

# DECKVENT EPS INSULATION



## Overview

Versico’s high-performance DeckVent insulation is composed of lightweight, closed-cell expanded polystyrene meeting the requirements of ASTM C578 Type IX. DeckVent has excellent dimensional stability, compressive strength, and water-resistant properties. DeckVent is designed to be installed directly to concrete decks. **The use of DeckVent in conjunction with one-way and two-way relief vents allows the installation of the roof system to begin upon structural cure of concrete.**

## Features and Benefits

- Compatible with mechanically fastened, ballasted, induction welded, and adhered roof systems
- Additional layers of SecurShield™ polyiso insulation permitted above DeckVent
- Contains up to 25% recycled material
- 100% recyclable foam core
- R-value of 7.1 per 2" thick board
- Allows installation of roof system to begin upon structural cure of concrete
- Facilitates air movement within roofing system
- Compatible with structural and structural lightweight concrete decks
- Recessed feet along edges of board to facilitate airflow

## Product Characteristics

DeckVent is offered in a 2" standard thickness and is made with Type IX expanded polystyrene with a nominal density of 2.0 pcf.

STANDARD SIZES			
Thickness	Width	Length	Pieces per Bundle
2"	4'	4'	24

## Installation

### Installation Considerations

1. Install only as much insulation as can be covered by a roof membrane system and/or made watertight by the end of each day.

### Limitations

1. DeckVent cannot be directly exposed to solvent-based adhesives.
2. DeckVent cannot be used in systems with vapor barriers.
3. DeckVent cannot be used with water-based adhesives.
4. DeckVent cannot be used with gypsum based cover boards.
5. DeckVent cannot be used with GRF (glass reinforced felt) faced insulation.

## One- and Two-Way Pressure Relief Vents

Versico's One- and Two-Way Pressure Relief Vents are engineered to reduce moisture within the roofing system and release trapped air pressure within the building. One-Way Vents allow trapped air pressure to escape; Two-Way Vents (combined with One-Way Vents) help to reduce moisture.

**DeckVent must be installed in conjunction with Versico One- and Two-Way Pressure Relief Vents.** Consult Versico for project-specific spacing requirements. Cut a 5"-diameter opening through membrane and insulating material, remove membrane and material to deck, and attach vent to roof deck with appropriate fasteners. Flash in accordance with Versico Specifications and Details.

- **One-way vents (release) shall be installed at a rate of 1 vent every 2,000 square feet.**
- **Two-way vents (intake) shall be installed at a rate of 1 vent every 8,000 square feet.**
- **Projects with individual roof sections less than 2,000 square feet.**

Contact Versico for vent number recommendations.

## Ballasted Systems

End joints must be staggered so they are offset by a minimum of 12" from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. If insulation is being installed under another layer of insulation, joints must be offset a minimum of 6" between layers. When conditions dictate, in order to prevent wind blow-off or damage during installation, loose-laid insulation should be weighed down or tacked into place with a minimal quantity of mechanical fasteners.

## Mechanically Attached Systems

End joints must be staggered so they are offset by a minimum of 12" from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. If insulation is being installed under another layer of insulation, joints must be offset a minimum of 6" between layers. Use an approved fastener of sufficient length to penetrate into or through the deck by the amount prescribed for the specific fastener. DeckVent should be attached a minimum of 8 fasteners per 4' x 4' board. DeckVent can be secured to the roof deck with Versico's Flexible DASH™ Adhesive.

## Adhered Systems

End joints must be staggered so they are offset by a minimum of 12" from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. If insulation is being installed under another layer of insulation, joints must be offset a minimum of 6" between layers. DeckVent can be secured to the roof deck with Versico's Flexible DASH Adhesive. Additional layers of insulation and/or coverboards can be installed above DeckVent using Versico's Flexible DASH adhesive.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

## TYPICAL PROPERTIES AND CHARACTERISTICS

Property	Test Method	Value
Density (nominal pcf)	ASTM D1622	2
R-Value (Thermal Resistance)	C518	7.1 (per 2")
Compressive Strength (psi)	ASTM D1621	25
Flexural Strength (psi)	ASTM C203	50 (min.)
Dimensional Stability (%)	ASTM D2126	2.00 (max.)
Water Vapor Permeance (perm)	ASTM E96	2.50 (max.)
Water Absorption (% vol.)	ASTM C272	2.00 (max.)
Capillarity		none
Flame Spread	ASTM E84	20
Smoke Developed	ASTM E84	150-300

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

## LEED® INFORMATION

Pre-consumer Recycled Content	Up to 25%
Post-consumer Recycled Content	0
Manufacturing Location	Mead, NE