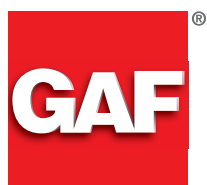


**EnergyGuard™ Ultra
Polyiso Insulation
Sell Sheet**
(COMGT319)

Updated: 6/16

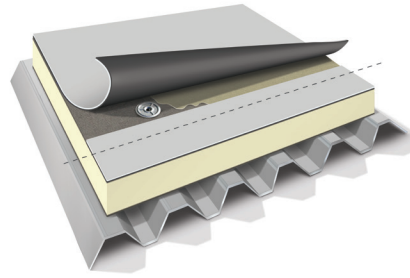


*Quality You Can Trust...From
North America's Largest Roofing Manufacturer!™*



Quality You Can Trust... From North America's Largest Roofing Manufacturer!™

EnergyGuard™ **ULTRA** POLYISO INSULATION



Description

EnergyGuard™ Ultra Polyiso Insulation board is made of coated glass facers bonded to a polyiso foam core. EnergyGuard™ Ultra Polyiso Insulation manufactured in our plants uses the latest technology in manufacturing to provide a product of the highest quality.

Features and Benefits

- Improved fire resistance — achieves a Class A rating over combustible decks without the use of a gypsum board or fire-rated slip sheet. When used with single-ply TPO, a total of at least 3" (76 mm) of EnergyGuard™ Ultra is required; a Class B fire rating is also obtained when using at least a single layer of 1.5" (38.1 mm) EnergyGuard™ Ultra Polyiso Insulation.
- Meets the requirements of ASTM D3273 for resistance to mold growth
- EnergyGuard™ Ultra Polyiso Insulation board is designed for use in practically any low-slope roof application, including built-up roofs, modified bitumen, or most single-ply roofing systems
- High insulation value — Excellent "LTTR" value compared to any other FM Class I rated product of equivalent thickness at 5.7 per inch
- Meets the requirements of ASTM C1289 Type II, Class 2, Grade 2 (20 psi), and available in Grade 3 (25 psi)

- Because of its light weight, this material is easy to handle on the job site and installs faster. Easier cutting in the field provides the installer with simplified fabricating on the roof deck.
- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs; has zero ozone depletion potential (ODP) and virtually no global warming potential (GWP)
- Available in a variety of thicknesses from 1.0" (25.4 mm) to 4.6" (116 mm) to best suit your needs
- Available in 4' x 4' (1.21 m x 1.21 m) and 4' x 8' (1.21 m x 2.44 m) boards
- Tapered panels are also available for when the roof design requires improved drainage in slopes of 1/16" (1.59 mm), 3/16" (4.76 mm), 1/8" (3.18 mm), 3/8" (9.53 mm), 1/4" (6.35 mm), and 1/2" (12.7 mm)

EnergyGuard™ Ultra Flat Stock Polyiso Insulation and Tapered Polyiso Insulation Codes & Compliance

- FM Approved—consult RoofNav.com for specific assemblies
- UL Classified—consult ul.com for specific assemblies
- For additional information, contact GAF Technical Services at 1-800-ROOF-411 or technicalquestions@gaf.com

TYPICAL PHYSICAL PROPERTY DATA CHART (POLYISO FOAM CORE ONLY)

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM D1621	≥ 20 psi
Dimensional Stability (Length + Width)	ASTM D2126	< 2%
Water Absorption	ASTM C209	< 1.5%
Moisture Vapor Transmission	ASTM E96	< 1.5 Perm
Service Temperature		-100° to 250°F
Flame Spread Index	ASTM E84	< 75*
Smoke Developed Index	ASTM E84	< 200*

*Foam Core

POLYISO INSULATION

Flat Stock and Tapered Boards

gaf.com

Flat Stock Physical Characteristics and Shipping Information

Physical Characteristics			Shipping Information (4' x 4') (1.21 m x 1.21 m)						Shipping Information (4' x 8') (1.21 m x 2.44 m)					
Size*	R-Value	Max Flute Span (in)	Bds/Bundle	Bds/Truck	Bundles/Truck	Squares Per Bundle	Sq. Ft. Per Bundle	Sq. Ft. Per Truck	Bds/Bundle	Bds/Truck	Bundles/Truck	Squares Per Bundle	Sq. Ft. Per Bundle	Sq. Ft. Per Truck
1.0" (25.4 mm)	5.7	2 5/8" (66.7 mm)	48	2,304	48	7.68	768	36,864 (2,425 sq. m)	48	1,152	24	15.36	1536	36,864 (2,425 sq. m)
1.1" (27.9 mm)	6.3	2 5/8" (66.7 mm)	43	2,064	48	6.88	688	33,024 (3,068 sq. m)	43	1,032	24	13.76	1376	33,024 (3,068 sq. m)
1.2" (30.5 mm)	6.8	2 5/8" (66.7 mm)	38	1,824	48	6.08	608	29,184 (2,711 sq. m)	38	912	24	12.16	1216	29,184 (2,711 sq. m)
1.3" (33 mm)	7.4	2 5/8" (66.7 mm)	36	1,728	48	5.76	576	27,648 (2,568 sq. m)	36	864	24	11.52	1152	27,648 (2,568 sq. m)
1.4" (35.6 mm)	8.0	4 3/8" (111 mm)	34	1,632	48	5.44	544	26,112 (2,426 sq. m)	34	816	24	10.88	1088	26,112 (2,426 sq. m)
1.5" (38.1 mm)	8.6	4 3/8" (111 mm)	32	1,536	48	5.12	512	24,576 (2,283 sq. m)	32	768	24	10.24	1024	24,576 (2,283 sq. m)
1.6" (40.6 mm)	9.1	4 3/8" (111 mm)	30	1,440	48	4.8	480	23,040 (2,140 sq. m)	30	720	24	9.60	960	23,040 (2,140 sq. m)
1.7" (43.1 mm)	9.7	4 3/8" (111 mm)	28	1,344	48	4.48	448	21,504 (1,998 sq. m)	28	672	24	8.96	896	21,504 (1,998 sq. m)
1.75" (44.4 mm)	10	4 3/8" (111 mm)	27	1,296	48	4.32	432	20,736 (1,926 sq. m)	27	648	24	8.64	864	20,736 (1,926 sq. m)
1.8" (45.7 mm)	10.3	4 3/8" (111 mm)	25	1,200	48	4	400	19,200 (1,784 sq. m)	25	600	24	8.00	800	19,200 (1,984 sq. m)
1.9" (48.3 mm)	10.8	4 3/8" (111 mm)	25	1,200	48	4	400	19,200 (1,784 sq. m)	25	600	24	8.00	800	19,200 (1,784 sq. m)
2.0" (51 mm)	11.4	4 3/8" (111 mm)	24	1,152	48	3.84	384	18,432 (1,712 sq. m)	24	576	24	7.68	768	18,432 (1,712 sq. m)
2.1" (53 mm)	12.0	4 3/8" (111 mm)	22	1,056	48	3.52	352	16,896 (1,570 sq. m)	22	528	24	7.04	704	16,896 (1,570 sq. m)
2.2" (56 mm)	12.6	4 3/8" (111 mm)	21	1,008	48	3.36	336	16,128 (1,498 sq. m)	21	504	24	6.72	672	16,128 (1,498 sq. m)
2.3" (58 mm)	13.2	4 3/8" (111 mm)	20	960	48	3.2	320	15,360 (1,427 sq. m)	20	480	24	6.40	640	15,360 (1,427 sq. m)
2.4" (61 mm)	13.8	4 3/8" (111 mm)	20	960	48	3.2	320	15,360 (1,427 sq. m)	20	480	24	6.40	640	15,360 (1,427 sq. m)
2.5" (64 mm)	14.4	4 3/8" (111 mm)	19	912	48	3.04	304	14,584 (1,356 sq. m)	19	456	24	6.08	608	14,584 (1,356 sq. m)
2.6" (66 mm)	15.0	4 3/8" (111 mm)	18	864	48	2.88	288	13,824 (1,284 sq. m)	18	432	24	5.76	576	13,824 (1,284 sq. m)
2.7" (69 mm)	15.6	4 3/8" (111 mm)	17	816	48	2.72	272	13,056 (1,213 sq. m)	17	408	24	5.44	544	13,056 (1,213 sq. m)
2.8" (71 mm)	16.2	4 3/8" (111 mm)	17	816	48	2.72	272	13,056 (1,213 sq. m)	17	408	24	5.44	544	13,056 (1,213 sq. m)
2.9" (74 mm)	16.8	4 3/8" (111 mm)	16	768	48	2.56	256	12,288 (1,142 sq. m)	16	384	24	5.12	512	12,288 (1,142 sq. m)
3.0" (76 mm)	17.4	4 3/8" (111 mm)	16	768	48	2.56	256	12,288 (1,142 sq. m)	16	384	24	5.12	512	12,288 (1,142 sq. m)
3.1" (79 mm)	18.0	4 3/8" (111 mm)	15	720	48	2.4	240	11,520 (1,070 sq. m)	15	360	24	4.80	480	11,520 (1,070 sq. m)
3.2" (81 mm)	18.6	4 3/8" (111 mm)	15	720	48	2.4	240	11,520 (1,070 sq. m)	15	360	24	4.80	480	11,520 (1,070 sq. m)
3.25" (83 mm)	18.9	4 3/8" (111 mm)	14	672	48	2.24	224	10,752 (999 sq. m)	14	336	24	4.48	448	10,752 (999 sq. m)
3.3" (84 mm)	19.2	4 3/8" (111 mm)	14	672	48	2.24	224	10,752 (999 sq. m)	14	336	24	4.48	448	10,752 (999 sq. m)
3.4" (86 mm)	19.9	4 3/8" (111 mm)	14	672	48	2.24	224	10,752 (999 sq. m)	14	336	24	4.48	448	10,752 (999 sq. m)
3.5" (89 mm)	20.5	4 3/8" (111 mm)	13	624	48	2.08	208	9,984 (928 sq. m)	13	312	24	4.16	416	9,984 (928 sq. m)
3.6" (91 mm)	21.1	4 3/8" (111 mm)	13	624	48	2.08	208	9,984 (928 sq. m)	13	312	24	4.16	416	9,984 (928 sq. m)
3.7" (94 mm)	21.7	4 3/8" (111 mm)	12	576	48	1.92	192	9,216 (856 sq. m)	12	288	24	3.84	384	9,216 (856 sq. m)
3.8" (97 mm)	22.3	4 3/8" (111 mm)	12	576	48	1.92	192	9,216 (856 sq. m)	12	288	24	3.84	384	9,216 (856 sq. m)
3.9" (99 mm)	23.0	4 3/8" (111 mm)	12	576	48	1.92	192	9,216 (856 sq. m)	12	288	24	3.84	384	9,216 (856 sq. m)
4.0" (102 mm)	23.6	4 3/8" (111 mm)	12	576	48	1.92	192	9,216 (856 sq. m)	12	288	24	3.84	384	9,216 (856 sq. m)
4.1" (104 mm)	24.2	4 3/8" (111 mm)	11	528	48	1.76	176	8,448 (785 sq. m)	11	264	24	3.52	352	8,448 (785 sq. m)
4.2" (106 mm)	24.9	4 3/8" (111 mm)	11	528	48	1.76	176	8,449 (785 sq. m)	11	264	24	3.52	352	8,449 (785 sq. m)
4.3" (109 mm)	25.5	4 3/8" (111 mm)	11	528	48	1.76	176	8,450 (785 sq. m)	11	264	24	3.52	352	8,450 (785 sq. m)
4.4" (112 mm)	26.1	4 3/8" (111 mm)	10	480	48	1.6	160	7,680 (713 sq. m)	10	240	24	3.20	320	7,680 (713 sq. m)
4.5" (114 mm)	26.8	4 3/8" (111 mm)	10	480	48	1.6	160	7,680 (713 sq. m)	10	240	24	3.20	320	7,680 (713 sq. m)
4.6" (116 mm)	27.1	4 3/8" (111 mm)	10	480	48	1.6	160	7,680 (713 sq. m)	10	240	24	3.20	320	7,680 (713 sq. m)

Tapered Physical Characteristics and Shipping Information

Physical Characteristics		Shipping Information (4' x 4') (1.21 m x 1.21 m)				
Slope	Thickness	Size*	Bds/Bundle	Bds/Truck	Bundles/Truck	Sq. Ft. Per Truck
1/8" (3.18 mm)	.5"-1" (12.7 mm - 25.4 mm)	AA	64	3,072	48	49,152 (4,566 sq. m)
	1"-1.5" (25.4 mm - 38.1 mm)	A	38	1,824	48	29,184 (2,711 sq. m)
	1.5"-2" (38.1 mm - 51 mm)	B	26	1,248	48	19,968 (1,855 sq. m)
	2"-2.5" (51 mm - 64 mm)	C	20	960	48	15,360 (1,427 sq. m)
	2.5"-3" (64 mm - 76 mm)	D	16	768	48	12,288 (1,142 sq. m)
	3"-3.5" (76 mm - 89 mm)	E	14	672	48	10,752 (999 sq. m)
	3.5"-4" (89 mm - 102 mm)	F	12	576	48	9,216 (856 sq. m)
1/4" (6.35 mm)	.5"-1.5" (12.7 mm - 38.1 mm)	X	48	2,304	48	36,864 (3,425 sq. m)
	1.5"-2.5" (38.1 mm - 64 mm)	Y	24	1,152	48	18,432 (1,712 sq. m)
	2.5"-3.5" (64 mm - 89 mm)	Z	16	768	48	12,288 (1,142 sq. m)
	1"-2" (25.4 mm - 51 mm)	G	32	1,536	48	24,576 (2,283 sq. m)
	2"-3" (51 mm - 76 mm)	H	19	912	48	14,592 (1,356 sq. m)
	3"-4" (76 mm - 102 mm)	I	12	576	48	9,216 (856 sq. m)
1/2" (12.7 mm)	.5"-2.5" (12.7 mm - 64 mm)	Q	32	1,536	48	24,576 (2,283 sq. m)
	1"-3" (25.4 mm - 76 mm)	XX	22	1,056	48	16,896 (1,570 sq. m)

*Other sizes available upon request

