

# InsulBase® RL™ POLYISO

## RapidLock (RL) 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 InsulBase RapidLock Polyiso is a rigid roof insulation panel composed of a high-density, closed-cell polyisocyanurate foam core bonded on each side to fiber-reinforced facers (GRF). RapidLock provides a fully-adhered roofing system without VOCs or Installation Temperature Restrictions.



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### Features and Benefits

- » Allows for adhesiveless membrane attachment
- » InsulBase RL polyiso insulation provides the highest R-value per inch of commercially available roofing insulation products
- » Environmentally friendly construction with 0% ozone-depleting components and CFC free
- » Approved for direct application to steel decks

### Panel Characteristics

- » Panel size: 4' x 8' (1220 mm x 2440 mm)
- » Panel thickness: 2" (51 mm)
- » Weight: 0.397 lbs/sq. ft.; 12.7 lbs (5.77 kg) per 4' x 8' panel
- » R-Value = 11.4

### Installation

#### RapidLock Attachment System

InsulBase RL must 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. **InsulBase 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. 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 job site 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.

### InsulBase Codes and Compliances

- » ASTM C1289, Type II, Class 1, Grade 2 (20 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 5704, Type 2 & 3, Class 2
- » Florida Building Code Approval

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### Typical Properties and Characteristics (ASTM C1289)

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621	20 psi* minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E96	<1 perm (57.5 ng/(Pa•s•m <sup>2</sup> ))
Water Absorption	C1763	<1% volume

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.

\* Polyiso Foam Core only



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.




**PIMA QualityMark**  
The Certified ITR-value