

# ≥80 psi High Density Polyiso Cover Board for Combustible Decks



## Description:

EnergyGuard™ HD Barrier Polyiso Cover Board is made of durable coated glass fiber facers (CGF) bonded to a core of high density polyisocyanurate foam designed to be installed directly over a combustible deck.

## 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
- EnergyGuard™ HD Barrier Polyiso Cover Board achieves an ANSI/UL 790 Class A roofing fire resistance rating as a component of UL Classified roofing assemblies over combustible decks with a 0.5" (12.7 mm) board thickness. Refer to UL Product iQ for specific assemblies
- Lightweight - only 11 lbs (4.9kg) per 4' x 8' (1.22m x 2.44m) board, easy to cut, easy to install
- Meets the requirements of D3273 for resistance to mold growth\*
- Excellent dimensional stability, high moisture resistance and low water permeability
- Ideal for low-slope roofs with high foot traffic, hail events and metal retrofit applications†
- Versatile — approved component in single ply, BUR and modified bitumen systems, with a variety of attachment methods: mechanically attached, fully adhered, loose laid and ballasted

## Panel Characteristics:

- Available in 0.5" (12.7mm) thickness
- Available in 4' x 4' (1.22m x 1.22m) and 4' x 8' (1.22m x 2.44m)
- 48 pieces per bundle
- Other EnergyGuard™ products available – tapered, GRF facer and non-halogenated. See individual data sheets for more information

## Codes & Compliance:

- Meets the requirements of ASTM C1289 Type II, Class 4, Grade 1
- Classified by UL in accordance with ANSI/UL 790 and 1256. Refer to UL Product iQ for specific assemblies
- FM Approved. Including as a component of a Class 1 SH hail rated assembly. Refer to Roof.Nav.com for approved assemblies.
- UL Evaluation Report ER1306-03
- State of Florida Approved
- For additional information, contact GAF at 877-423-7663 or [designservices@gaf.com](mailto: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
- GREENGUARD Gold
- Where sold compliant with State HFC regulations. More information available at [www.polyiso.org](http://www.polyiso.org)
- Environmental Product Declaration (EPD)



\* GAF warranties and guarantees do not provide coverage against mold or other biological growth. Refer to [gaf.com](http://gaf.com) for more information on warranty and guarantee coverage and restrictions.

† GAF warranties and guarantees do not provide coverage against traffic except where GAF walkways are applied. Refer to [GAF.com](http://GAF.com) for more information on warranty and guarantee coverage and restrictions.

GAF warranties and guarantees do not provide coverage against hail except where additional puncture resistance coverage is purchased on eligible jobs. Refer to [GAF.com](http://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	4% max
Water Vapor Permeance	ASTM E96, Procedure A	1.5 perm max (85.8ng/Pa•s•m²)
Service Temperature†		260°F (126.7°C) or less
Resistance to Mold‡	ASTM D3273	Pass (10)
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.

‡ GAF warranties and guarantees do not provide coverage against mold or other biological growth. Refer to [gaf.com](http://gaf.com) for more information on warranty and guarantee coverage and restrictions.

## Warnings and Limitations:

- EnergyGuard™ HD Barrier Polyiso Cover Board is a non-structural, non load-bearing material.
- EnergyGuard™ HD Barrier 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.
- Direct mopping of modified bitumen roofing or built-up roofing (BUR) to EnergyGuard™ HD Barrier Polyiso Cover Board is not approved.
- 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 [www.polyiso.org](http://www.polyiso.org)



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