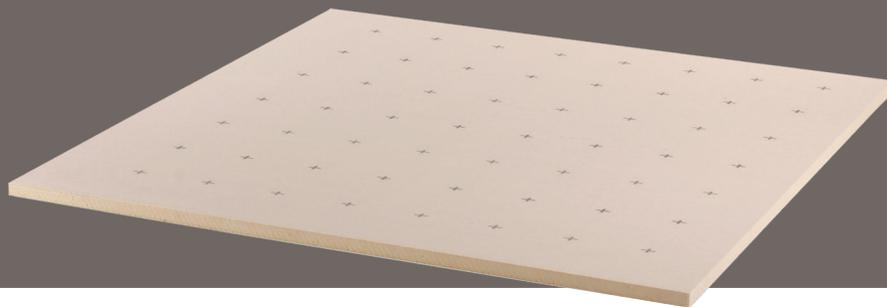




EnergyGuard™ RA
GAF HD
 Polyiso Cover Board



Description:

EnergyGuard™ RA HD Polyiso Cover Board is a closed-cell high-density polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers (CGF), designed to be used as a cover board for low-slope roof systems.

Features and Benefits:

- Developed with durable coated glass facers and a high-density polyiso foam core
- 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
- This product has been validated by UL Environment as resistant to mold growth based on independent testing to UL 2824†
- Lightweight—only 11 lbs (4.9 kg) per 4'x8' (1.22m x 2.44m) board, easy to cut, easy to install
- Ideal for low-slope roofs with high foot traffic, hail events, and metal retrofit applications†

† GAF warranties and guarantees do not provide coverage against mold or other biological growth, 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.

Panel Characteristics:

- Available in 0.5" (12.7mm) thickness, 4' x 4' (1.22m x 1.22m) and 4' x 8' (1.22m x 2.44m) panels

Codes & Compliance:

- Meets the requirements of ASTM C 1289 Type II Class 4 Grade 1 (80 psi - 109 psi max)
- FM Approved—consult RoofNav.com for specific assemblies
- Classified by UL in accordance with ANSI/790; refer to UL Product iQ for specific assemblies
- For additional information, contact GAF at 877-423-7663 or designservices@gaf.com



Sustainability:

- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP)
- EnergyGuard™ RA HD Polyiso Cover Board contains 7.4% recycled materials by weight
- Has achieved GREENGUARD GOLD Certification



Thermal Data:

THICKNESS		THERMAL		PCS/PKG
in	mm	R-VALUE ¹	RSI ²	
0.5	12.7	2.5	0.44	42

¹ Determined by ASTM test method C518 at 75°F mean temperature.

² RSI is the metric expression of R-value (m²•K/W).



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Typical Physical Property Data

PROPERTY	TEST METHOD	ASTM C1289 VALUE
Compressive Strength	ASTM D1621	Grade 1 - min. 80 psi (551 kPa)
Dimensional Stability	ASTM D2126	max. 1% (length & width) max. 4% (thickness)*
Tensile Strength	ASTM C209	min. 2,000 psf (95.8 kPa)
	ASTM D1623	
Water Absorption (% by vol.)	ASTM C209	max 4%
	ASTM D2842	
Water Vapor Permeance	ASTM E96	max. 1.5 perm [85.8 ng/(Pa·s·m ²)]

*Max. 4% at -40°F and 200°F (-40°C & 93°C) ambient RH. Max. 4% at 158°F (70°C) and 97% RH.

Surface Burning and Service Temperature Data

	TEST METHOD	VALUE
Service Temperature	n/a	-100°F to 250 °F (-73.3°C to 121.1 °C)
Flame Spread Index	ASTM E84 / UL 723	max. 75
Smoke Developed Index	ASTM E84 / UL 723	max. 200

Installation

- EnergyGuard™ RA HD Polyiso Cover Board should be kept dry before, during, and after installation.
- Refer to product packaging and PIMA Technical Bulletin #109 for storage and handling recommendations.
- This product will burn if exposed to an ignition source of sufficient heat and intensity. Do not apply flame directly to EnergyGuard™ RA HD Polyiso Cover Board.
- Typical field fastening requirements can be obtained from GAF membrane system manufacturer or FM Global Property Loss Prevention Data Sheets 1-29.
- Prior to installation, consult your local building codes, contract documents, professional engineer, FM Global, and GAF for additional installation guidelines as well as design enhancements.



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