

St. Augustin Catholic School

Des Moines, IA



St. Augustin is a leading Des Moines Catholic K-8 school committed to inspiring excellence of the whole student through an education founded in community and faith. St. Augustin Catholic School provides exceptional academics and experiences in a Catholic setting. The school provides a warm, caring environment where students are challenged every day to learn essential curriculum, as well as the value of human dignity and the concepts of peace. The U.S. Department of Education named St. Augustin Catholic School a Blue Ribbon School in 2004.

In 2018, the Parish Facility Committee began exploring facility needs at the 24-year-old facility. The existing 45mil ballasted EPDM over metal and tectum decks had performed well but was at the end of its life. The school was experiencing increasing frequency of leaks which were difficult to locate and correct. In the Spring of 2019, the parish developed a specified with the Diocese to consider multiple replacement options, including mechanically fastened, fully adhered and alternative WindSmart System design. The WindSmart System was not only more cost effective but also included added insulation, enhanced 30-year waterproofing details and a longer (25 year) warranty term.

During summer of 2020, the WindSmart System was installed. WindSmart provided on site in progress inspections of behalf of the parish. Less than a month after completion, the building experienced a large derecho wind event. Facility Director, Keith Sherman, intentionally watched the roof during the derecho even to confirm its performance. He said: "it performed exactly the way it was explained to us – the new roof was tightly sucked to the deck just like a fully adhered roof system!"

The new roof assembly was designed and installed to achieve:

- High level of wind up-lift resistance to achieve ASCE 7-16 compliance.
- High level of environmental sustainability by recycling existing roof materials and insulation in place versus the expensive practice of tear off.
- A longer lasting and warrantable roofing system using cost effective 30-year waterproofing enhancements.

Owner:
St. Augustin Parish

Roofing Contractor:
WindSmart Approved Applicator

Square Footage:
38,011 sq. ft.

Material and Technology:
60-Mil EPDM Membrane

Year Completed:
2020

Contact:
WindSmart, Technologically-Advanced Roofs
Des Moines, Iowa
(800) 474-8186 (toll free)
www.windsmaistroofs.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.

