



EnergyGuard™

HD

Polyiso Cover Board

EnergyGuard™ HD Polyiso product line  
offers solutions for solar roof systems



## Description:

GAF offers a full line of high-density polyiso cover boards that offer strength and support for installation of solar equipment mounts that are included in GAF commercial roof guarantees. EnergyGuard™ HD products are closed-cell, high-density polyisocyanurate insulation bonded on both sides to either a durable coated glass facer (CGF) or fiber reinforced organic facer (GRF).

## How high-density polyiso cover boards contribute to a “solar-ideal” roof:

- Available in two compressive strengths — 80 psi min – 109 psi max and 110 psi min – 139 psi max — EnergyGuard™ HD Polyiso Cover Boards:
  - Contribute structural strength and weight-bearing capability necessary to support a significant amount of overburden
  - Help distribute weight, which can help make installation of both solar mounts and photovoltaic systems easier
- Significantly lighter (between 11 and 13 lbs per board) than most alternative gypsum cover boards, HD Polyiso Cover Boards offer a practical balance between weight and strength for roofs that will need to support photovoltaic system overburden.

## Why EnergyGuard™ HD Polyiso Cover Board:

- In addition to their light weight, EnergyGuard™ HD Cover Boards are easy to cut with a roofing knife, and easy to install with fasteners or adhesive
- CGF facer meets the requirements of ASTM D3273 for resistance to mold growth\*
- Code compliance — FM, UL, Miami Dade, Florida Building Code†
- Enhanced Thermal Value — R-value of 2.5 per board.
- FM approved including as a component of a Class 1 SH Hail-Rated assembly. Refer to [roofnav.com](http://roofnav.com) for approved assemblies.
- Classified by UL in accordance with ANSI UL 790 and 1256. Refer to UL Product iQ for specific assemblies.
- EnergyGuard™ HD Barrier Cover Board achieves an ANSI/UL 790 Class A Roofing fire-resistance rating as a component of UL Classified roofing assembly over combustible decks with 1/2" minimum board thickness

\* 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.

† Please reference individual product data sheets for specific codes and approvals and more information, found at [gaf.com](http://gaf.com).

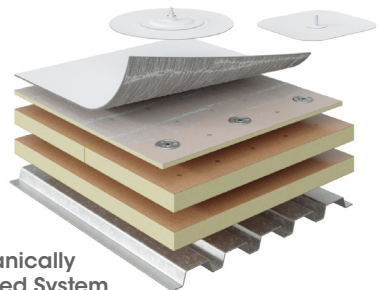
## System compatibility:

- System compatibility with a variety of: roof decks, insulation, coverboards, and attachment methods
- Compatible with either fleece-back or smooth single-ply membrane systems

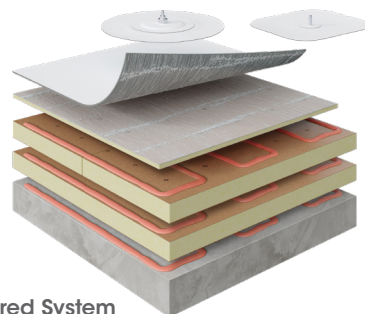
## Examples of typical assemblies:



Mechanically  
Fastened System



Mechanically  
Fastened System



Adhered System



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We protect what matters most™



## High-Density polyiso cover board product offering:\*

### 1/2" thickness — 4' x 4' and 4' x 8' panels:

At less than half the weight of a 1/4" gypsum coverboard, HD Polyiso Cover boards can be easily cut with a roofing knife, do not create dust, and — due to their high R-2.5 thermal value — they enable you to achieve higher R-value with a thinner and lighter overall roof profile.

#### Standard compressive strength 80 psi – 109 psi max:

**EnergyGuard™ HD** — CGF facer

**EnergyGuard™ HD-MA** — GRF facer; for mechanically attached applications, this is a more economical solution

**EnergyGuard™ HD Barrier** — CGF facer; can go directly onto a combustible deck and achieve a UL Class A Fire Rating

**Ultra HD Composite** — This labor-saving composite board includes high-density polyiso cover board with CGF facer on the top (80 psi min – 109 psi max) manufactured on line as a monolithic panel to EnergyGuard™ Ultra Polyiso Insulation on the bottom (20 psi)

#### Premium compressive strength 110psi – 139 psi max:

**EnergyGuard™ HD Plus** — CGF facer; for additional strength and durability when addressing higher overburden weights

#### For specific product information:

Go to [gaf.com](http://gaf.com) for the individual product pages.



## For a more sustainable option:

### Available in Non-Halogenated, TCPP Free/Red List Free at standard polyiso pricing:

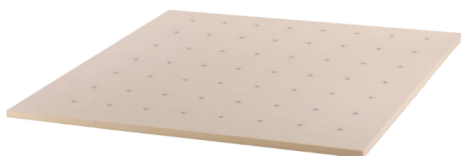
GAF EnergyGuard™ NH cover boards are TCPP Free/Red List Free:

- Sustainability certifications include Declare, GREENGUARD, GreenCircle for recycled content, Optimized LCAs, HPDs, LEED V5, and product-specific EPDs
- Declare-approved assemblies
- Manufactured with zero ozone depletion potential and negligible global warming potential
- No CFCs, HCFCs
- Products include:
  - EnergyGuard™ NH HD Polyiso Cover Board
  - EnergyGuard™ NH HD Plus Polyiso Cover Board
  - EnergyGuard™ NH HD Barrier Polyiso Cover Board

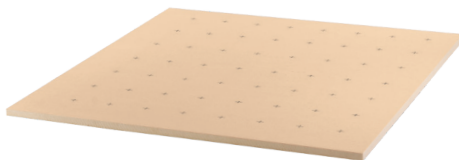


To learn more go to:

\* If you live in the hail zone, a higher compressive strength and VSH rated cover board is recommended for added protection.



**EnergyGuard™ HD**  
Polyiso Cover Board



**EnergyGuard™ HD-MA**  
Polyiso Cover Board



**Ultra HD Composite**  
Insulation



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