

**HARNESS THE WIND. BUILD SUPERIOR ROOFS.®**



**WindSmart®**

WindSmart® with Sika Sarnafil® offers the highest performing wind vented roof system in the marketplace.

## WindSmart Systems® with Sika Sarnafil® materials – Unparalleled Performance!

Wind represents the most destructive force affecting roofs. WindSmart systems use science to achieve more wind-resistant, higher performing low-slope commercial roofs. Using a combination of proprietary air-sealing techniques and **WindForce 365** pressure equalization vents, the destructive wind uplift forces are negated. The greater the wind velocity, the more secure the field of the roof assembly can become.

Additionally, through a process of controlled air exchange, the system can be applied to remove entrapped moisture from new and existing roof assemblies. Ongoing moisture removal is the key strategy to roof longevity and ongoing recyclability of the roof assemblies. The WindSmart system, combined with Sika Sarnafil roofing materials, produces the most durable, longest lasting and lowest life-cycle cost roof assemblies in the marketplace.

WindSmart Systems roofs are backed by extensive laboratory testing. WindSmart's

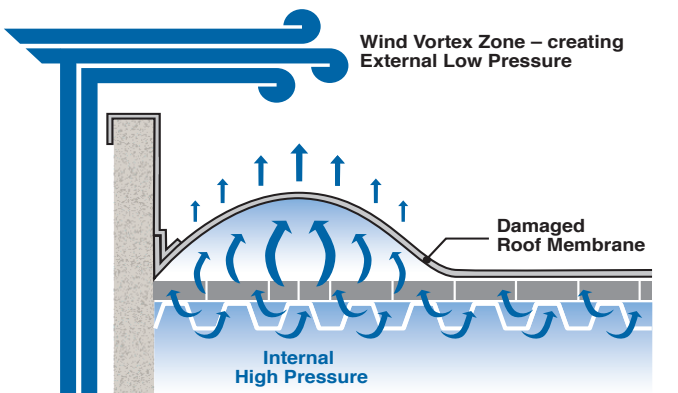
### **WindForce 365 Equalization Vent**

is classified by UL as to resistance to wind uplift pressures:



- Concrete decks: Up to 495 psf
- Metal decks: Up to 285 psf
- Wood decks: Up to 210 psf

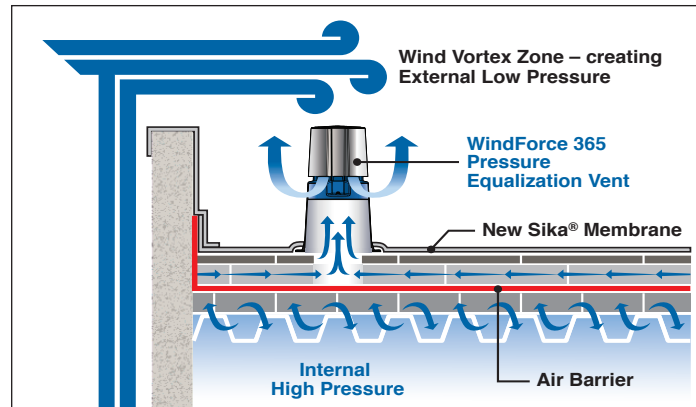
### Without WindSmart Roof Systems®



**Wind currents constantly work to destroy the integrity of conventional roofs.**

When wind hits the side of a building, it creates an updraft. When it meets the horizontal air stream, the updraft violently tumbles, creating a horizontal vortex similar to a tornado. This wind vortex creates an external low pressure that can tear off a conventional roof assembly.

### With WindSmart Roof Systems®



**WindSmart roofs use wind currents to “vacuum-pack” the entire roof and underlying structure.**

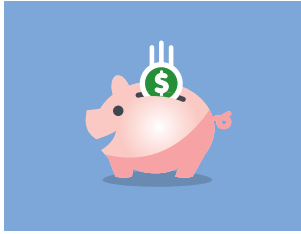
Using an air tight substrate design, wind generated low pressures pull air and moisture from under the roof membrane, up through and out the strategically placed equalization vents. A suction is created, pulling the roof membrane tightly against the substrate, resisting wind uplift.





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## Key Benefits of a WindSmart System® with Sika® membranes



### Most Cost-Effective Solution

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**Lowest life-cycle costs.** The WindSmart System can significantly lower initial roof replacement costs. By combining WindSmart systems with Sika membranes, it is possible to produce the lowest life-cycle cost roof assembly in the marketplace.



### Environmental Stewardship

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**The most sustainable long-term solution.** Roof waste streams are a significant factor in the overloading of landfills. By keeping roof assemblies dry and in place, tear-off can be avoided. And by recycling existing Sika membranes, the highest level of roof sustainability can be achieved.



### High Weather Resistance

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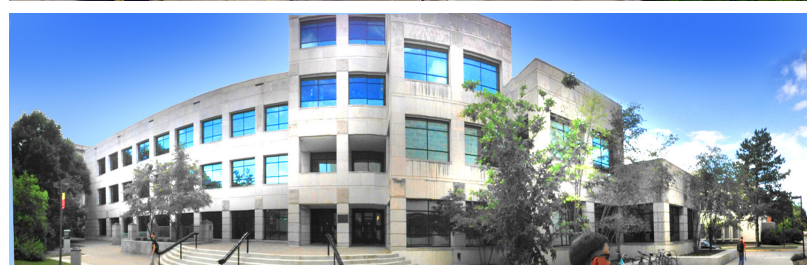
**Greater protection from wind and weather elements.** Highly weather-resistant roofs require a combination of quality workmanship by Sika Applicators, WindSmart technology and the selection of quality Sika membranes. WindSmart with Sika roofing membranes produces greater resistance to major weather events.



### Entrapped Moisture Removal

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**A roof which can remain dry, long term.** The removal of entrapped moisture is the key strategy for roof longevity, high thermal values and the ongoing, long-term recycling of commercial roof assemblies. WindSmart systems are laboratory tested and field proven to keep assemblies dry.



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## The WindSmart® Destination

WindSmart® is committed to being the recognized market leader in air-sealed, pressure-equalized (wind vented) commercial roof assemblies in North America.

### The WindSmart® Vision

By harnessing the destructive forces of the wind, we will build quantifiably superior roofs. WindSmart® roof systems can be configured to be highly weather resistant to wind, rain, and hail, have moisture

management capabilities and are more durable and last longer on a sustainable basis. WindSmart Approved Applicators install these roof systems cost effectively with the lowest life-cycle costs of any commercial roof system in the marketplace.

### The WindSmart® Promise

- We will partner with others who share our core values and who are committed to building superior roof assemblies and processes
- We will be well-informed on best practices and continually strive for improvement
- We will disseminate information in an unbiased way to inform all stakeholders
- We will always be professional, honest and fair in all transactions
- We will create quality solutions and deliver best value to design professionals, material suppliers, applicators and building owners – in every transaction

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### WindSmart® partners with Sika Sarnafil®

WindSmart and Sika are the leaders in their respective areas of expertise. While WindSmart is the market leader in air-sealed, pressure-equalized (wind vented) roof assemblies, Sika Sarnafil roofing and waterproofing is the worldwide market leader in thermoplastic membrane technology. Together, the partnership creates substantial, competitive advantages for our valued customers.



**WindSmart**SYSTEMS®

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