

**Bradley County Courthouse**

Cleveland, Tennessee



Bradley County is committed to providing a safe, clean and progressive community for its citizens. through the development and implementation of effective programs managed with the highest degree of efficiency. Their focus is on quality of services while minimizing the financial contribution of taxpayers.

The Bradley County Courthouse is home to the Bradley County government operations. In late 2019, the county opened bids for a complete replacement of its aged ballasted EPDM roof system. A WindSmart Approved Contractor out of Chattanooga, TN offered a value engineered alternative – a WindSmart vented roof system. In lieu of tear off and replacement over the existing concrete deck, the WindSmart System provided cost savings and additional capabilities. The system was designed as a coastal application with high wind uplift capabilities and enhanced energy performance.

On difficult-to-fasten-to decks, such as concrete, tectum and gypsum, WindSmart Systems can be one of the most cost-effective ways to re-roof the building. Insulation and membrane can be loose laid and vacuum-packed to the concrete deck with WindSmart pressure equalization vents. The labor and material cost savings of the WindSmart vented roof system can be significant while improving system performance. Two weeks after the project was finished, Cleveland, TN was hit with an EF3 tornado. The contractor reported that the roof performed to perfection without any damage.

The new roof assembly was designed and installed to achieve:

- High level of wind uplift capabilities
- High level of sustainability – existing insulation was recycled in place, minimizing waste streams

**Owner:**  
Bradley County  
Cleveland, TN

**Designer:**  
Contractor Design Build Process

**Roofing Contractor:**  
WindSmart Approved Contractor

**Square Footage:**  
22,620 sq. ft.

**Material and Technology:**  
60mil TPO membrane and protective cover board,  
Air-Sealed, Pressure-Equalized

**Year Completed:**  
2020

**Contact:**  
WindSmart Systems  
(800) 474-8186 (toll free)  
[www.windsmartroofs.com](http://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 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.

