

Perishable Distributors of Iowa (PDI)

Ankeny, Iowa



Established in 1982, Perishable Distributors of Iowa (PDI) provides a distribution system that supplies quality perishable products. PDI has achieved a Platinum certification through the Zero Waste Council for its 98.3% diversion rate of waste from landfills, incinerators and the environment. Today, PDI is a wholly-owned subsidiary of Hy-Vee Inc., a supermarket chain with sales of more than \$9 billion and 240 retail locations in eight Midwestern states.

In 2018 PDI facility management began investigating solutions to their "end-of-life" roof assembly. The original building sections covered a cold storage environment with R60 levels of insulation and considerable electrical conduit attached to the metal deck. PDI entertained multiple proposals from local roofing contractors. WindSmart developed a proposal for a longer lasting assembly. The design provided thicker thermoplastic membrane and enhanced waterproofing techniques for PDI ammonia piping. Even with such quality enhancements, the WindSmart system was proposed and installed for a significantly lower cost.

WindSmart system can be configured to provide a superior, long-lasting roof that can be installed more quickly. The PDI project was installed without disrupting any daily operations while recycling all the existing roof insulation in place. On large open roofs, the WindSmart system is the most cost-effective way to achieve a higher performing roof assembly.

The new roof assembly was designed and installed to achieve:

- Enhanced Energy Efficiency – minimizing fastening through the deck eliminated internal air leakage into the roof assembly and the wasteful thermal bridging associated with traditional mechanically fastened roof assemblies
- Environmental Stewardship – a project aligned with the owner's commitment to "zero waste" by recycling existing roof materials and insulation in place verses the wasteful practice of landfilling
- Higher Weather Resistance – a project designed to achieve a longer lasting level of weather protection (wind, rain and moisture intrusion) to protect the critical operations of PDI

Owner:

Perishable Distributors of Iowa, a subsidiary of Hy-Vee, Inc.
Ankeny, Iowa

Roofing Contractor:

WindSmart Approved Applicator

Square Footage:

150,000+ sq. ft.

Material and Technology:

80-Mil Thermoplastic Membrane,
Air-Sealed, Pressure-Equalized System

Year Completed:

2019

Contact:

WindSmart Systems
(800) 474-8186 (toll free)
www.windsmarots.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 utilize 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.

