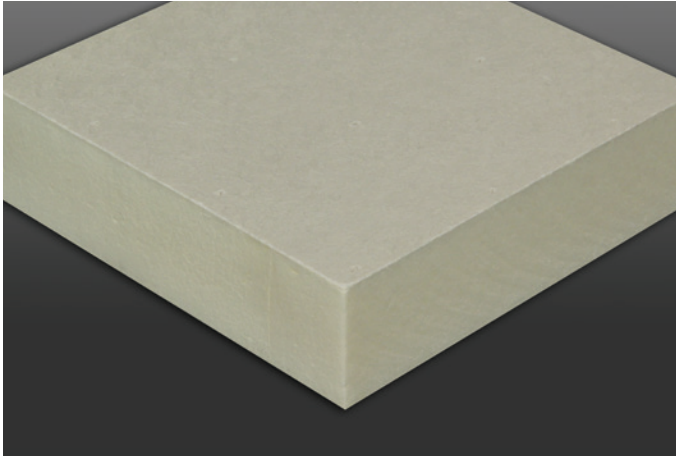


SecurShield™ POLYISO

Insulation



Overview

SecurShield Polyiso is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded during the manufacturing process to premium performance coated glass facers (CGF).

Features and Benefits

- » Achieves a UL Class A combustible deck rating at a 1" thickness without the use of a fire-rated slip sheet or the presence of a gypsum coverboard – *Maximum roof slope - ½":12"
- » Premium facer improves fire resistance, moisture resistance and dimensional stability
- » Superior bond to the foam core enhances wind-uplift performance
- » Highest R-value per inch of commercially available insulation
- » Zero ozone-depleting components, CFC free and HCFC free

Panel Characteristics

- » Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels in thickness of ½" (13 mm) to 4.0" (102 mm)

Installation

Mechanically Attached Single-Ply Systems

Each SecurShield panel must be secured to the roof deck with fasteners and plates (appropriate to the deck type.) Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Carlisle's specifications.

Fully Adhered Single-Ply

Each SecurShield panel must be secured to the roof deck with fasteners and plates (appropriate to the deck type.) Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Carlisle's specifications.

SecurShield 4' x 8' panels can be secured to the roof deck with Carlisle's FAST™ adhesive technology, with either full coverage or bead spacing of no less than 6" on center.

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 material. Protect installed product from excessive foot traffic. Carlisle 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 Carlisle for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

SecurShield POLYISO

Insulation

SecurShield Thermal Values

Thickness (inches)	Thickness (MM)	LTTR R-value	Flute Spanability
0.50	13	2.8	2 5/8"
1.00	25	5.7	2 5/8"
1.50	38	8.6	4 3/8"
2.00	51	11.4	4 3/8"
2.50	64	14.4	4 3/8"
3.00	76	17.4	4 3/8"
3.50	89	20.5	4 3/8"
4.00	102	23.6	4 3/8"
4.50	114	26.8	4 3/8"

Codes and Compliances

- » ASTM C1289, Type II, Class 2, Grade 2 (20 psi), Grade 3 (25 psi)
- » 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 RoofNavSM)
- » California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1418
- » Third-party certification with the PIMA Quality Mark for Long-Term Thermal Resistance (LTTR) values
- » CAN/ULC S704, Type 2, Class 2
- » Florida Building Code Approval

NOTE: Please be aware the Federal Specification HH-I-1972/GEN has been replaced.

Typical Properties and Characteristics

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621 ASTM C1289	20 psi* minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E96	< 1 perm (57.5ng/(Pa•s•m2))
Water Absorption	ASTM C209	< 1% volume
Service Temperature		-100° to 250° F (-73°C to 122°C)

*Also available in 25 PSI Minimum, Grade 3

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.



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.

