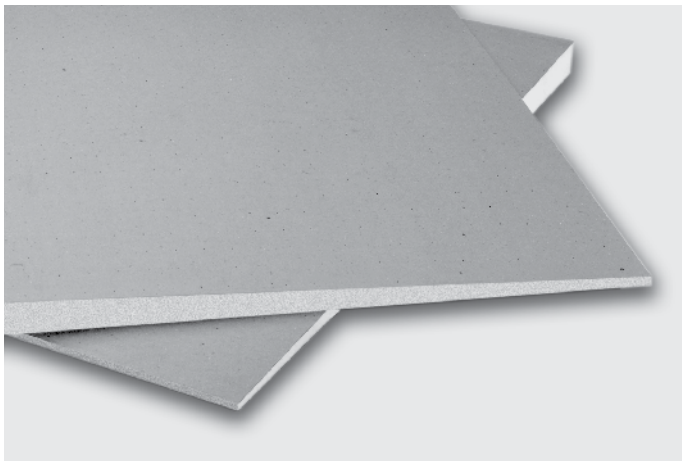
InsulBase® Tapered NH POLYISO
Insulation



Overview

InsulBase Tapered NH Polyiso Insulation is an LBC “Red List Free” rigid roof insulation panel composed of a closed-cell polyisocyanurate foam core bonded on each side to glass-reinforced felt (GRF). InsulBase Tapered NH contains zero halogenated flame retardants.

Features and Benefits

- Contains zero halogenated flame retardants
- InsulBase Tapered NH Polyiso Insulation provides the highest R-value per inch of commercially available insulation products
- Environmentally friendly construction with 0% ozone-depleting components and CFC free

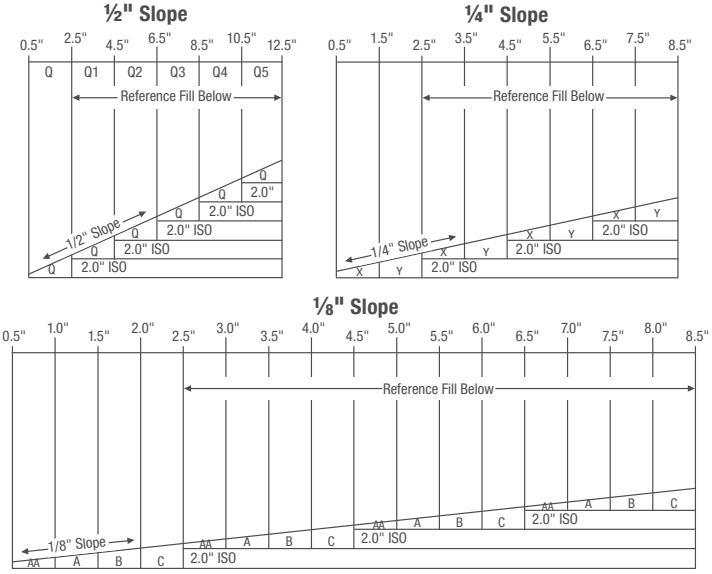
Panel Characteristics

- 4' x 4' (1220 mm x 1220 mm) and 4'x8' (1220 mm x 2440 mm) panels in thicknesses of .5" (13 mm) minimum to 4.5" (114 mm) maximum in a single layer
- Available slopes are ⅛" (3 mm), ¼" (6 mm), ⅜" (10 mm) and ½" (13 mm) per foot

Applications

- Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)

Standard Panel Profiles



CARLISLE SYNTEC SYSTEMS

InsulBase Tapered NH POLYISO
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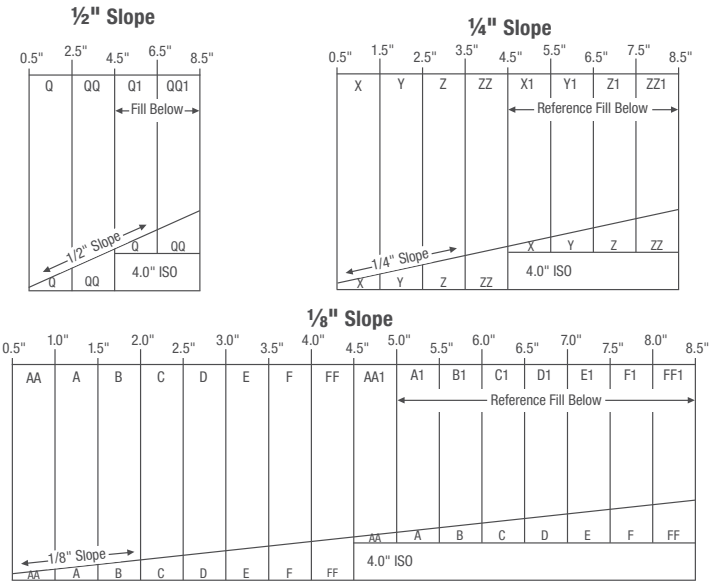
Extended Panel Profiles



Installation

Ballasted Single-Ply Systems

Each InsulBase Tapered panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Carlisle's specifications.

Mechanically Attached & Adhered Single-Ply Systems

Secure each InsulBase Tapered panel to the roof deck with Carlisle's Flexible FAST® adhesive or the appropriate plate and fastener. 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.

Codes and Compliances

- ASTM C1289, Type II, Class 1, 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)
- CAN/ULC S704, Type 2 & 3, Class 2
- Third-party certification with the PIMA Quality Mark for Long-Term Thermal Resistance (LTTR) values
- FM Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNav SM)
- Florida Building Code Approval FI#1296
- Miami-Dade County, Florida Noa No: 04-1018.01

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.

Typical Properties and Characteristics

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621 ASTM 1289	20 psi* minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E96 12.10	<1 perm (57.5 ng/(Pa•s•m^2))
Water Absorption	ASTM C209	<1% volume
Service Temperature		-100°F to 250°F (-73°C to 122°C)

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.

CLASSIFIED C UL US

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.

U.S. GREEN BUILDING COUNCIL

PIMA QualityMark℠ The Certified LTTR-value