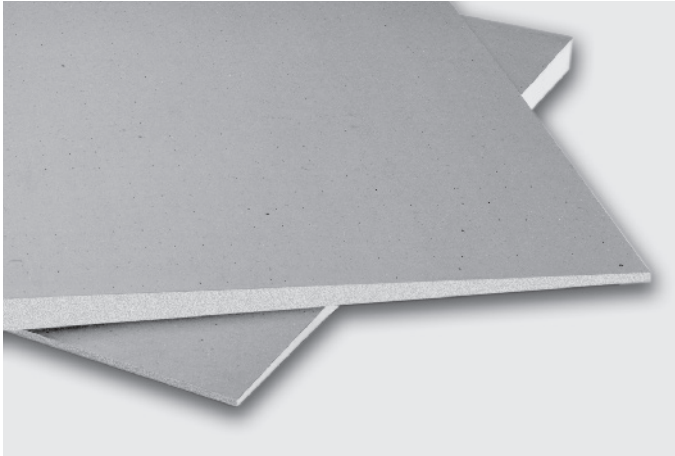


InsulBase® Tapered POLYISO Insulation



Overview

InsulBase Tapered is a sloped rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded to glass reinforced felt (GRF) facers.

Features and Benefits

- » InsulBase tapered 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.
- » Approved for direct application to steel decks.

Panel Characteristics

- » Available in 4' x 4' (1220 mm x 1220 mm) in thickness of 1/2" (12 mm) minimum to 4.5" (115 mm) maximum
- » Available slopes are 1/8" (3 mm), 1/4" (6 mm), 3/8" (10 mm) and 1/2" (12 mm) per foot

Applications

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

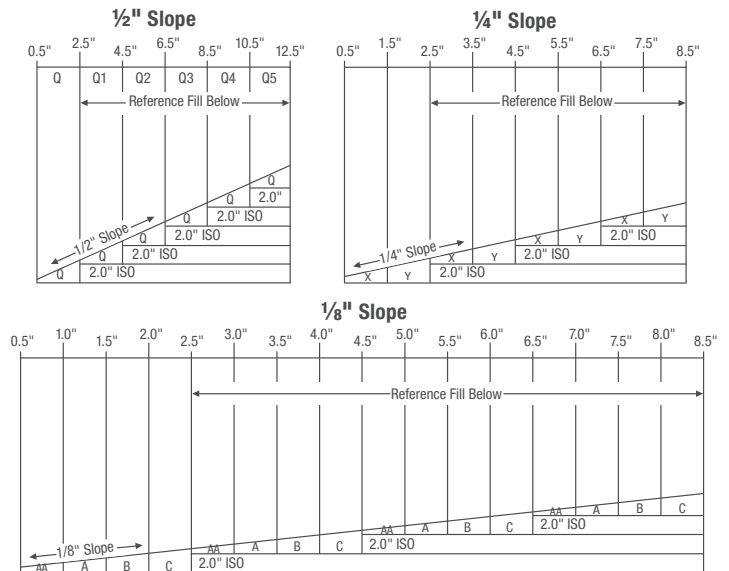


Sustainable Attributes

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.

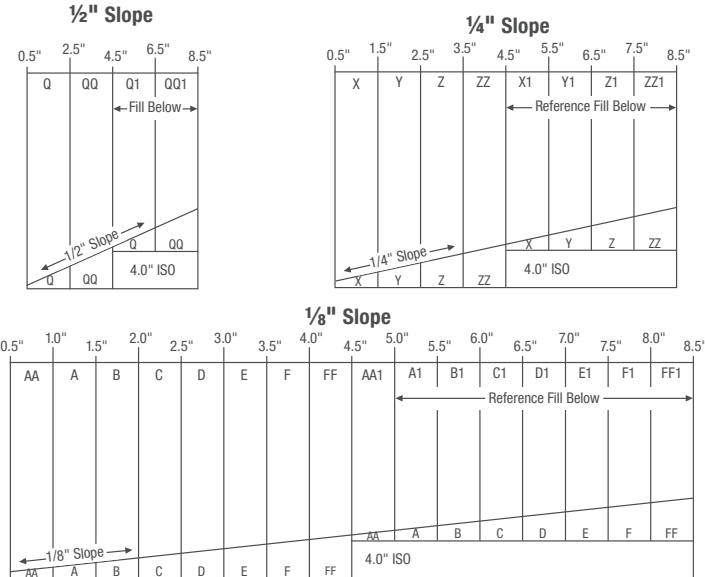
- » Highest R-value per inch providing maximum energy savings and CO² emissions avoidance
- » PIMA Quality Mark^{CM} Certification Program participant for Long-Term Thermal R-values (LTTR)
- » CDPH Compliant for maximum allowable concentrations of target VOCs
- » Carlisle Polyiso Roof Insulation and HD Cover Board EPDs available
- » Contributes to LEED and Green Globes certification requirements
- » End-of-life jobsite disposal options are available for re-use/ re-purposing
- » Zero ozone-depleting components, HFC- and HCFC-free formulation

Standard Panel Profiles



InsulBase Tapered POLYISO Insulation

Extended Panel Profiles



- » FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNavSM)
- » FLORIDA BUILDING CODE APPROVAL FL#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.

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

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.

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.

