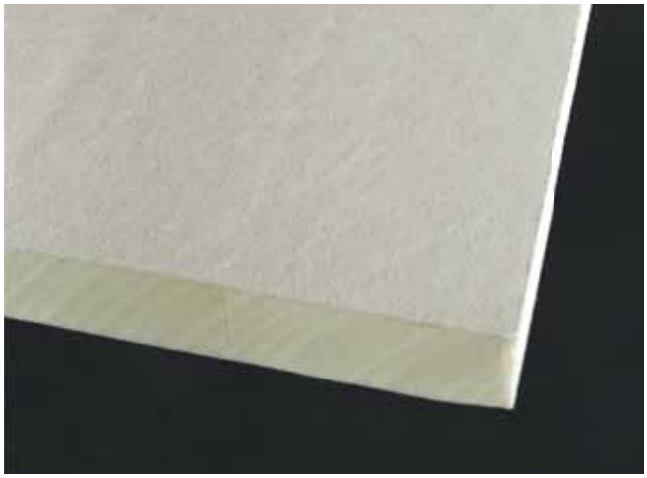
CARLISLE'S

SecurShield™ CD

(COMBUSTIBLE DECK)



Overview

SecurShield CD is a rigid roof insulation panel composed of a closed-cell polyisocyanurate foam core manufactured on-line to an extra durable, dimensionally stable coated-glass facer on each surface side.

Features and Benefits

- Achieves a UL Class A combustible deck assembly 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 facer adhesion to the foam core
- Highest R-value per inch of commercially available insulation
- Zero ozone-depleting components, CFC-free, HCFC-free, EPA-compliant and nearly zero global warming potential (GWP)

SecurShield CD Thermal Values

Thickness (inches/mm)	LTTR Value*	Flute Spanability
1/25.4	6.00	2⅝"

* Long Term Thermal Resistance Foam Core Values are based on ASTM C1289 and CAN/ULC S770 which provides for a 15-year time-weighted average. All PIMA members have adopted this advanced standard for R-values measurement as of 1/1/03.

Installation

Mechanically Attached Single-ply Systems

Each SecurShield CD 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 Systems

Each SecurShield CD 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 CD 4' x 8' panels can be secured to the roof deck with Carlisle's FAST™ Adhesive technology.

Panel Characteristics

- Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels in a thickness of 1" (25.4 mm)
- 9 lbs per 4' x 8' panel
- ASTM-C 1289, Type II, Class 2, Grade 2 (20 psi), Grade 3 (25 psi)
- UL Classified for Class A

Code Approvals

- ASTM-C 1289, Type II, Class 2, Grade 2 (20 psi), Grade 3 (25 psi)
- International Building Code (IBC) Section 2603

  NOTE: Please be aware the Federal Specification HH-1-1972/GEN has been replaced

Underwriters Laboratories, Inc.

- Insulated metal deck assemblies – UL 1256 (nos. 120, 123, 292)
- Component of Class A roof systems. Built-up, modified bitumen and single-ply (ballasted, mechanically attached & fully adhered) (UL 790)
- SecurShield classified by ULC – Refer to directory of products for details

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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 material. 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 CD

Typical Properties and Characteristics*

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°F to 260°F (-73°C to 126°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 or specification range for any particular property of this product.

LEED® Info

Manufacturing Location(s)	Tooele, UT
Pre-consumer Recycled Content	0
Post-consumer Recycled Content	0
Energy and Atmosphere	Minimum Energy Performance Optimize Energy Performance
Material and Resources	Construction Waste Management Local and Regional Materials Recycled Content Material Reuse

Other Polyiso Products by Carlisle

- Flat and Tapered SecurShield – Polyiso bonded to glass fiber mat
- Flat and Tapered HP-H – Polyiso bonded to fiber- reinforced facers
- HP-F – Polyiso bonded to foil
- HP-NB – Polyiso bonded to Oriented Strand Board
- ½" SecurShield HD – ½" Polyiso coverboard
- SecurShield HD Composite – Polyiso bonded on-line to ½" SecurShield HD Coverboard

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