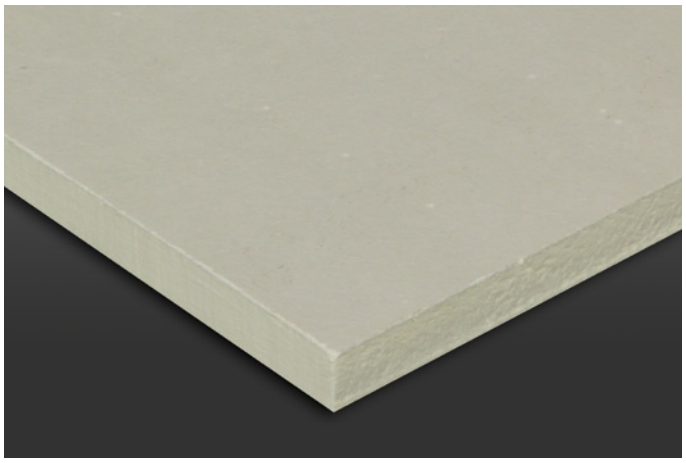
# SecurShield® HD Plus Polyiso



## Overview

Versico's SecurShield HD Plus Polyiso Insulation is an FM-approved, ½"-thick, high-density polyiso insulation panel specifically designed for use as a cover board in fully adhered systems. Suitable for both re-roofing and new construction applications, this product is manufactured on-line using premium-performance coated glass facers with a scrim on the bottom. SecurShield HD Plus delivers an R-value of 2.5, which is significantly higher than roof cover boards made with other materials such as wood fiber or gypsum.

## Features and Benefits

- Industry-leading 8 fasteners per 4' x 8' board needed to meet Factory Mutual (FM) 1-90
- Exceptional protection against hail, rooftop traffic, mold, and moisture
- High-density formulation achieves FM severe hail rating (SH)
- 5 times higher R-value than and ⅕ the weight of gypsum cover boards
- 2 times higher R-value than wood fiber boards
- Lightweight and easy to cut, handle, and install
- Can be installed in corners and perimeters per FM requirements
- Coated glass facer provides strong bond for adhered roofing applications

## Sustainable Attributes

Versico Roofing Systems' focus has always been innovation — innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Highest R-value per inch providing maximum energy savings and $CO_2$ emissions avoidance
- CDPH Compliant for maximum allowable concentrations of target VOCs
- Versico Polyiso Roof Insulation and HD Cover Board EPDs available
- Contributes to LEED® and Green Globes certification requirements
- End-of-life jobsite disposal options are available for re-use/re-purposing
- HFC- and HCFC-free formulation

## Installation

### Mechanically Attached Single-Ply Systems

Each SecurShield HD Plus panel must be secured to the substrate with approved Versico fasteners and plates. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico specifications.

### Fully Adhered Single-Ply Systems

SecurShield HD Plus may be secured to the roof deck using Versico's Flexible DASH Adhesive, fasteners and plates, or hot asphalt (appropriate to the deck type). For adhesive coverage or fastening patterns and requirements, please contact Versico's Design Services group. Butt the edges of the insulation panels and stagger the joints. Be certain to install boards with the proper side down, as indicated on each board. Install the membrane according to Versico specifications.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

VERSICO ROOFING SYSTEMS

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## 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. SecurShield HD Plus is not compatible with hot mop asphalt or ballasted systems. Versico will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the jobsite or for 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. Call Versico for more specific details or refer to PIMA Technical Bulletin No. 109: Storage and Handling Recommendations for Polyiso Roof Insulation.

## Codes and Compliances

- ASTM C1289, Type II, Class 4, Grade 1 (109 psi max.)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)
- FM Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNav)
- California Codes of Regulations, Title 24, Insulation Quality Standard License #TI-1418
- CAN/ULC S704, Type 3, Class 2
- Florida Building Code Approval

## Typical Properties and Characteristics

| Property | Test Method | Value |
|---|---|---|
| Compressive Strength | ASTM D1621 | 109 psi max |
| Dimensional Stability | ASTM D2126 | <0.5% linear change (7 days) |
| Water Absorption | ASTM C209 | <1% volume |
| R-value | ASTM C518 | 2.5 |
| Thickness | | ½" (13 mm) |
| Panel Thickness | | ½" (13 mm) |
| Panel Sizes | | 4' x 8' (1220 mm x 2440 mm)<br>4' x 4' (1220 m x 1220 mm) |
| Weight | | 0.406 lbs/sq ft<br>13 lbs (5.9 kg) per 4' x 8' panel<br>6.5 lbs (2.9 kg) per 4' x 4' panel |
| Service Temperature | | 260°F or less (126°C or less) |
| Resistance to Mold | ASTM D3273 | Passed |
| Flute Spanability | FM 4451 | 5.25" |

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 | 9% |
| Post-consumer Recycled Content | 0% |
| Manufacturing Locations | Smithfield, PA<br>Tooele, UT |
| Solar Reflectance Index (SRI) | N/A |

CLASSIFIED C UL US

Foamed plastic as roof deck construction material with resistance to an internal fire exposure only for use in construction no.(s) 120 and 123. See UL Directory of Products Certified for Canada and UL Roofing Materials and Systems Directory. 99DL.



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