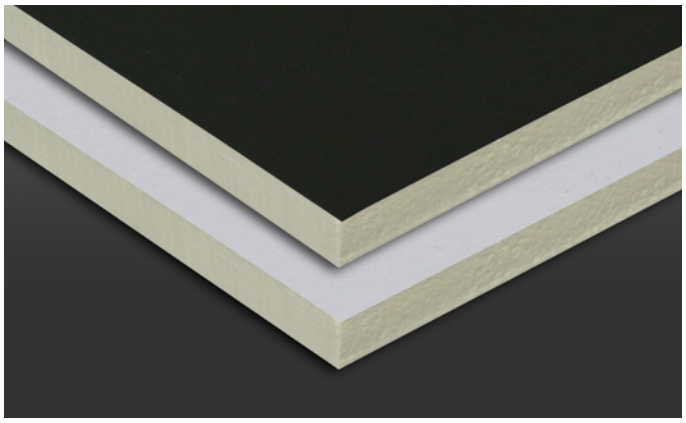
SecurShield® HD NH Polyiso Insulation



Overview

Versico's SecurShield HD NH Polyiso Insulation is a high-performance rigid roof insulation panel composed of a high-density, closed-cell polyisocyanurate (polyiso) foam core bonded during the manufacturing process to premium-performance coated glass facers (CGF). Suitable for both new construction and re-roofing applications, SecurShield HD NH is specifically designed for use as a cover board over a wide variety of substrates. It's LBC "Red List Free" and contains zero halogenated flame retardants, supporting sustainable and health-conscious building goals without compromising performance. The panel delivers an R-value of 2.1, which is significantly higher than traditional roof cover boards made from materials such as gypsum or wood fiber.

Features and Benefits

- Living Building Challenge "Red List Free" – Declare Label
- Contains zero Halogenated flame retardants
- Lightweight and easy to cut, handle, and install – no crumbling of material
- Achieves a UL Class A direct to combustible deck rating – Maximum roof slope – 1":12"
- Exceptional protection against hail, rooftop traffic, mold, and moisture
- High-density formulation achieves FM severe hail rating (SH)
- 2x higher R-value than wood fiber boards
- 5x higher R-value than and ⅕ the weight of gypsum cover boards
- 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.

- Zero ozone-depleting components, HFC- and HCFC-free formulation
- CDPH Compliant for maximum allowable concentrations of target VOCs
- 8.2% pre-consumer recycled content by weight
- Contributes to LEED® and Green Globes certification requirements
- End-of-life jobsite disposal options available for re-use/ re-purposing

Declare.

NH Polyiso Board Insulation
Versico Roofing Systems

Final Assembly: Montgomery, New York, USA; Puyallup, Washington, USA
Life Expectancy: 60 Year(s)
End of Life Options: Salvageable/Reusable in its Entirety, Take Back Program (Rooftop Recycling Program), Landfill

Ingredients:

MDI (isocyanate): Diphenylmethane-diisocyanate; Polyol: Polyol; Facer: Cellulose Pulp; Glass, oxide, chemicals; Blowing Agent: Pentane; Catalyst: Potassium-2-Ethylhexanoate; Surfactant: Propylene glycol

Living Building Challenge Criteria:

I-13 Red List:
■ LBC Red List Free
□ LBC Red List Approved
□ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Compliant
I-14 Responsible Sourcing: Not Applicable

VSO-0001
EXP. 01 OCT 2026
Original Issue Date: 2017

INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

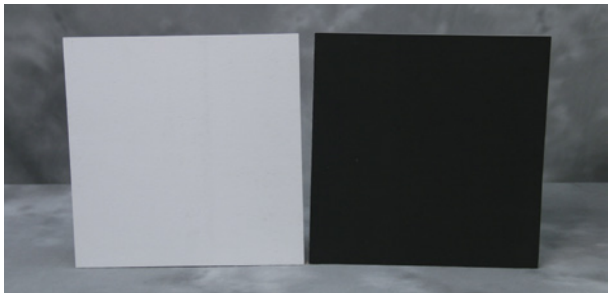
Allows the contractor to speed up or slow down adhesive flash-off time

ReadyFlash TECHNOLOGY

Increases surface temperature of the dark facer up to 50°F above ambient temperature

Decreases surface temperature of the light facer up to 10°F below ambient temperature

Provides up to 2x faster adhesive flash-off on cooler days and up to 4x faster on warmer days when utilizing the dark facer



VERSICO ROOFING SYSTEMS

SecurShield HD NH Polyiso Insulation

- Versico Polyiso Roof Insulation and HD Cover Board EPDs available
- PIMA Quality Mark℠ Certification Program participant for Long-Term Thermal R-values (LTTR)
- Highest R-value per inch providing maximum energy savings and CO^2 emissions avoidance

Polyiso Eco Ready (Optional)

- 5% bio-content option available (for 2.0" and 2.6" thicknesses)
- Contributes to carbon reduction initiatives via mass balance approach under ISCC PLUS compliance

Product Characteristics

- Panel sizes:
  - 4' x 8' (1220 mm x 2440 mm)
  - 4' x 4' (1220 mm x 1220 mm)
- Panel thickness: ½" (13 mm)
- Weight: 0.343 lbs/sq. ft.
  - 11 lbs (4.99 kg) per 4' x 8' panel
  - 5.5 lbs (2.49 kg) per 4' x 4' panel

Installation

Mechanically Attached Single-Ply Systems

Each SecurShield HD NH 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

Versico's SecurShield HD NH may be secured to the roof deck using Versico's Flexible DASH™ adhesive, fasteners and plates. 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. Install the membrane according to Versico specifications.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

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 NH is not compatible with hot mop asphalt or ballasted systems. Versico will not be responsible for specific building and roof design, 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

- Meets the requirements of ASTM C1289, Type II, Class 4, Grade 1 FM Approved. Refer to RoofNav.com for approved assemblies
- UL Classified in accordance with ANSI/UL 790, 263, and 1256. Refer to UL Product iQ for specific assemblies.

Typical Properties and Characteristics

Physical 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	2.1
Thickness		½"
Service Temperature		260°F (126°C) or less
Resistance to Mold	ASTM D3273	Passed

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.

CLASSIFIED UL

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.

FM APPROVED

ISCC International Sustainability & Carbon Certification

U.S. GREEN BUILDING COUNCIL

VERSICO ROOFING SYSTEMS

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

800.992.7663 • www.versico.com

© 2026 Versico. Printed in U.S.A.
VE-19460 - "SecurShield HD NH Technical Data Bulletin" - 09.25.26

US PATENT NUMBER: 10,662,652
Versico, DASH, and the Versico logo are trademarks of Versico. SecurShield and ReadyFlash are trademarks of Carlisle Construction Materials, LLC. LEED is a registered trademark of the U.S. Green Building Council.