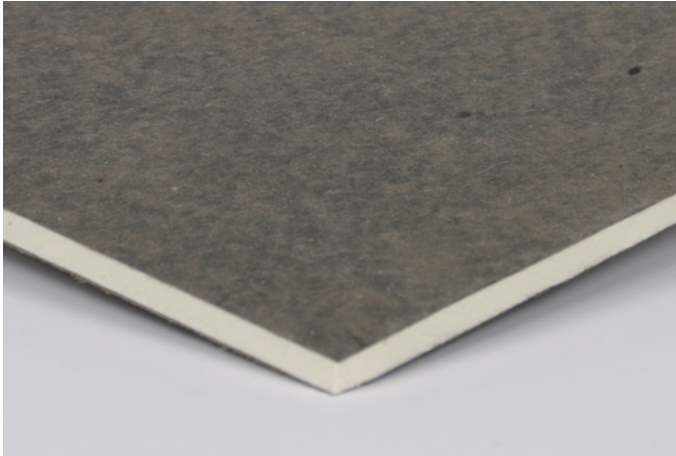


InsulBase[®] HD POLYISO

Insulation



Overview

InsulBase HD is a rigid-roof insulation cover board composed of a high-density closed-cell polyisocyanurate foam core bonded on each side to glass-reinforced felt (GRF). Suitable for both re-roofing and new construction applications, InsulBase HD is specifically designed for use as a cover board in mechanically-attached single-ply systems only. InsulBase HD delivers an R-value of 2.5 and a compressive strength of 80 psi.

Features and Benefits

- » High-density insulating cover board
- » 80 psi compressive strength
- » Exceptional protection against hail and rooftop traffic
- » Higher R-value than wood fiber and gypsum cover boards
- » For use on mechanically-attached and induction-welded single-ply roofing systems only
- » Environmentally friendly construction with 0% ozone-depleting components and CFC free

Productivity Boosting Features and Benefits:

- » Lightweight and easy to cut, handle, and install — no crumbling of material
- » Five times higher R-value than gypsum cover boards
- » ½ the weight of gypsum cover boards



Sustainable Attributes

Carlisle SynTec Systems' focus has always been innovation – Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Carlisle 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
- » 39.5% recycled content by weight (21.0% post-consumer/18.5% pre-consumer)
- » Contributes to LEED[®] and Green Globes certification requirements
- » End-of-life jobsite disposal options available for re-use/re-purposing
- » Carlisle 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 CO₂ 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

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)

Applications

- » Mechanically Attached Single-Ply Roof Systems Only

Installation

Mechanically Attached Single-Ply Systems

InsulBase HD panels 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.

Review Carlisle specifications and details for complete installation information.

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Insulation

Codes and Compliances

- » ASTM C1289, Type II, Class 1, Grade 3 (25 psi min)
- » 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
- » CAN/ULC 5704, Type 2 & 3, Class 3


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 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.

Typical Properties and Characteristics (ASTM C1289)

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621 (modified)	80 psi (138 kPa, Grade 3)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E96	<1.5 perms (57.5 ng/(Pa•s•m ²))
Water Absorption	C1763	<3% 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.



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.

