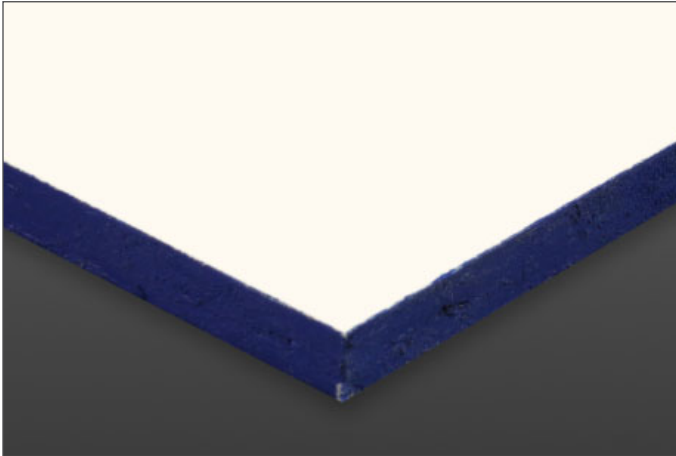


EcoStorm VSH™

Coverboard



Overview

EcoStorm VSH is an engineered composite building material made from a proprietary blend of plastic and cellulose fiber sourced from post-industrial and post-consumer waste streams. EcoStorm VSH is a durable, extremely moisture and mold resistant building material with a core that does not disintegrate or delaminate in the presence of water.

Features and Benefits

- » Extreme Moisture and Mold Resistance
- » FM Very Severe Hail (VSH) approvals (pending)
- » Ultra-high compressive strength of 3,990psi
- » Coated Glass Facer (CGF) on top surface of board
- » High impact resilience – won't chip or crack
- » Sustainability Champion award available for diversion of post-consumer waste from landfill

Product Characteristics

- » Panel size: 4' x 8' (1,220 mm x 2,440 mm)
- » Panel thicknesses
 - ½" (13 mm)
- » Weight
 - ½" – 64 lbs (29.03 kg)

Installation

Mechanically Fastened Single-Ply Systems

Each board must be secured to the substrate with approved Carlisle fasteners and plates. EcoStorm VSH is not compatible with induction-welded systems. Butt the edges and stagger the joints of adjacent boards. **Use carbide teeth saw blades with a minimum of 60 teeth to cut EcoStorm VSH.** Install the roof membrane according to Carlisle specifications.

Adhered Single-Ply Systems

EcoStorm VSH may be secured to the roof deck using Carlisle's FAST™ or Flexible FAST Adhesive or plates and fasteners. For more specifics about adhesive coverage or fastening patterns, please contact Carlisle's Design Services department. Butt the edges of the boards and stagger the joints. **Use carbide teeth saw blades with a minimum of 60 teeth to cut EcoStorm VSH.** Install the membrane according to Carlisle specifications.

Review Carlisle specifications and details for complete installation information.

Precautions

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof covering material. Carlisle will not be responsible for specific building and roof design, deficiencies in construction or workmanship, dangerous conditions on the jobsite, or improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice.

Typical Properties and Characteristics

Physical Property	EcoStorm VSH
Thickness, Nominal	½" (13 mm)
Pieces Per Unit (4' x 8')	30
Weight, Nominal, LBS/SF	2.0
Compressive Strength, Nominal PSI	3,990 PSI
Flute Spanability	5"
Permeance – ASTM E96 (perm)	< 1
Mold Resistance – ASTM D3273	10
Toxicity (VOCs)	Zero VOCs
Water Absorption, % max, ASTM C473	3.9
Surface water absorption, grams, ASTM C473	2.8

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.

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LEED® Information

Post-consumer Recycled Content	100%
Manufacturing Location	Des Moines, IA