# MoffittVent™ Natural Ventilator

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Moffitt
NATURAL VENTILATION SOLUTIONS

# MoffittVent Product Details

## PRODUCT DESCRIPTION

The MoffittVent™ is a natural ventilation device that is capable of exhausting large volumes of warm air from a building without letting any rain enter the building. It is ideal for heavy-industrial, high heat applications. This powerful ventilator has helped buildings lower temperatures for nearly 60 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.
- Contributes zero sound to building.

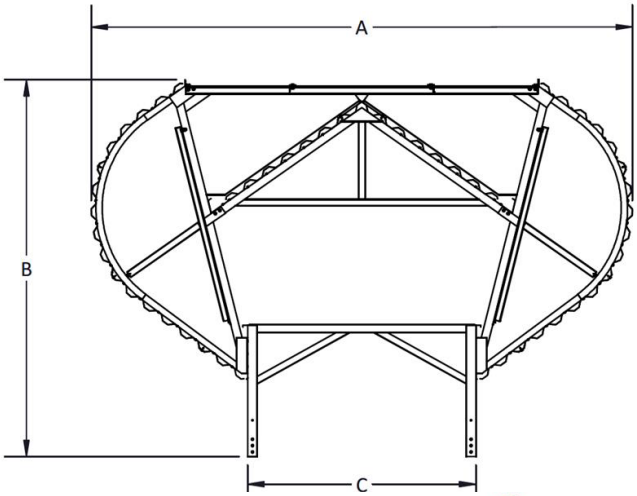
## INDUSTRY APPLICATIONS

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

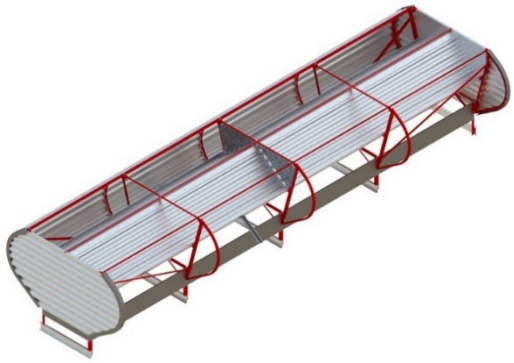
# MoffittVent Submittal Data

STANDARD FEATURES

1. Airshaft Frame
2. Damper – Single Leaf (*if required*)
2. Operator
3. 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)




| Line | Quantity | Throat | Length | Mounting | Location |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |



| Model | Throat Width A | Vent Height B | Frame Width C | Height | Length | Weight (lb/ft) | Weight w/Damper (lb/ft) |
|---|---|---|---|---|---|---|---|
| **MV-24** | 24” | 34 1/2 " | 61 1/4 " | 3’-8” | xx | 54 | 69 |
| **MV-36** | 36” | 48-7/8” | 87-3/4” | 5’-1” | xx | 79 | 97 |
| **MV-48** | 48" | 62-3/8" | 114-1/2" | 6’-2” | xx | 97 | 121 |
| **MV-72** | 72” | 92 1/2 " | 167-7/8" | 6’-5” | xx | 122 | 199 |
| **MV-96** | 96" | 120" | 18'-10" | 7’-8” | xx | 227 | 258 |
| **MV-144** | 144" | 14'-10" | 27'-3" | 10’-0” | xx | 360 | 431 |
| **MV-180** | 180" | 17'-11" | 33'-9" | 12’-5” | xx | 572 | 643 |

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



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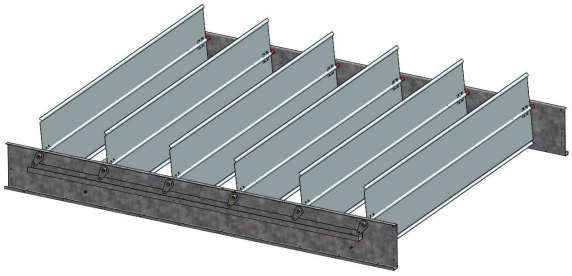
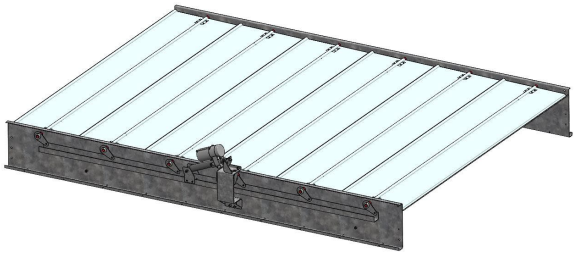
# MoffittVent Damper

Standard Damper Module (With Actuator) - The standard with actuator damper module is 10’ in length with all the necessary equipment to attach a linear actuator.

Damper End Module – The end module of the damper is made custom to fit the end of the run for damper runs that are not in 10’ increments. This module may or may not have custom blade sizes and a custom overall length. Damper End Modules never come with actuator attachments.



Damper Module (No actuator)



Damper Module (with actuator)

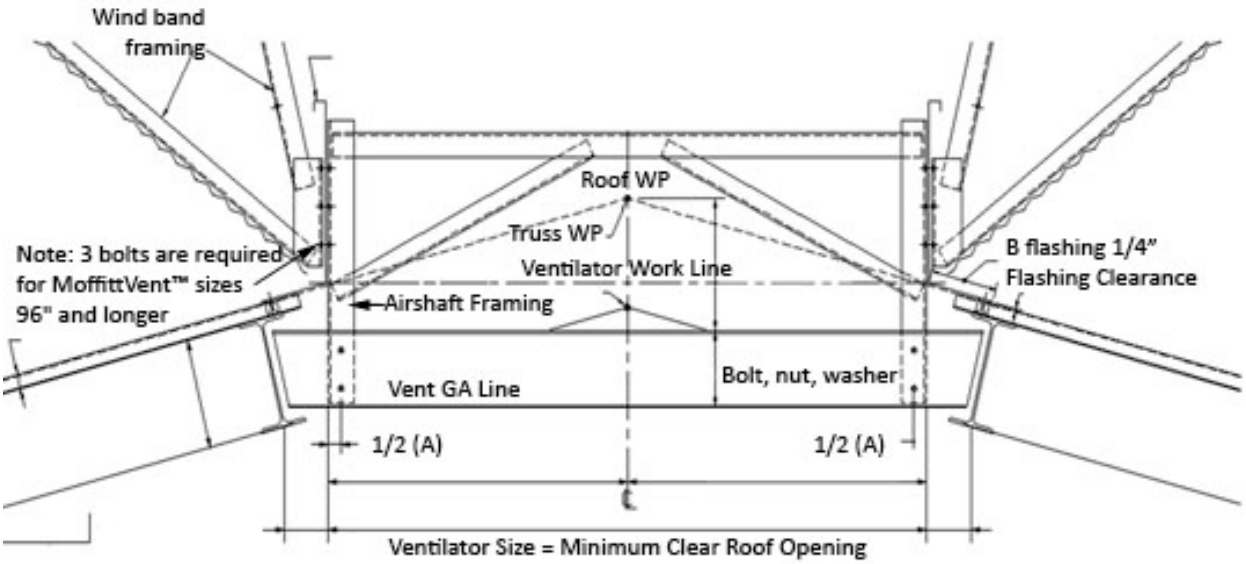
The typical operator for the MoffittVent damper is a 115 VAC motorized linear actuator (*See Appendix 4.5*) with a 4” stroke. The operator is designed to actuate a 30’ operating section, or (3) standard modules. Please consult the Design Engineer on the project if a larger operating section is needed.

Manual Operation

When closing of a vent is required, the MoffittVent damper is designed to operate using powered linear actuators. A manual-operated damper is a custom option currently, but the options for roof-operated and chain-operated manual dampers are in development. Refer to Engineering for more information.

# MoffittVent Mounting Details

## Typical Channel Diagram Connection

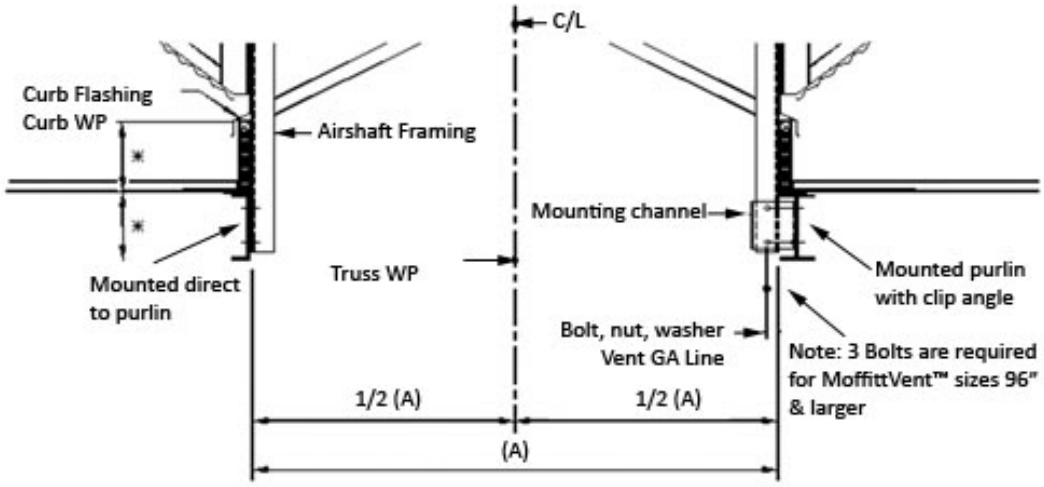



**Information Required for Frame Detail**

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

**Not in Ventilator Contractor**

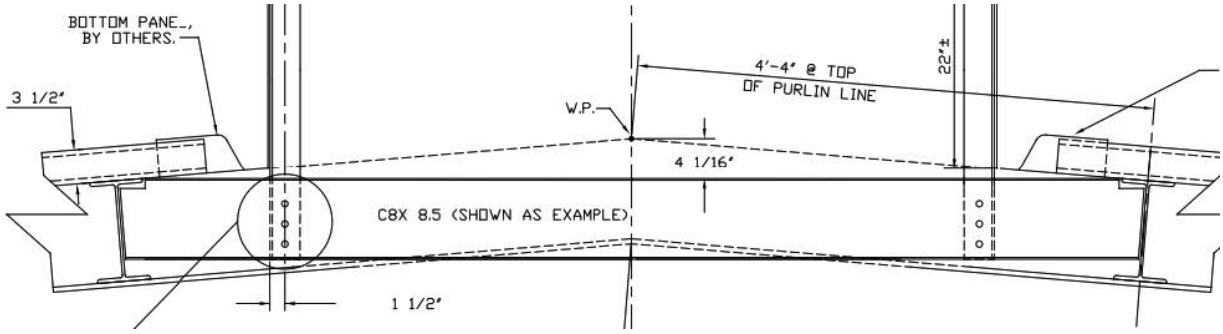
- Channel Diaphragm
- Holes in channel diaphragm
- "W" Beams
- Holes in "W" Beams"
- Closure
- Closure Screw
- Purlins
- Roofing



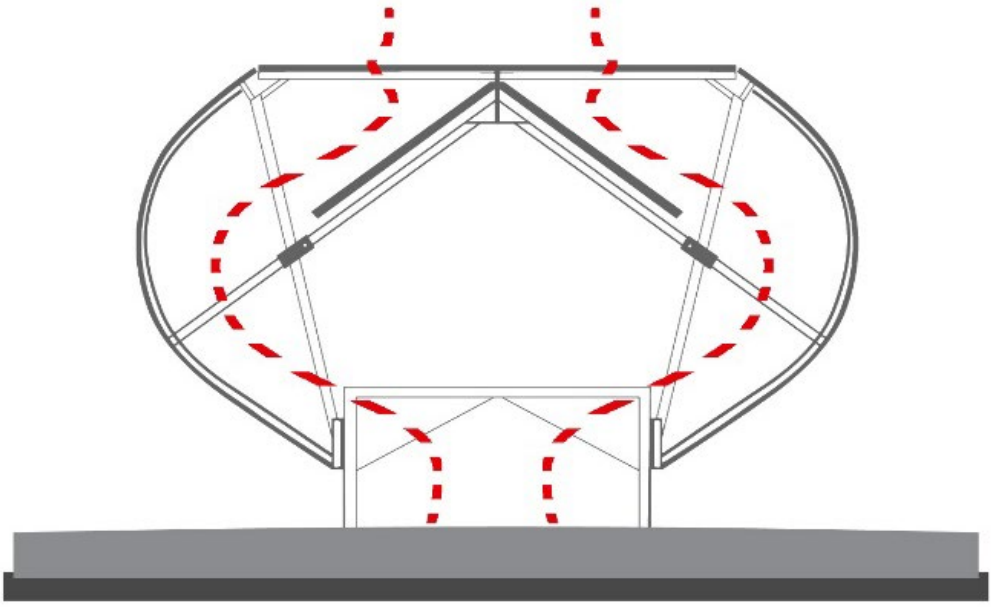
# MoffittVent Mounting Conditions

When placing any structure, the main performance metric to monitor is the structural integrity of the design. The mounting arrangement and the exterior cladding are the critical structural design points on a MoffittVent.

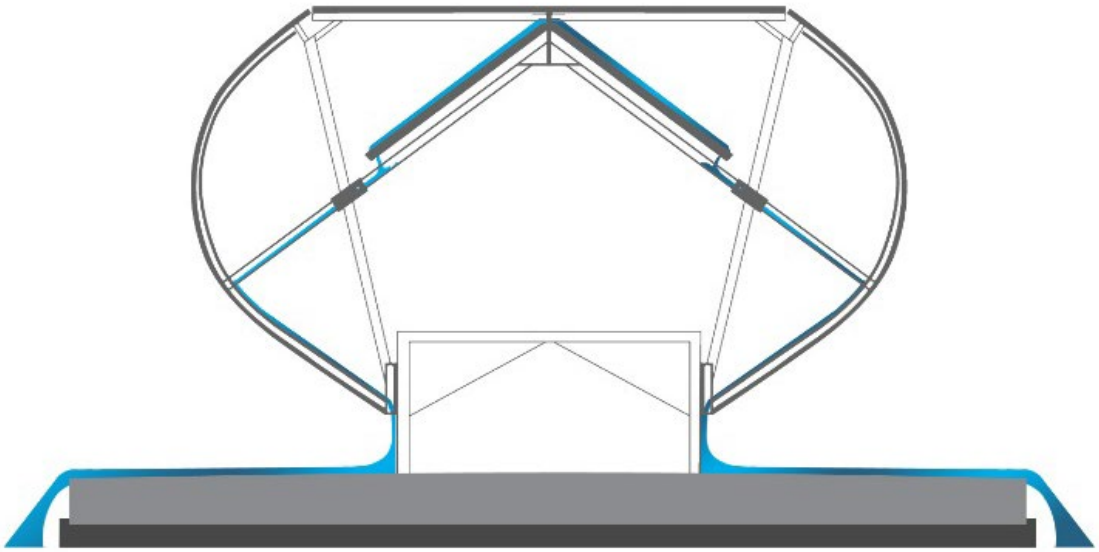
MoffittVent ventilators are Continuous Ridge Vents (CRV) most often located at the peak of the building. The typical recommended mounting conditions for the MoffittVent utilizes a C channel spanning between the building steel at the peak. The airshaft frame is then connected to the existing structural steel by mounting hardware typically included with the MoffittVent.



# MoffittVent Air Flow & Drainage Diagram



**Warm Air Exhaust**



**Water Flow**

## MoffittVent Pictures