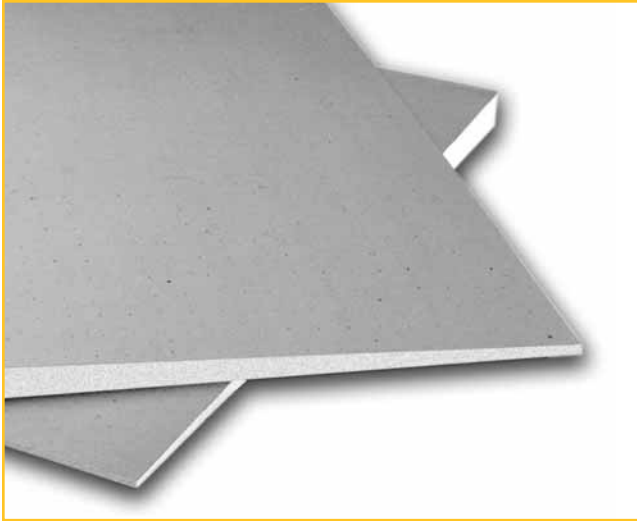


CARLISLE HP-H TAPERED POLYISO



PRODUCT DESCRIPTION

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 facers. HP-H Tapered is designed to promote positive drainage and prevent ponding water. For best results, use Carlisle's Tapered Shop Drawings.

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

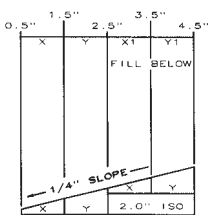
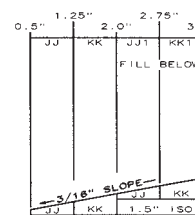
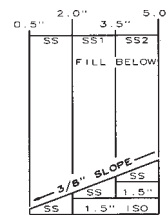
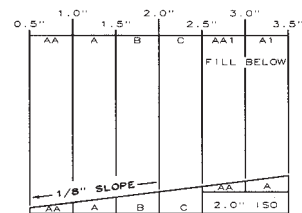
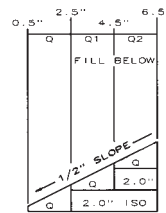
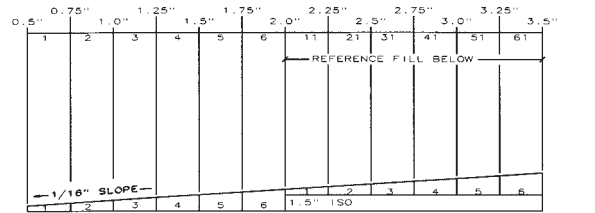
- Available in 4'x4' (1220mm x 1220mm) in thickness of 1/2" (12mm) minimum to 4.0" (102mm) maximum in a single layer
- Available slopes are 1/16" (2mm), 1/8" (3mm), 3/16" (5mm), 1/4" (6mm), 3/8" (10mm) and 1/2" (12mm) per foot.
- Available in two grades of compressive strengths per ASTM C1289-06a, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)

APPLICATIONS

- Constructions requiring FM Class 1 and UL Class A ratings

Investing in Roofing Solutions for Over 40 Years

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

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 the manufacturer's specifications.

MECHANICALLY ATTACHED SINGLE-PLY SYSTEMS

- Each HP-H Tapered panel 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 the manufacturer's specifications.

FULLY ADHERED SINGLE PLY

- 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 manufacturer's specifications.
- HP-H Tapered 4' x 8' panels can be secured to the roof deck with Carlisle's FAST adhesive technology.

CARLISLE HP-H TAPERED POLYISO

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



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.



WARNINGS AND LIMITATIONS

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. 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 PHYSICAL PROPERTY DATA CHART POLYISO FOAM CORE ONLY

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM D 1621 ASTM 1289-05a	20 psi* minimum (138kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E 96	< 1 perm ((57.5ng/(Pa·s·m ²)))
Water Absorption	ASTM C 209	< 1% volume
Flame Spread (foam core)	ASTM E 84	< 50
Service Temperature		-100° to 250° F (-73)C to 122°C)

* Also available in 25 psi minimum, Grade 3

OTHER POLYISO PRODUCTS BY CARLISLE:

- SECURSHIELD POLYISO BONDED TO COATED GLASS FACER
- HP-CG POLYISO BONDED TO COATED GLASS FACER
- HP-F POLYISO BONDED TO FOIL
- HP-H FLAT POLYISO
- HP-NB POLYISO BONDED TO ORIENTED STRAND BOARD
- HP-WF POLYISO BONDED TO WOOD FIBERBOARD
- TAPERED HP-CG TAPERED POLYISO BONDED TO COATED GLASS FACER
- TAPERED HP-WF TAPERED POLYISO BONDED TO WOOD FIBERBOARD

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