

SecurShield® HD RL™ POLYISO

RapidLock Insulation



Overview

Carlisle's RapidLock (RL) Roofing System is a revolutionary membrane attachment method that provides a fully adhered system without the use of adhesives. RapidLock is a hook and loop attachment system powered by VELCRO® Brand Securable Solutions. Carlisle's insulation boards act as the hook while the FleeceBACK membranes act as the loop, creating the industry's first adhesive less, fully-adhered attachment system.

Carlisle's SecurShield HD RapidLock Polyiso is a rigid roof insulation panel composed of a high-density, closed-cell polyisocyanurate foam core laminated to a premium-performance, coated glass mat facer (CGF). RapidLock provides a fully-adhered roofing system without VOCs or installation temperature restrictions.

Features and Benefits

- » Allows for adhesiveless membrane attachment
- » Exceptional protection against hail, rooftop traffic, mold, and moisture
- » ASTM C1289, Type II, Class 4, Grade 1 (109 psi max.)

Productivity Boosting Features and Benefits:

- » Lightweight and easy to cut, handle, and install - no crumbling of material
- » 5 times higher R-value than gypsum cover boards
- » 1/3 the weight of gypsum cover boards



Panel Characteristics

- » Panel size: 4' x 8' (1220 mm x 2440 mm)
- » Panel thickness: 1/2" (13 mm)
- » Weight: 0.384 lbs/sq. ft.; 12.3 lbs (5.58 kg) per 4' x 8' panel

Installation

RapidLock Attachment System

SecurShield HD RL shall be secured to the roof deck with plates and fasteners (appropriate to deck type) or Carlisle's FAST™ or Flexible FAST Adhesive. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Carlisle's specifications. A broom or blower must be used to ensure that the RapidLock facer is free of dust, dirt, and debris prior to installing the appropriate RapidLock membrane. **SecurShield HD RL is ONLY compatible with Carlisle's RapidLock membrane.**

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. Call Carlisle 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
- » Third-party certification with PIMA Quality Mark for Long-Term Thermal Resistance (LTTR) values
- » CAN/ULC S704, Type 3, Class 2
- » Florida Building Code Approval

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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	2.5
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.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	9%
Manufacturing Locations	Montgomery, NY Puyallup, WA
Solar Reflectance Index (SRI)	N/A