coatings
- Frames
  - Prime painted gray
  - Hot dip galvanized
  - Custom to spec
- Damper
  - Manual Damper
  - Motorized Damper
- Installation
  - Turnkey with Extended Warranty
  - Supervision

PRODUCT BENEFITS

- Uses no energy, has no operating costs, and requires little to no maintenance.
- No water entry at *any* wind velocity. All water is collected and redirected onto the roof.
- Efficiency is not affected by the direction or velocity of the wind. Performance increases with wind.
- Adaptable to many building types with many specialty features.
- Designed to meet local wind / snow loads.
- Operates silently.

INDUSTRY APPLICATIONS

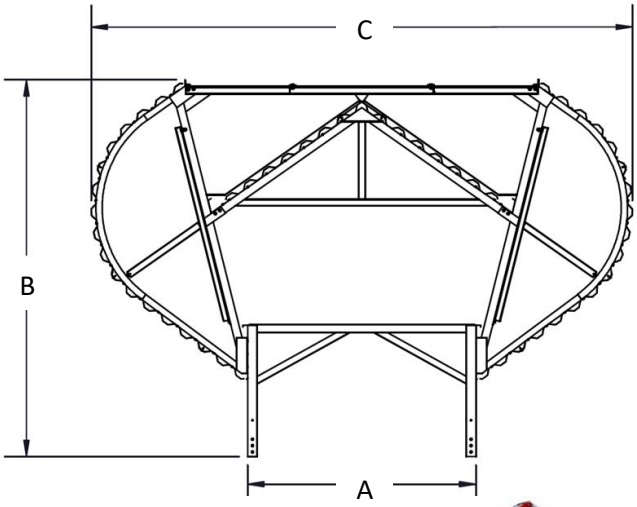
- Aluminum
- Automotive Plants
- Cement & Concrete
- Foundries & Forging
- Glass & Glass Products
- Heavy Manufacturing
- Mining & Minerals
- Process Industry
- Power stations
- Specialty Chemicals
- Steel industry
- +Other

Specifications are subject to change without notice unless approved in submittal by Moffitt

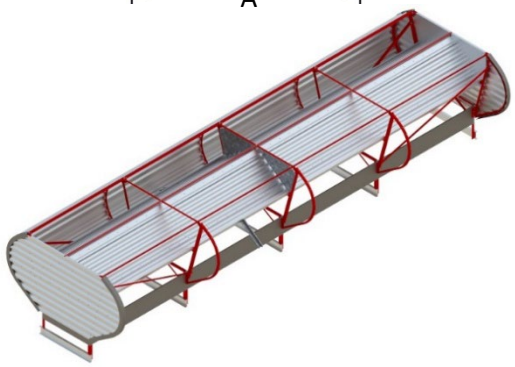
MoffittVent Submittal Data

STANDARD FEATURES

1. Airshaft Frame
2. Damper - Motorized
3. Operator Rack & Pinion
4. Airshaft Panel
5. Wind band Frame
6. Fixed Top Frame
7. Top Tie Angle
8. Stringer Angle
9. Drain Gutter (w/ downspouts to wind band)
10. Corrugated Fixed Top Panel
11. Fixed Top Cap Transverse Baffle
12. Corrugated Wind band
13. Bird Screen (if required)



Quantity	Throat	Length	Mounting	Location



Model	Throat Width A	Vent Height B	Frame Width C	Height	Length	Vent Weight (lb/ft)	Vent + Screen Weight (lb/ft)	Vent + Damper Weight (lb/ft)	Vent + Damper + Screen Weight (lb/ft)
MV-24	24”	34.5 "	61.25 "	3’-8”		32	34.25	46.8	49.05
MV-36	36”	48.875”	87.75”	5’-1”		54	58.5	76.2	80.7
MV-48	48"	62.375"	114.5"	6’-2”	As	68	74	97.6	103.6
MV-72	72”	92.5 "	167.875"	6’-5”	Needed	125	131.75	169.4	176.15
MV-96	96"	120"	18'-10"	7’-8”		170	180.5	229.2	239.7
MV-144	144"	14'-10"	27'-3"	10’-0”		360	375	448.8	463.8
MV-180	180"	17'-11"	33'-9"	12’-5”		388	406	499	517

Weights indicated in this catalog are based on the standard frame spacing of 10’ and standard components. If the spacing varies from this, the overall vent weight will increase due to the increased number of frames. Additionally, if a custom accessory (i.e., a silencer) is selected, the vent will weigh more than indicated. Consult with a Moffitt engineer for an accurate weight. The vent weights indicated in this catalog do not consider any wind loading or snow loading forces. Moffitt can provide reaction loads upon request to help with the design of the vent connection.

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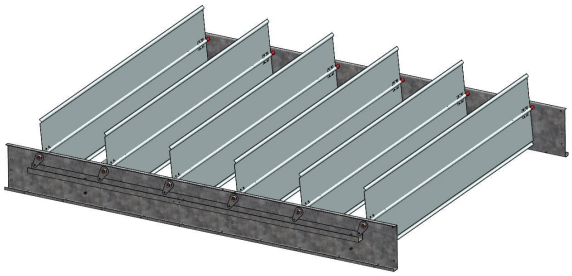
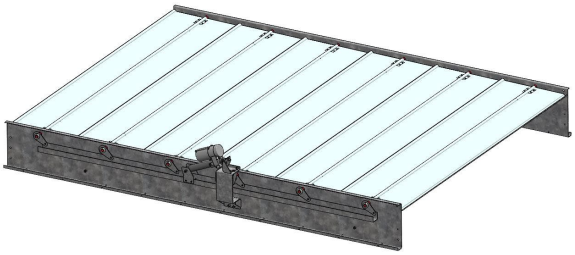
MoffittVent Damper

The MoffittVent can be equipped with a damper as needed. This is most often utilized in environments that experience very cold temperatures wherein keeping the warm air in is beneficial. The damper is designed to utilize powered linear actuators, but a manual option without an actuator is also available.



Damper Module (No actuator)



Damper Module (with actuator)

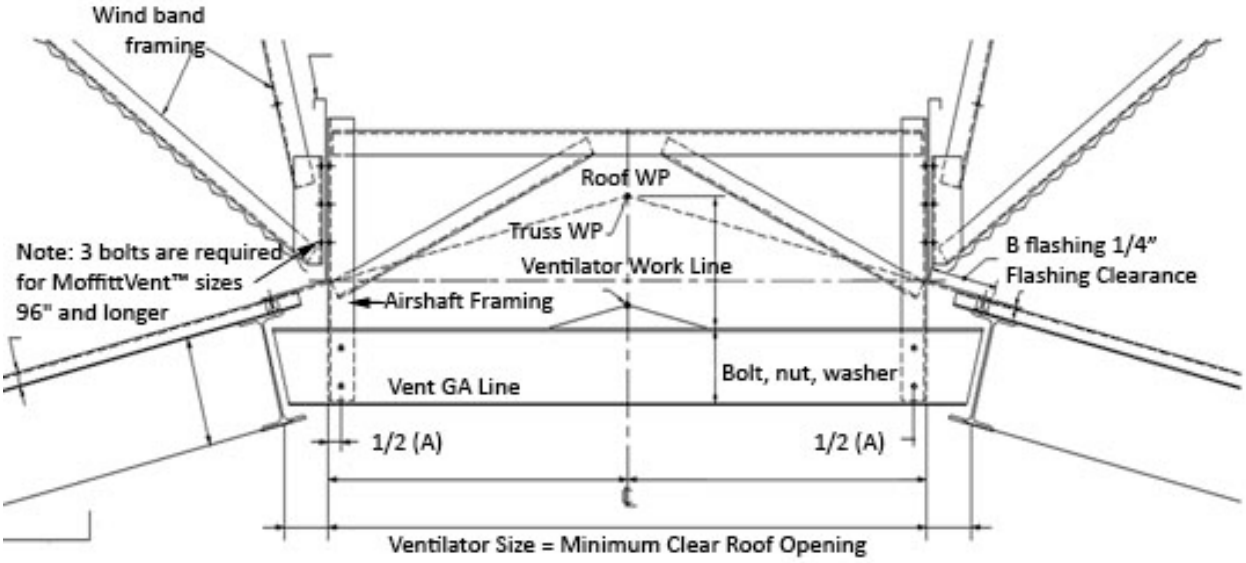
OPERATOR OPTIONS

- Actuator - The typical operator for the MoffittVent damper is a 115 VAC motorized linear actuator with a 4" stroke. The operator is designed to actuate a 30' operating section, or (3) standard modules. The standard damper includes an actuator for each 10' section, as well as the necessary equipment to mount the actuator itself. Please consult the Design Engineer on the project if a larger operating section is needed.
- Manual Operator - Manual systems vary depending on the building layout, roof height, and other factors. The Moffitt team can detail the options available for your system.

- ## MoffittVent Mounting Details

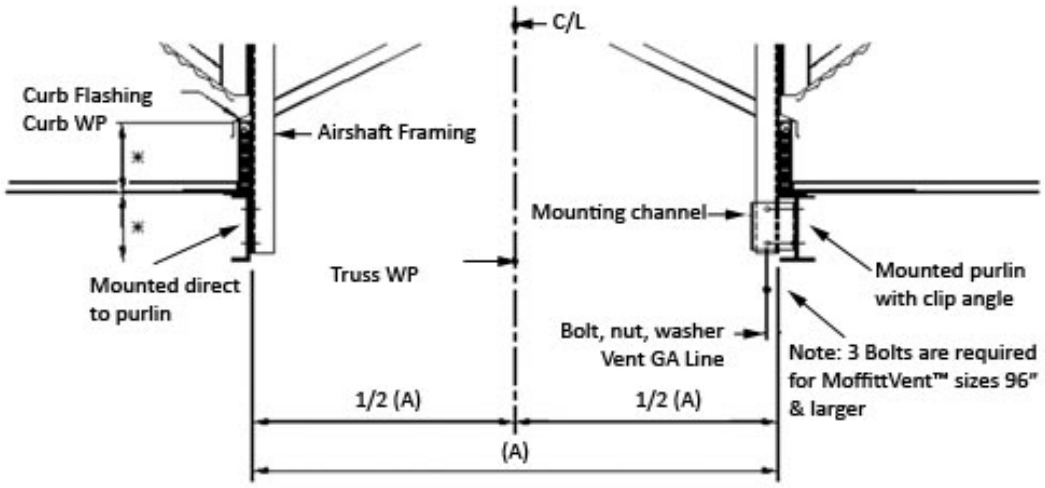
See the diagrams below for typical connection and frame details.

Typical Channel Diagram Connection



Information Required for Frame Detail

- Roof Depth
- Size, Weight, Type of "W" Beams
- Roof Depth
- Size, Weight, Type of Purlin Truss Spacing



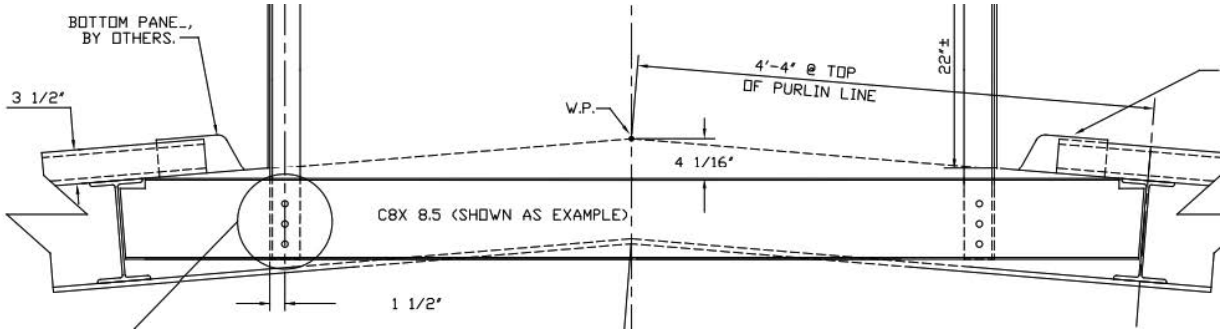
Not Provided by the Ventilator Contractor

- Channel Diaphragm
- Holes in channel diaphragm
- "W" Beams
- Holes in "W" Beams"
- Closure
- Closure Screw
- Purlins
- Roofing

MoffittVent Mounting Details cont.

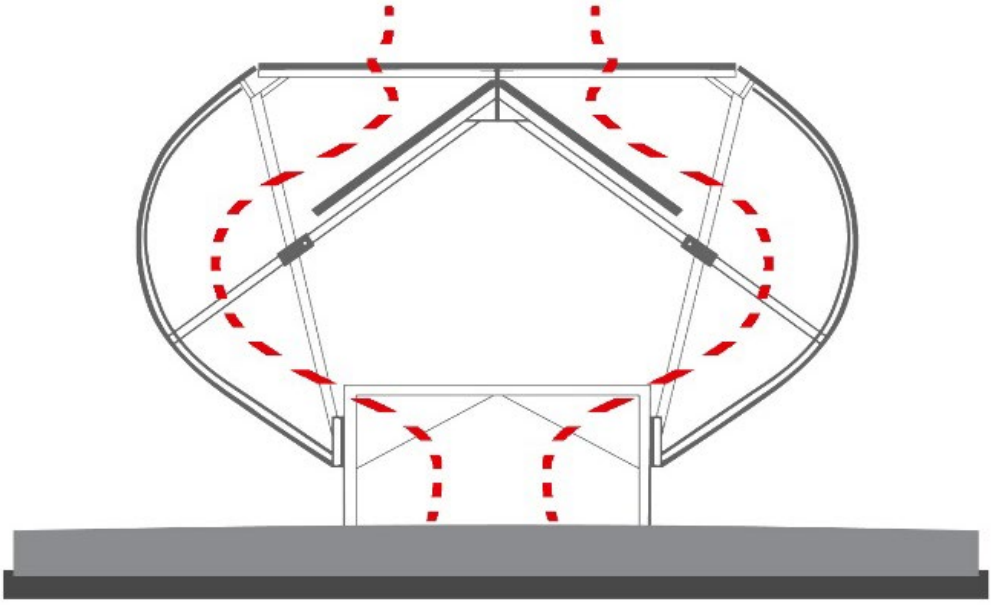
Ventilators like the MoffittVent are most often located at the peak / ridge of the building, which is why they are often known as ridge vents. The MoffittVent, however, can also be mounted downslope or on a flat roof, depending on the building structure and environmental requirements.

The typical mounting for the MoffittVent utilizes a C channel spanning between the building steel at the peak. The airshaft frame is then connected to the existing structural steel by mounting hardware, which is typically included with the MoffittVent.

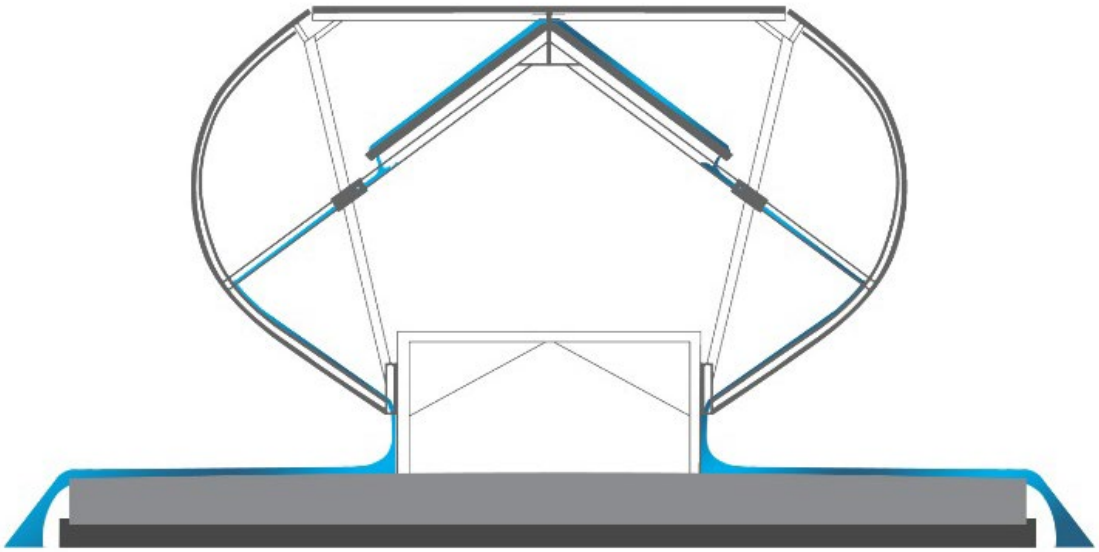


When placing the MoffittVent, as with any structure, great care is taken to ensure the structural integrity of the construction. The mounting arrangement and the exterior cladding are the critical structural design points on a MoffittVent. The Moffitt team will determine the best mounting options for your building.

MoffittVent Air Flow & Drainage Diagrams



Warm Air Exhaust



Water Flow

MoffittVent Photos