H-SHIELD HD-MA

Flat Polyisocyanurate Insulation

TECHNICAL DATA SHEET

H-Shield HD-MA is a rigid-roof insulation cover board composed of a closed cell polyisocyanurate foam core bonded on each side to a glass-reinforced facer (GRF). This product is specifically designed to use as a cover board in mechanically-fastened single-ply systems only. H-Shield HD-MA delivers an R-value of 2.5 and a compressive strength of 80 psi.

APPLICATIONS

- For use on mechanically-attached and induction-welded single-ply roofing systems only

PANEL CHARACTERISTICS

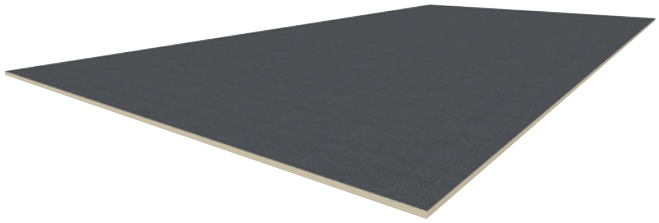
- Contains no CFCs, HCFCs, has zero ODP, EPA compliant and has virtually no GWP.
- Exceptional protection against hail and rooftop traffic
- Higher R-Value than gypsum cover board and 1/5 the weight
- Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels in thickness of 1/2" (13 mm)

CODES AND COMPLIANCES

- ASTM C1289, Type II, Class 1, Grade 3 (25 psi min)
- 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)
- FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNavSM)
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1418
- Third-party certification with the PIMA Quality Mark for Long-Term Thermal Resistance (LTTR) values
- CAN/ULC 5704, Type 2 & 3, Class 3

POLYISO ECO READY (OPTIONAL)

- 5% bio-content option available
- Contributes to carbon reduction initiatives via mass balance approach under ISCC PLUS compliance



TYPICAL PHYSICAL PROPERTY DATA

Long Term Thermal Resistance Values are based on ASTM C 1289

Physical Property	Test Method	Value
Compressive Strength	ASTM D 1621 (modified)	80 psi* (138kPa, Grade 3)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E 96	< 1.5 perms (57.5ng/(Pa•s•m^2))
Water Absorption	ASTM C 1763	<3% volume

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.

H-SHIELD HD-MA THERMAL VALUES

Long Term Thermal Resistance Values are based on ASTM C 1289

Thickness (inches)	Thickness (mm)	R-Value*
0.5	13	2.5

*Tested in accordance with ASTM C518

WARNINGS AND LIMITATIONS

Insulation must be protected from open flame and kept dry at all times. Store above ground on pallets and cover with breathable tarpaulins. Install only as much Polyiso as can be covered the same day with the completed roofing system. Do not leave exposed. Hunter Panels will not be responsible for specific designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling.

INSTALLATION – SINGLE-PLY SYSTEMS

Mechanically Attached Single-Ply Systems

H-Shield HD-MA panels 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.

Review manufacturer's specifications and details for complete installation information.

To achieve optimal thermal performance, Hunter Panels recommends installation of a multi-layered system with staggered joints.