

VERSICO'S MP-H POLYISO



Overview

MP-H is a rigid roof insulation panel composed of a closed-cell polyisocyanurate foam core bonded on each side to fiber-reinforced facers.

Features and Benefits

- MP-H 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) and 4' x 8' (1220 mm x 2440 mm) panels in thickness of 1" (25 mm) to 4.0" (102 mm)
- Available in two grades of compressive strengths per ASTM C1289-05a, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)



MP-H THERMAL VALUES

Thickness (Inches)	(mm)	LTTR R-Value*	Flute Spanability
1.00"	25	6.00	
1.50"	38	9.00	2 5/8"
1.60"	41	9.60	4 3/8"
1.70"	43	10.30	4 3/8"
1.80"	46	10.90	4 3/8"
2.00"	51	12.10	4 3/8"
2.50"	64	15.30	4 3/8"
2.70"	69	16.60	4 3/8"
3.00"	76	18.50	4 3/8"
3.10"	79	19.10	4 3/8"
3.30"	84	20.40	4 3/8"
3.50"	89	21.70	4 3/8"
3.60"	91	22.40	4 3/8"
3.70"	94	23.00	4 3/8"
4.00"	102	25.00	4 3/8"

* Long-term Thermal Resistance Foam Core Values are based on ASTM C1289-06 and CAN/ULC S770 which provides for a 15-year time weighted average. All PIMA members have adopted this advanced standard for R-values measurement as of 01/01/03.

Applications

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

Installation

BALLASTED SINGLE-PLY SYSTEMS

Each MP-H 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 MP-H 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.

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

Versico, PO Box 1289, Carlisle, PA 17013
Tel: **800.992.7663** Fax: 717.960.4036 Web: **www.versico.com**

FULLY ADHERED SINGLE-PLY SYSTEMS

Each 4' x 4' MP-H panel may be secured to an approved substrate with fasteners and plates (appropriate to deck type) or adhered with Versico's DASH™ Adhesive. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to manufacturer's specifications.

MP-H 4' x 8' panels must be secured to an approved substrate using Versico fasteners and plates (appropriate to deck type).

MP-H 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.

**FLORIDA BUILDING CODE APPROVAL FL#1296
MIAMI-DADE COUNTY, FLORIDA NOA NO: 04-10118.01**

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, 818, 819, 824, 827, 828
- Insulated metal deck assemblies - (UL 1256) (nos. 120, 123, 292)
- H-Shield classified by ULC
- R18846

TYPICAL PROPERTIES AND CHARACTERISTICS**

Property	Test Method	Value
Compressive Strength	ASTM D1621 ASTM 1289-06	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•m²))
Water Absorption	ASTM C209	< 1% volume
Service Temperature		-100°F to 250°F -73°C to 122°C

*Also available in 25 psi minimum, Grade 3

** 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.

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. Versico 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 Versico for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

Other Polyiso Products by Versico

- SECURSHIELD POLYISO BONDED TO COATED GLASS FACER
- MP-HCG POLYISO BONDED TO COATED GLASS FACER
- MP-HF POLYISO BONDED TO FOIL
- MP-HWF POLYISO BONDED TO WOOD FIBERBOARD
- MP-HNB POLYISO BONDED TO ORIENTED STRAND BOARD
- TAPERED MP-HCG POLYISO BONDED TO COATED GLASS FACER
- TAPERED MP-H TAPERED POLYISO
- TAPERED MP-HWF TAPERED POLYISO BONDED TO WOOD FIBERBOARD



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.

