

≥ 80 psi HD Polyiso Cover Board for MA Systems Only



Description:

EnergyGuard™ HD-MA Polyiso Cover Board is made of glass fiber-reinforced cellulosic facers (GRF) bonded to a core of high-density polyisocyanurate foam designed to be used as a cover board for low-slope, mechanically attached or induction welded single-ply roof systems only.

Features and Benefits:

- R-value 2.5 — highest R-value compared to non-polyiso cover boards of equivalent thickness
- High compressive strength — 80 psi (551 kPa) minimum up to 109 psi (751 kPa) maximum
- Lighter weight — approximately 9 lb. per 4 x 8 sheet (4.08 kg) — considerably lighter than gypsum 4' x 8' (1.22 m x 2.44 m) board
- Ideal for low-slope roofs when an economical high-density polyiso cover board is needed for added protection against hail events and foot traffic*
- Can help save time and labor due to ease of installation, lightweight, easy to cut

Panel Characteristics:

- Available in 1/2" (12.7 mm) thickness
- Available in 4' x 8' (1.22 m x 2.44 m)
- 48 pieces per bundle

Codes & Compliance:

- Meets the requirements of ASTM C1289, Type II Class 5 Grade 1 (80 psi min - 109 psi max)
- FM Approved, including as a component of a Class 1-SH hail rated assembly. Refer to RoofNav.com for approved assemblies
- Classified by UL in accordance with ANSI/UL 790 and 1256. Refer to UL Product iQ for specific assemblies.
- For additional information, contact GAF at 1-800-766-3411 or designservices@gaf.com



Sustainability:

- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs; has zero ozone depletion potential (ODP) and negligible global warming potential (GWP)
- Potential LEED Credits for polyiso use
- Where sold compliant with State HFC regulations. More information available at polyiso.org
- Environmental Product Declaration (EPD) (Industry)

*GAF warranties and guarantees do not provide coverage against traffic except where GAF walkways are applied, or hail except where additional puncture-resistance coverage is purchased on eligible jobs. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.



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Typical Physical Property Data:

Property	Test Method	Values
Compressive Strength	ASTM D1621	80 psi min (551 kPa) up to 109 psi max (751 kPa)
Dimensional Stability Change (length + width) *	ASTM D2126	< 1% linear change
Flute Spanability	ASTM E661	3.75" (93.5mm)
Flexural Strength	ASTM C203	400 psi min (2,750 kPa)
Tensile Strength	ASTM C209	2,000 psf min (95 kPa)
Water Absorption (percent by volume)	ASTM C209	3.0% max
Water Vapor Permeance	ASTM E96, Procedure A	1.5 perm max (85.8ng/Pa•s•m ²)
Service Temperature †		260°F (126.7°C) or less
R-value	ASTM C518	2.5

* Stated dimensional stability tolerance: thickness shall not diminish by more than 4% max (at -40°F or 200°F at ambient RH) or by more than 4.5% max (158° F & 97% RH).

† These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

Warnings and Limitations:

- EnergyGuard™ HD-MA Polyiso Cover Board is a non-structural, non-load-bearing material. It is not designed for direct traffic usage unless adequately protected.
- EnergyGuard™ HD-MA Polyiso Cover Board is approved for mechanically attached or induction welded single-ply systems only.
- EnergyGuard™ HD-MA Polyiso Cover Board should be stored protected from the elements. Bundle wrap is not for use as waterproofing for boards. No more insulation should be installed than can be completely covered with roofing on the same day.
- As unprotected polyisocyanurate will burn, fire safety precautions should be observed wherever insulation products are used.
- Refer to the application specifications in the current membrane manufacturer's application and specifications manual for proper installation procedures.
- Refer to *PIMA Technical Bulletin No.109 Storage and Handling Recommendations for Polyiso Roof Insulation* at polyiso.org



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