



# POLYISO INSULATION

## SYSTEM ACCESSORIES

### POLYISOCYANURATE INSULATION FOR VERSICO ROOFING SYSTEMS

#### Versico Flat and Tapered Polyiso MP-H

Versico Polyisocyanurate (polyiso) insulation consists of state-of-the-art polyiso foam with superior fire performance characteristics and the ability to retain high R-values ranging from 6.0 to 25.0. Versico Polyiso is manufactured with exceptional strength, using dimensionally stable facers, which add durability to the boards.

Versico Polyiso MP-H and Tapered MP-H feature polyisocyanurate laminated to heavy, black, fiber-reinforced felt facers. Versico Polyiso Insulation is recommended for use for Fully Adhered, Mechanically Attached and Ballasted VersiGard® and VersiWeld® Roofing Systems. Tapered MP-H is manufactured with a tapered profile to promote positive drainage while maintaining the highest thermal efficiency available in a tapered system. Flat and tapered Polyiso is available in 25 psi.

#### STANDARD SIZES

Nominal Thickness Inches	MP-H LTTR Value
1.0"	6.0
1.2"	7.2
1.3"	7.8
1.5"	9.0
1.6"	9.6
1.8"	10.9
2.0"	12.1
2.3"	14.0
2.5"	15.3
2.7"	16.6
3.0"	18.5
3.2"	19.8
3.4"	21.1
3.8"	23.7
4.0"	25.0

• Available in 4' x 4' and 4' x 8' panels in thickness of 1" to 4". • Available in 25 psi formula.

• Available slopes are 1/16", 1/8", 3/16", 1/4", 3/8" and 1/2" per foot.

\* Long-Term Thermal Resistance Values are based on C1289-01 (pending) and CAN/ULC S770 which provides for a 15-year time weighted average.

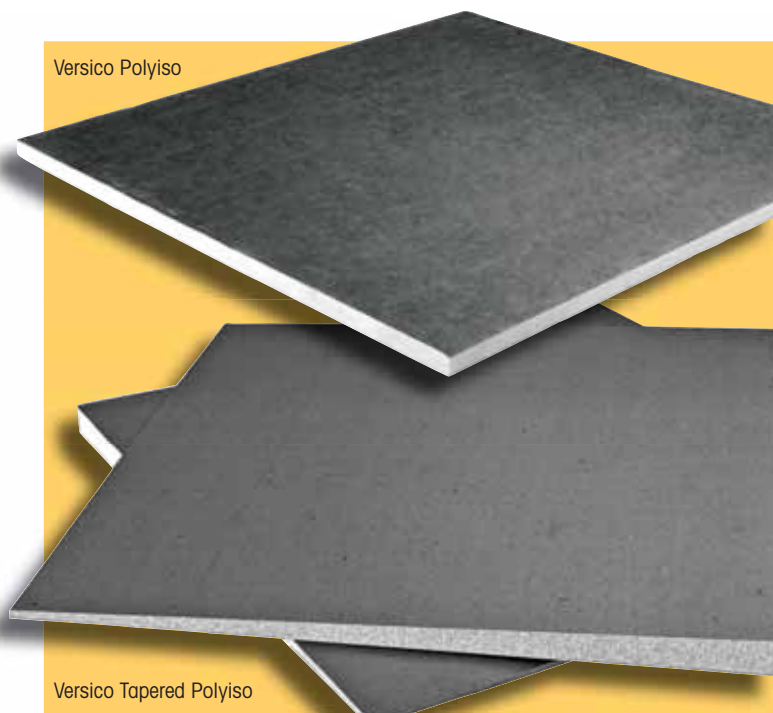
\*\* Other thicknesses available upon request. Inches to millimeter conversion: 1-in. = 25.4-mm. When an LTTR Value greater than 16.6 is required, Versico recommends multiple layers of insulation with staggered joints.

### INSTALLATION – BALLASTED

Versico Polyiso insulation is loose-laid over the roof deck. The insulation must fit together tightly to prevent separation, movement and damage during membrane installation. VersiGard Membrane is then loose-laid over the insulation. Adjoining sheets of membrane are sealed together according to current Versico Specifications. The assembly of insulation and membrane is held in place with a minimum of 10 lbs. of ballast per square foot.

### INSTALLATION – FULLY ADHERED

Install Versico Polyiso insulation with perforated side down. Mechanically attach the insulation boards to the substrate, typically every 2 square feet. Coat the insulation and membrane with Substrate Adhesive at a coverage rate of 60 square feet per gallon of finished surface. Roll the coated membrane onto the coated insulation and broom to ensure contact. Complete the roofing system per Versico Specifications.





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## VERSICO POLYISO – TYPICAL PROPERTIES

Property	Test Method	Typical Results
Dimensional Stability	ASTM D2126	< 2% linear change 7 days
Water Absorption	ASTM C209	< 1% by volume Water
Moisture Vapor Transmission	ASTM E96	< One (1) perm
Compressive strength	ASTM D1621	20 psi minimum*** (138kPa)
Product Density	ASTM D1622	Nominal 2.0 lbs./cu.ft.
Flame Spread	ASTM E84 (foam core)	25** (based on full 10 min. test)
Service Temperature		-100 degrees F to +250 degrees F Max.

\* The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. This data is offered as a service to our customers and is subject to change. All information can be confirmed by contacting Versico.

\*\* The numerical ratings as determined by ASTM Test Method E84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

\*\*\* Also available in 25 psi minimum.

## MECHANICALLY ATTACHED

Versico Polyiso insulation is Mechanically Attached to the roof deck with Versico Insulation Plates and Fasteners typically every 8 square feet. The VersiGard or VersiWeld Membrane is installed over the insulation and Mechanically Attached along the seam area to the roof deck with Versico Fasteners and Plates or Versico Fasteners and Batten Bar. Adjoining sheets of membrane are seamed together according to current Versico Specifications.

## STORAGE

Factory-applied packaging is only intended for protection during transit. When stored outdoors or on the jobsite, packages should be stacked on pallets at least 4 inches above ground level and completely covered with a weatherproof covering such as a tarpaulin.

## VERSICO POLYISO REGULATORY COMPLIANCES

- Federal Specifications – HH-I-1972/GEN and HH-I-1972/2 Class 1
- ASTM 1289-01
- Metro-Dade County, Florida Product Quality Standards and Title 25 Foam Flammability Criteria (License #TC 1231)
- BOCA, ICBO, SBCCI Sections on Foam Insulation
- CCMC No. 12464-L

For more information and samples please call 1.800.992.7663.

## FM STANDARD 4450/4470 APPROVAL

Versico Polyiso is approved for Class 1 insulated steel, wood, concrete and gypsum roof deck construction for both 1-60 and 1-90 windstorm classifications (may be mopped or mechanically attached to concrete roof deck). Refer to FM Approval Guide for details on specific systems.

## UL STANDARD 1256 CLASSIFICATION

- Insulated metal deck construction assemblies
- Construction #120 and #123

## UL STANDARD 790 CLASSIFICATION

- Class A with most roof membrane systems
- See UL Building Materials Directory

## UL STANDARD 263 FIRE RESISTANCE CLASSIFICATION (ASTM E 119)

Some Classifications for fire resistance are P225, P230, P259, P508, P510, P514, P701, P713, P717, P718, P719, P720, P722, P723, P724, P725, P727, P729, P730, P732, P801, P814, P815, P818, P819, P823 and P828. See UL Fire Resistance Directory for updated listings.

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