

Nortek Global HVAC

Poplar Bluff, Missouri



Nortek Global HVAC manufactures high-value heating and air solutions for residential and commercial HVAC markets. By anticipating customer needs and delivering innovative solutions that exceed expectations, Nortek is recognized for their world class brands such as Maytag, Frigidaire, Gibson, NuTone, Broan, Reznor and Mammoth.

The Nortek Central Distribution is an 800,000 sq. ft. warehouse distribution facility. A coating system with a leak free warranty was considered for the 600,000 sq. ft. section where they were having roof leaks. However, there were concerns because the seams and fasteners had already been coated and they were continuing to have leaks. The large metal roof had so much movement between the panels, it would tear the coating open at the seams in some areas. With the recommendations from an independent manufacturer's representative, the decision was made to go with a WindSmart System instead. The WindSmart System bid was comparable in cost to the coating system, and the building owner recognized that a new membrane would offer superior protection.

The WindSmart vented roof system was installed during early summer 2020. The system utilized the WindSmart metal overlay system which included flute fill, protective board and a 60mil thermoplastic membrane. The system was installed in 13 weeks, with a crew of 8-10 on-site workers, even with significant inclement weather challenges.

On large, open, metal panel roofs, the WindSmart vented roof system can be one of the most cost-effective ways to build a longer lasting membrane roof assembly. Additionally, the manager of the facility, Randy Clark, stated that once the new roof was completed, the temperature inside was 20 degrees cooler during the summer, making all the employees very satisfied with their work environment and more productive.

The new roof assembly was designed and installed to achieve:

- Added insulation to improve energy efficiency
- A more resilient solution to the buildings metal panel contraction and expansion
- Longer-lasting weather protection

Owner:

Nortek Global HVAC
O'Fallon, MO

Roofing Contractor:

WindSmart Approved Contractor

Square Footage:

600,000 sq. ft.

Material and Technology:

60mil Thermoplastic Membrane,
Air-Sealed, Pressure-Equalized

Year Completed:

2020

Contact:

WindSmart, Technologically-Advanced Roofs
Des Moines, Iowa
(800) 474-8186 (toll free)
www.windsmartroofs.com



Technologically-Advanced
Air-Sealed, Pressure-Equalized Commercial Roof Systems®

Key Benefits of the WindSmart® Vented Roof System



Environmental Stewardship

A sustainable long term solution. Roof waste streams are a significant factor in the overloading of landfills. By keeping roof assemblies dry and in place long term, the normal practice of continual tear-off can be avoided.



High Weather Resistance

Greater protection from wind and weather elements. Highly weather resistant roofs require a combination of proper configuration, quality materials and professional installation. The WindSmart Vented Roof System can achieve the highest level of weather protection from wind, rain and hail.



Entrapped Moisture Removal

A roof which can remain dry – long term. The system is laboratory tested and field proven to remove any future entrapped moisture. Ensuring a dry roof is the key strategy for roof longevity, high thermal values and the ongoing recyclability of commercial roof assemblies.



Most Cost-Effective Solution

Lowest life-cycle costs. The WindSmart System can significantly lower initial roof replacement costs. With WindSmart, it is possible to produce the lowest life-cycle cost roof assembly in the marketplace.

WindSmart is driven to support your needs

■ Offering comprehensive technical support

We understand that every project is unique. WindSmart works to understand your needs. We utilizes standardized practices to deliver customized recommendations that are tailored to meet your specific project goals.

■ Making your job less difficult

WindSmart provides standardized drawings and value-added services to support the proper installation of the WindSmart system. Our goal is an installed system that performs to everyone's expectations.

WindSmart® Patented *WindForce 365*® Equalization Vent

WindSmart's patented WindForce 365® Equalization Vent offers the highest performing vented roof system in the industry. WindSmart's technical experience and expansive library of air seal techniques and options are designed to achieve superior performing vented roof assemblies.

