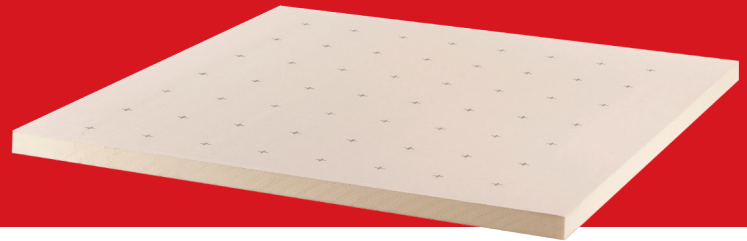


Flat Polyiso with CGF Facers



Description:

EnergyGuard™ Ultra Polyiso Insulation board is made of durable coated glass facers (CGF) bonded to a core of polyisocyanurate foam.

Features and Benefits:

- Meets the requirements of ASTM D3273 for resistance to mold growth⁴
- EnergyGuard™ Ultra Polyiso Insulation achieves an ANSI/UL 790 Class A roofing fire resistance rating over combustible deck without the use of a gypsum board or slip sheet when installed at a minimum 3" (75mm) thickness. Also achieves an ANSI/UL 790 Class B roofing fire resistance rating when installed at a minimum thickness of 1.5" (38mm). Refer to UL Product iQ for specific assemblies
- 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
- Approved for direct application to steel decks
- High insulation value — polyiso insulation has the highest R-value per inch compared to any other type of non-polyiso insulation of equivalent thickness
- Because of its light weight, this material is easy to handle on the job site and installs quickly. Easy cutting in the field provides the installer with simplified fabricating on the roof deck
- Excellent dimensional stability, high moisture resistance, low water permeability

Panel Characteristics:

- Available in a variety of thicknesses from 1.0" (25.4 mm) to 4.6" (116 mm)
- Available in 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.44 m) boards
- Other EnergyGuard™ products available – tapered, GRF facer and non-halogenated. See individual data sheets for more information
- Flute Fill and other special sizes are available upon request

Codes & Compliance:

- Meets the requirements of ASTM C1289 Type II, Class 2, Grade 2 (20 psi), and also available Grade 3 (25 psi)
- FM Approved—consult RoofNav.com for specific assemblies
- Classified by UL in accordance with ANSI/UL 1256 and 790. Refer to UL Product iQ for specific assemblies
- UL Evaluation Report UL ER1306-03
- Miami-Dade County Product Control Approved
- State of Florida Approved
- Meets the requirements of CAN/ULC 704.1 Type 2, Class 3 or Type 3 Class 3[†]
- UL (Canada) Evaluation Report ULC ER1306[†]
- For additional information, contact GAF at 1-800-766-3411 or designservices@gaf.com

[†] GAF manufacturing locations in UT and PA.



EnergyGuard™ Ultra Polyiso Insulation Thermal Values:

Size*	R-Value**	Max Flute Span (in)
1.0" (25.4 mm)	5.7	2 5/8" (66.7 mm)
1.2" (30.5 mm)	6.8	2 5/8" (66.7 mm)
1.5" (38.1 mm)	8.6	4 3/8" (111 mm)
1.75" (44.5 mm)	10.0	4 3/8" (111 mm)
2.0" (51 mm)	11.4	4 3/8" (111 mm)
2.2" (59 mm)	12.6	4 3/8" (111 mm)
2.3" (58 mm)	13.2	4 3/8" (111 mm)
2.5" (64 mm)	14.4	4 3/8" (111 mm)
2.6" (66 mm)	15.0	4 3/8" (111 mm)
2.8" (71 mm)	16.2	4 3/8" (111 mm)
3.0" (76 mm)	17.4	4 3/8" (111 mm)
3.2" (81 mm)	18.6	4 3/8" (111 mm)
3.5" (89 mm)	20.5	4 3/8" (111 mm)
3.7" (94 mm)	21.7	4 3/8" (111 mm)
4.0" (102 mm)	23.6	4 3/8" (111 mm)
4.3" (109 mm)	25.4	4 3/8" (111 mm)
4.5" (114 mm)	26.6	4 3/8" (111 mm)
4.6" (116 mm)	27.1	4 3/8" (111 mm)

* Other thicknesses available upon request.

** Long Term Thermal Resistance Values provide a 15-year time weighted average in accordance with CAN/ULC 770.

For optimal roof performance and to prevent thermal bridging GAF recommends installing two layers of Polyiso with staggered joints.



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Sustainability — for more information go to gaf.com/green

- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs; has zero ozone depletion potential (ODP) and negligible global warming potential (GWP)
- GREENGUARD Gold
- Potential LEED Credits for Polyiso Use
- Environmental Product Declaration (EPD)



Typical Physical Property Data:

Property	Test Method	Value
Compressive Strength	ASTM D1621	Grade 2 – 20 psi min (138 kPa) Grade 3 – 25 psi min (172 kPa)
Dimensional Stability Change (length + width) ²	ASTM D2126	< 2% linear change
Flexural Strength	ASTM C203	40 psi min (275 kPa)
Tensile Strength	ASTM C209	500 psf min (24 kPa)
Water Absorption (percent by volume)	ASTM C209	1.5% max
Water Vapor Permeance	ASTM E96, Procedure A	1.5 perm max (85.8 ng/Pa•s•m ²)
Service Temperature		-100° F to 250° F (-73.3° C to 121.1° C)
Flame Spread Index ³	ASTM E84	< 75 ¹
Smoke Developed Index	ASTM E84	< 200 ¹
Resistance to Mold ⁴	ASTM D3273	Pass (10)

¹ Foam Core

² Stated dimensional stability tolerance: thickness shall not diminish by more than 4% max.

³ These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

⁴ GAF warranties and guarantees do not provide coverage against mold or other biological growth. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

Warnings and Limitations:

- EnergyGuard™ Ultra Polyiso Insulation is a non-structural, non load-bearing material. It is not designed for direct traffic usage unless adequately protected.
- EnergyGuard™ Ultra Polyiso Insulation 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 torching of modified bitumen roofing to EnergyGuard™ Ultra Polyiso Insulation will present a fire hazard. A properly installed fiberglass base sheet or gypsum cover board MUST be used over the insulation.
- 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



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