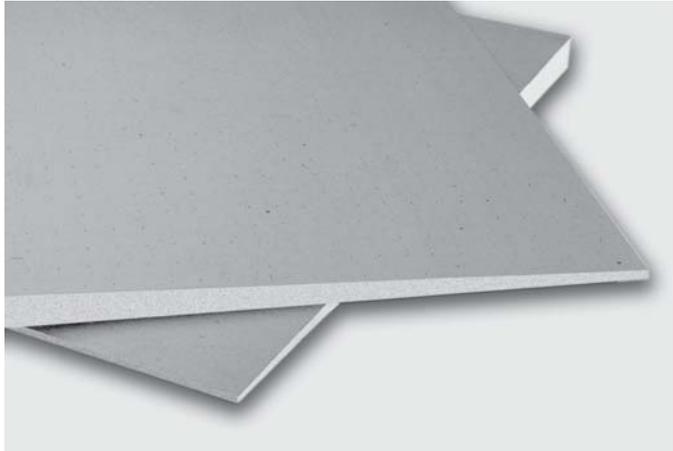


HP-H Tapered Polyiso



Overview

HP-H Tapered is a sloped rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded during the manufacturing process to fiber reinforced paper facers. Tapered systems are designed to promote positive drainage and prevent ponding water. Contact Carlisle's Tapered Systems Group for design assistance.

Features and Benefits

- » HP-H 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.

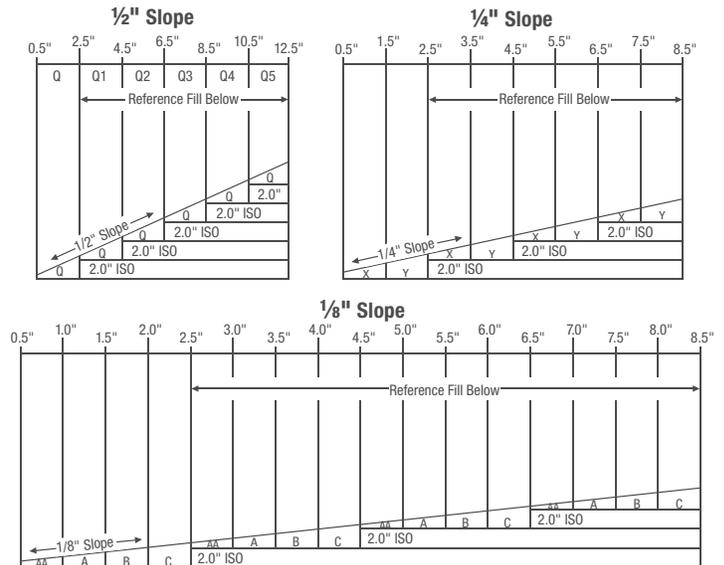
Panel Characteristics

- » Available in 4' x 4' (1220 mm x 1220 mm) in thickness of 1/2" (12 mm) minimum to 4.5" (115 mm) maximum in a single layer
- » Available slopes are 1/16" (2 mm), 1/8" (3 mm), 3/16" (5 mm), 1/4" (6 mm), 3/8" (10 mm) and 1/2" (12 mm) per foot
- » Available in two grades of compressive strengths per ASTM C1289-06a, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)

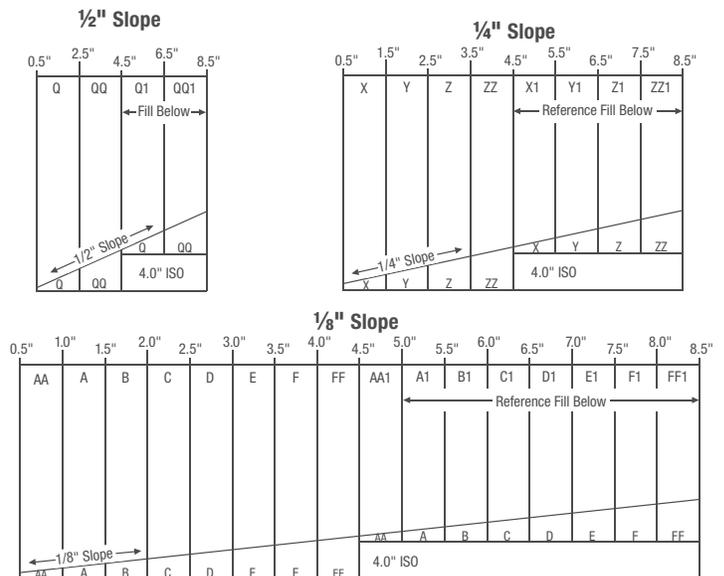
Applications

- » Constructions requiring FM Class 1 and UL Class A ratings
- » Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)

Standard Panel Profiles



Extended Panel Profiles



Installation

BALLASTED SINGLE-PLY SYSTEMS

Each HP-H 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.

HP-H Tapered Polyiso

MECHANICALLY ATTACHED & FULLY ADHERED SINGLE-PLY SYSTEMS

Each HP-H Tapered panel must be secured to the roof deck with fasteners and plates (appropriate to deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Carlisle's specifications.

For fully adhered single-ply, HP- H Tapered 4' x 8' panels can be secured to the roof deck with Carlisle's FAST[®] Adhesive, either full coverage or bead spacing of no less than 6" on center.

Review Carlisle specifications and details for complete installation information.

HP-H Tapered Codes and Compliances

- » ASTM C1289-06, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)
- » International Building Code (IBC) Section 2603

NOTE: Please be aware the Federal Specification HH-I-1972/GEN has been replaced.

Underwriters Laboratories, Inc.

- » Component of Class A Roof Systems (UL 790)
- » Hourly Rated P series roof assemblies (UL 263) P 225, 230, 259, 302, 303, 508, 510, 514, 519, 701, 710, 713, 717, 718, 719, 720, 722, 723, 727, 728, 729, 730, 732, 734, 735, 739, 741, 742, 743, 819, 824, 827, 828
- » Insulated metal deck assemblies - (UL 1256) nos. 120, 123, 292
- » HP-H Tapered classified by ULC

Factory Mutual Research

- » FM Class 1 approval for steel roof-deck constructions, (FM 4450)
- » FM 4470
(Subject to the conditions of approval described in Roofnav.com)
- » 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.

Typical Properties and Characteristics

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621 ASTM 1289-05a	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.

Other Polyiso Products by Carlisle

- » Flat and Tapered SecurShield™ – Polyiso bonded to coated glass facers
- » Flat Polyiso bonded to fiber-reinforced paper facers
- » HP-F – Polyiso bonded to foil
- » HP-NB – Polyiso bonded to Oriented Strand Board
- » SecurShield HD – ½" Polyiso coverboard, 100 PSI
- » SecurShield HD Composite – Polyiso bonded on-line to ½" SecurShield HD Coverboard
- » SecurShield HD Plus – ½" Polyiso coverboard, 100 PSI – FM 1-90 with reduced fastening
- » SecurShield CD – 1" Class A Polyiso on a combustible deck

