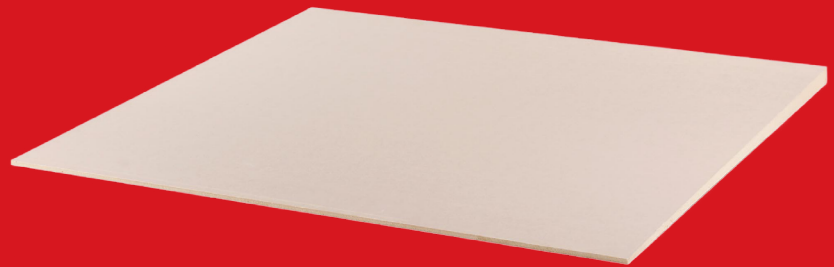


# Sloped Polyiso with CGF Facers



## Description:

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

## Features and Benefits:

- Prevents ponding water when properly installed on a low-slope roof by providing slope via a series of both tapered and flat polyiso fill panels
- Versatile — approved in single-ply roofing systems, BUR, and modified bitumen with a variety of attachment methods to the deck: mechanically attached, fully adhered, loose laid, ballasted
- Highest R-value per inch of any rigid board insulation
- Easy to install — lightweight, easy to cut, easy to handle
- Increased mold resistance — meets the requirements of ASTM D3273 for resistance to mold<sup>§</sup>
- EnergyGuard™ Ultra Polyiso Insulation and EnergyGuard Ultra Tapered Polyiso Insulation achieve 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. Refer to UL Product iQ for specific assemblies.

## Panel Characteristics:

**Sizes:** 4' x 4' (1.22 m x 1.22 m) – 4' x 8' (1.22 m x 2.44 m) available upon request

**Thickness:** ½" – 4½" (12.7 mm – 114.3 mm) in a single layer

**Slope:** ⅛" (1.6 mm), ⅙" (3.2 mm), ⅓" (4.8 mm), ¼" (6.35 mm), ⅜" (9.5 mm), ½" (12.7 mm)

## Codes and Compliance:

- Meets the requirements of ASTM C1289 Type II, Class II, Grade 2 (20 PSI) or 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 877-423-7663 or [designservices@gaf.com](mailto:designservices@gaf.com)



## Tapered Design Team:

Our Tapered Design Team specialists are available within your region to assist you in all aspects of preplanning, design, and training. Reach out at [tdg@GAF.com](mailto:tdg@GAF.com) or 866-207-7123.

### Our services include:

- Conceptual design assistance
- Quote review and comparison
- Plan and spec review
- Alternate design recommendations
- Job startups, trainings, and presentations

## Sustainability:

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



For more information go to [gaf.com/green](http://gaf.com/green)

\* GAF manufacturing facilities in UT and PA.



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**TYPICAL PHYSICAL PROPERTY DATA CHART\***

Property	Test Method	Value
Compressive Strength	ASTM D1621	Grade 2 – 20 psi min (138 kPa) or Grade 3 – 25 psi min (172 kPa)
Dimensional Stability Change (length + width) <sup>†</sup>	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 <sup>2</sup> )
Service Temperature		-100° F to 250° F (-73.3° C to 121.1° C)
Flame Spread Index <sup>‡</sup>	ASTM E84	< 75 <sup>‡</sup>
Smoke Developed Index	ASTM E84	< 200 <sup>‡</sup>
Resistance to Mold <sup>§</sup>	ASTM D3273	Pass (10)

\* Foam Core    † Stated dimensional stability tolerance; thickness shall not diminish by more than 4% max.  
<sup>‡</sup> These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.  
<sup>§</sup> 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.

**TAPERED POLYISO PHYSICAL CHARACTERISTICS AND SHIPPING INFORMATION**

Physical Characteristics				Shipping Information (4' x 4') (1.22 m x 1.22 m)				
Slope	Thickness (Inches/Millimeters)	Size**	Average Thickness (Inches/Millimeters)	Board Feet Per Panel	Boards/Bundle	Boards/Truck	Bundle/Truck	Sq. Ft. Per Truck
1/16" (1.6 mm)	0.5 - 0.75 (12.7 - 19.1)	1	0.625 (15.9)	10	72	3,456	48	55,296 (5,137 sq. m)
	0.75 - 1.0 (19.1 - 25.4)	2	0.875 (22.2)	14	52	2,496	48	39,936 (3,710 sq. m)
	1.0 - 1.25 (25.4 - 31.8)	3	1.125 (28.6)	18	40	1,920	48	30,720 (2,854 sq. m)
	1.25 - 1.5 (31.8 - 38.1)	4	1.375 (34.9)	22	32	1,536	48	24,576 (2,283 sq. m)
	1.5 - 1.75 (38.1 - 44.5)	5	1.625 (41.3)	26	28	1,344	48	21,504 (1,998 sq. m)
	1.75 - 2.0 (44.5 - 51.0)	6	1.875 (47.6)	30	24	1,152	48	18,432 (1,712 sq. m)
	2.0 - 2.25 (51.0 - 57.2)	7	2.125 (54.0)	34	20	960	48	15,360 (1,427 sq. m)
	2.25 - 2.5 (57.2 - 64.0)	8	2.375 (60.3)	38	18	864	48	13,824 (1,284 sq. m)
1/8" (3.2 mm)	0.5 - 1.0 (12.7 - 25.4)	AA	0.75 (19.1)	12	64	3,072	48	49,152 (4,566 sq. m)
	1.0 - 1.5 (25.4 - 38.1)	A	1.25 (31.8)	20	38	1,824	48	29,184 (2,711 sq. m)
	1.5 - 2.0 (38.1 - 51.0)	B	1.75 (44.5)	28	26	1,248	48	19,968 (1,855 sq. m)
	2.0 - 2.5 (51.0 - 64.0)	C	2.25 (57.2)	36	20	960	48	15,360 (1,427 sq. m)
	2.5 - 3.0 (64.0 - 76.2)	D	2.75 (70.0)	44	16	768	48	12,288 (1,142 sq. m)
	3.0 - 3.5 (76.2 - 89.0)	E	3.25 (82.6)	52	14	672	48	10,752 (999 sq. m)
	3.5 - 4.0 (89.0 - 102.0)	F	3.75 (95.3)	60	12	576	48	9,216 (856 sq. m)
4.0 - 4.5 (102.0 - 114.3)	FF	4.25 (108.0)	68	10	480	48	7,680 (713 sq. m)	
3/16" (4.8 mm)	0.5 - 1.25 (12.7 - 31.8)	JJ	0.875 (22.2)	14	50	2,400	48	38,400 (3,567 sq. m)
	1.25 - 2 (31.8 - 51.0)	KK	1.625 (41.3)	26	26	1,248	48	19,968 (1,855 sq. m)
	2.0 - 2.75 (51.0 - 70.0)	LL	2.375 (60.3)	38	20	960	48	15,360 (1,427 sq. m)
	2.75 - 3.5 (70.0 - 89.0)	MM	3.125 (79.4)	50	15	720	48	11,520 (1,070 sq. m)
	1.0 - 1.75 (25.4 - 44.5)	J	1.375 (34.9)	22	34	1,632	48	26,112 (2,426 sq. m)
	1.75 - 2.5 (44.5 - 64.0)	K	2.125 (54.0)	34	22	1,056	48	16,896 (1,570 sq. m)
	2.5 - 3.25 (64.0 - 82.6)	L	2.875 (73.0)	46	16	768	48	12,288 (1,142 sq. m)
	3.25 - 4.0 (82.6 - 102.0)	M	3.625 (92.1)	58	12	576	48	9,216 (856 sq. m)
1/4" (6.35 mm)	0.5 - 1.5 (12.7 - 38.1)	X	1.0 (25.4)	16	48	2,304	48	36,864 (3,425 sq. m)
	1.5 - 2.5 (38.1 - 64.0)	Y	2.0 (51.0)	32	24	1,152	48	18,432 (1,712 sq. m)
	2.5 - 3.5 (64.0 - 89.0)	Z	3.0 (76.2)	48	16	768	48	12,288 (1,142 sq. m)
	3.5 - 4.5 (89.0 - 114.3)	ZZ	4.0 (102.0)	64	12	576	48	9,216 (856 sq. m)
	1.0 - 2.0 (25.4 - 51.0)	G	1.5 (38.1)	24	32	1,536	48	24,576 (2,283 sq. m)
	2.0 - 3.0 (51.0 - 76.2)	H	2.5 (64.0)	40	18	864	48	13,824 (1,284 sq. m)
	3.0 - 4.0 (76.2 - 102.0)	I	3.5 (89.0)	56	12	576	48	9,216 (856 sq. m)
3/8" (9.5 mm)	0.5 - 2.0 (12.7 - 51.0)	SS	1.25 (31.8)	20	38	1,824	48	29,184 (2,711 sq. m)
	2.0 - 3.5 (51.0 - 89.0)	TT	2.75 (69.9)	44	16	768	48	12,288 (1,142 sq. m)
	1.0 - 2.5 (25.4 - 64.0)	S	1.75 (44.5)	28	27	1,296	48	20,736 (1,926 sq. m)
1/2" (12.7 mm)	0.5 - 2.5 (12.7 - 64.0)	Q	1.5 (38.1)	24	32	1,536	48	24,576 (2,283 sq. m)
	2.5 - 4.5 (64.0 - 114.3)	QQ	3.5 (89.0)	56	12	576	48	9,216 (856 sq. m)
	1.0 - 3.0 (25.4 - 76.2)	XX	2.0 (51.0)	32	22	1,056	48	16,896 (1,570 sq. m)

\*\* Availability for these tapered panel systems may vary for each region.



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