VENTILATION’S **Natural Solution** Since 1961

**Natural Ventilation Products**  **Design Solutions**

**Industry Experience**  **Installation**
Moffitt Corporation has been in the HVAC industry since 1961 manufacturing ventilation and heating equipment, designing ventilation and heating systems as well as providing installation services.

Moffitt also offers free ventilation design and unmatched customer service to go along with more than 50 years of experience.

Product Lines:
Eagle Series---Natural Ventilation Products Pages 8-9
Gator Series---Powered Axial Ventilation Fans Pages 10-11
Coyote Series---Welded & Specialty Fans Pages 12-13
Shark Series---Centrifugal Exhaust Fans Pages 14-15
Panther Series---Fiberglass Ventilation Equipment Page 16

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Design Solutions

Natural Ventilation

A natural gravity system provides a natural intake for fresh supply air and evacuation point for heat and fumes with non-powered ventilation equipment. The hot air and fumes must rise due to the natural gravity of physics. Natural heat rise will pull fresh outside air through intake openings at sidewall and floor level. This is also known as a chimney effect.

The natural ventilation system can be designed and substantiated based on standard laws of physics calculations. This design has ZERO operating cost and has been proven in many different plant applications.

Benefits for Moffitt’s Natural Ventilation Design include:
- Zero Operational Cost
- Design Flexibility
- No Maintenance Required
- Provides Worker Comfort
- No Sound
- Eliminates Heat and Smoke

Moffitt’s Natural Ventilation products are part of our Eagle Series line that can be found on page 10 and 11.

Pressure Gravity Ventilation

A natural gravity opening mounted at either peak or high side of building provides a natural evacuation point for heat and fumes. The hot air and fumes must rise due to natural gravity physics.

Building pressurization through powered supply equipment provides a ventilation assist to the natural system, increasing the ventilation rate of the natural system. Supply air can be placed where needed, penetrating deep into the plant and eliminating ventilation dead zones in a facility. Strategically placed natural outlets promote building exhaust and do not allow the hot air and fumes an opportunity to build up. This build-up is what creates poor ventilation conditions and haze in a building.

Benefits for Moffitt’s Pressure Gravity Ventilation Design include:
- Creates Air Movement at Floor Level
- Reduces Natural Ventilator Size
- Increased Rate of Ventilation
- Reduced Maintenance
- Reduced Operational Cost

Moffitt’s Pressure Gravity Ventilation products are part of our Eagle, Gator and Coyote Product Series that can be found on pages 10 through 15.
CFD Modeling Services

Moffitt now offers the latest technology in ventilation design with Computational Fluid Dynamics (CFD) Modeling. CFD allows Moffitt to predict flows and transfer of energy within a specific building by identifying sources of heat within a building. CFD uses thermal imaging that allows us to create an energy efficient ventilation system for our customers.

Moffitt will also provide the data to the customer to verify that our designs are accurate. Moffitt’s CFD option provides the following benefits:

- Accurately predicts performance of proposed ventilation design
- Provides data on air flow and temperatures
- Dependable tool for design as well as analysis

Project Profile

Client: Severstal
Application: Flat Roll Steel Mill
Location: Columbus, Mississippi

Equipment Summary:

Continuous Relief Ventilator Over 3,000 linear ft. provided and installed

(16) 11 ft. x 75 ft. Labyrinths, (100) 5’W x 10’H

Model - LV7590 Over 4,450 sq. ft. provided and installed

(5) Wall Exhaust Fans Model PF7160 with Rainhoods

Moffitt has completed several projects for Severstal. From new construction to retrofit projects there is only one ventilation company for this Mississippi mill. Moffitt has the capabilities to handle projects beginning to end; all projects completed for Severstal have been turnkey.

This plant also was the first plant to utilize Moffitt’s Computational Fluid Dynamics (CFD). CFD predicts flows and transfer of energy within a building as well as using thermal imaging to identify heat sources.

Severstal’s Construction Manager, Jim Bell, fully endorses Moffitt Corporation, “In my past 20 years of Steel Mill Construction and being around the Steel Mills I haven’t put in anything besides Moffitt ventilators.”
Installation & Turnkey Services

Moffitt’s three companies: Moffitt Corporation, Moffitt Fan and Moffitt Mechanical work together synergistically to make sure your project is completed right the first time.

Moffitt Corporation is our sales headquarters based in Jacksonville Beach, FL.

Moffitt Fan is where our manufacturing plant is located in Leroy, NY.

Moffitt Mechanical is based in Jacksonville Beach, FL as well with the capability to provide installation service in most U.S. States.

Moffitt’s turnkey service has been an integral part of our company’s history of 50 years. Much of the success of Moffitt turnkey projects are provided from engineering, manufacturing, sales and installation leaving you with one source and one responsibility for all your ventilation needs.

Moffitt has been Ventilation’s Natural Solution since 1961, so not only will Moffitt provide and install the equipment for you, Moffitt can also design your ventilation system to make sure your ventilation need is diagnosed properly. What more could you want from a ventilation provider? All your concerns are covered when you use Moffitt as your ventilation provider.

Contact us today to put your worries away. 1 (800) 474-3267.
Moffitt's Eagle Series is designed for energy efficiency. This series is made up of Moffitt’s Natural Ventilation line products. The Eagle series requires no operating cost, reduced maintenance, noiseless operation and is environmentally friendly while eliminating heat and smoke build-up.

Several products in the Eagle series are also integrated into Moffitt’s Natural & Pressure Gravity System designs. For free ventilation design contact Moffitt Corporation today.

You can find more product info at www.moffitthvac.com

Monovent CRV  
Continuous Relief Vent

GreenRoo  
Wind-Driven Turbine Vent

Labyrinth  
Natural Louvered Vent

LPV  
Low Profile Vent

WCO  
Natural Louvered Vent

Model SG  
Stationary Exhaust Vent

Seefire  
Low Profile Vent

Series 100-200  
Gravity Relief Intake Vent

RMVS  
Small Ridge Ventilator

Moffitt Louvers: Extruded Aluminum, Steel, Specialty Louvers 35° to 90°
Moffitt’s Gator Series is designed with convenience in mind. A number of products in the Gator Series are available for quick ship allowing you to receive these products as soon as next day to as little as ten days shipping from Jacksonville, FL. Many of these products are also AMCA International licensed and a UL listing can be provided as well. Screwed Construction makes this an ideal product offering for many applications.

Several fans in Moffitt’s Gator Series are sized up to 72”.

You can find more product info at www.moffitthvac.com
Moffitt's Coyote Series is our welded series designed to meet a wide range of ventilation needs. This series is very flexible and is used for any specialty “out of the box” manufacture. This series features various propeller options, out of catalog selections and fan diameters up to 120”. With the wide reaching flexibility of this product line, application for these is limitless.

The Coyote Series ships from San Diego, CA or Leroy, NY

Consult factory for selection assistance with the Coyote Series

You can find more product info at www.moffitthvac.com

Wall Fans
Direct Drive/Belt Drive
Sizes 12” to 120”

Hooded Roof Supply
Supply or Recirculation
Direct Drive/Belt Drive

Upblast Roof Fan
Direct Drive/Belt Drive

Tube Upblast Fan
Belt Drive

Series 1000 - Tube Axial
Belt Drive

Series 2000 - Tube Axial Direct
Drive

VENTILATION'S
NATURAL SOLUTION SINCE 1961
Shark Series
Centrifugal Exhaust Fans

Moffitt’s Shark Series is constructed of spun aluminum. This eliminates rusting and provides a lighter roof load. A number of products in the Shark Series are available for quick ship allowing you to receive these products as soon as next day to as little as ten days shipping from Jacksonville, FL. Many of these products are also AMCA International licensed and a UL listing can be provided as well. These products are suitable for both commercial and industrial use.

Several fans in Moffitt’s Shark Series are sized up to 72”.

You can find more product info at www.moffitthvac.com
Moffitt's Panther Series is designed for long product life in corrosive environments. These fiberglass ventilation products are made from premium grade polyester or vinyl ester resin, depending on the application. The Panther Series is available in both centrifugal & axial lines. Specially construction is also available.

Several fans in Moffitt's Panther Series are sized up to 60” or larger.

You can find more product info at www.moffitthvac.com

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### Recommended Air Changes

<table>
<thead>
<tr>
<th>Type of Building</th>
<th>Air Changes / Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler Room</td>
<td>30-60</td>
</tr>
<tr>
<td>Box Annealing</td>
<td>20</td>
</tr>
<tr>
<td>Breweries- Fermenting Room</td>
<td>20-30</td>
</tr>
<tr>
<td>Bottle Pasteurizing</td>
<td>20-30</td>
</tr>
<tr>
<td>Keg Washing and Storage</td>
<td>8-12</td>
</tr>
<tr>
<td>Dye Houses</td>
<td>10-15</td>
</tr>
<tr>
<td>Electric Furnaces</td>
<td>Special 60-120</td>
</tr>
<tr>
<td>Engine Room</td>
<td>30</td>
</tr>
<tr>
<td>Forge Shops</td>
<td>35</td>
</tr>
<tr>
<td>Foundries- Pouring Section</td>
<td>20-30</td>
</tr>
<tr>
<td>Moulding Section</td>
<td>20-30</td>
</tr>
<tr>
<td>Core Rooms</td>
<td>40-60</td>
</tr>
<tr>
<td>Cupola Buildings</td>
<td>30-40</td>
</tr>
<tr>
<td>Furnace Buildings (Steel)</td>
<td>45</td>
</tr>
<tr>
<td>Galvanizing Room</td>
<td>15-20</td>
</tr>
<tr>
<td>Gas Producer Building</td>
<td>10-20</td>
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<tr>
<td>Generating Room</td>
<td>20</td>
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<tr>
<td>Glass Furnaces</td>
<td>Special 60-120</td>
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<tr>
<td>Glass Plant</td>
<td>30-60</td>
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<tr>
<td>Heat Treating Room</td>
<td>60-120</td>
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<tr>
<td>Machine Shops</td>
<td>10-15</td>
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<tr>
<td>Mill, Textile</td>
<td>10-15</td>
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<tr>
<td>Oil Refineries - Pump Houses</td>
<td>15-20</td>
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<tr>
<td>Compressor</td>
<td>15-20</td>
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<tr>
<td>Packing (Meat)-Slaughter House</td>
<td>5-10</td>
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<tr>
<td>Smoke Houses</td>
<td>30</td>
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<tr>
<td>Paint Spray Areas</td>
<td>60-90</td>
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<tr>
<td>Paper Mills</td>
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<tr>
<td>Beater Room</td>
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<tr>
<td>Pickling- Open Type</td>
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<tr>
<td>Continuous</td>
<td>10-15</td>
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<tr>
<td>Sugar Mills- Main Building</td>
<td>15-20</td>
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<tr>
<td>Battery and Presses</td>
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<tr>
<td>Transformer Room</td>
<td>30</td>
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<tr>
<td>Turbine Room</td>
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<tr>
<td>Electricity</td>
<td>4-5</td>
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<tr>
<td>Warehouses</td>
<td>60</td>
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