

Sloped Polyiso with CGF Facers



EnergyGuard™ UltraTapered Polyiso Insulation



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***
- Increased fire resistance — ANSI/UL 790 Class A Roofing Fire Rating over combustible decks without the use of a gypsum board for fire-rated slip sheet (minimum 3" (76 mm) of EnergyGuard™ Ultra Polyiso in combination with tapered is required, see UL Product iQ for details)

Panel Characteristics:

Sizes: 4' x 4' (1.22 m x 1.22 m) – 4' x 8' (2.43 m x 2.44 m) available upon request

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

Slope: 1/16" (1.6 mm), 1/8" (3.2 mm), 3/16" (4.8 mm), 1/4" (6.35 mm), 3/8" (9.5 mm), 1/2" (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
- UL Listed to ANSI/UL 790, UL 263, UL 1258 (see UL Product iQ for details)
- ASTM D3273 resistance to mold
- UL Evaluation Report UL ER1306-03
- Miami Dade County Approved
- State of Florida Approved
- For additional information, contact GAF at 877-423-7663 or 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 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
- Health Product Declaration (HPD)
- Environmental Product Declaration (EPD) (Industry)



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TYPICAL PHYSICAL PROPERTY DATA CHART*

Property	Test Method	Value
Compressive Strength	ASTM D1621	20 psi (138kPa) or 25 psi (172 kPa)
Dimensional Stability**	ASTM D2126	< 2%
Water Absorption	ASTM C209	< 1.5%
Moisture Vapor Transmission	ASTM E96	< 1.5 Perm
Service Temperature		-100° to 250°F (-73.3° to 121.1°C)
Flame Spread Index*	ASTM C84	< 75
Smoke Developed Index*	ASTM C84	< 200
Flexural Strength	ASTM C203	40 psi
Tensile Strength	ASTM C209	≥500 24 kPa
Property Resistance to Mold***	ASTM D3273	Pass (10)

*Foam core **Stated dimensional stability tolerance; board thickness shall not diminish by more than 2% max
 ***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.

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 - 19.05)	1	0.625 (15.9)	10	72	3,456	48	55,296 (5,137 sq. m)
	0.75 - 1.0 (19.05 - 25.4)	2	0.875 (22.2)	14	52	2,496	48	39,936 (3,710 sq. m)
	1.0 - 1.25 (25.4 - 31.75)	3	1.125 (28.6)	18	40	1,920	48	30,720 (2,854 sq. m)
	1.25 - 1.5 (31.75 - 38.1)	4	1.375 (34.9)	22	32	1,536	48	24,576 (2,283 sq. m)
	1.5 - 1.75 (38.1 - 44.45)	5	1.625 (41.3)	26	28	1,344	48	21,504 (1,998 sq. m)
	1.75 - 2.0 (44.45 - 51.0)	6	1.875 (47.6)	30	24	1,152	48	18,432 (1,712 sq. m)
	2.0 - 2.25 (51.0 - 57.15)	7	2.125 (54.0)	34	20	960	48	15,360 (1,427 sq. m)
	2.25 - 2.5 (57.15 - 64)	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 (19.05)	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 (38.01 - 51.0)	B	1.75 (44.4)	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 - 76.0)	D	2.75 (69.9)	44	16	768	48	12,288 (1,142 sq. m)
	3" - 3.5" (76.0 - 89.0)	E	3.25 (82.55)	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 - 31.75)	JJ	0.875 (22.2)	14	50	2,400	48	38,400 (3,567 sq. m)
	1.25 - 2 (31.75 - 51.0)	KK	1.625 (41.3)	26	26	1,248	48	19,968 (1,855 sq. m)
	2 - 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 - 88.9)	MM	3.125 (79.3)	50	15	720	48	11,520 (1,070 sq. m)
	1.0 - 1.75 (25.4 - 44.45)	J	1.375 (34.9)	22	34	1,632	48	26,112 (2,426 sq. m)
	1.75 - 2.5 (44.45 - 64.0)	K	2.125 (54.0)	34	22	1,056	48	16,896 (1,570 sq. m)
	2.5" - 3.25" (64.0 - 82.55)	L	2.875 (73.0)	46	16	768	48	12,288 (1,142 sq. m)
3.25 - 4.0 (82.55 - 101.6)	M	3.625 (92.0)	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	18	864	48	13,824 (1,427 sq. m)
	2.5 - 3.5 (64.0 - 89.0)	Z	3.0 (76.0)	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 - 76.0)	H	2.5 (64.0)	40	19	912	48	14,592 (1,356 sq. m)
	3.0 - 4.0 (76.0 - 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 - 88.9)	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 (44.4)	28	26	1,248	48	19,968 (1,855 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 - 76.0)	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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