ENERGYGUARD™ NH
TAPERED POLYISO INSULATION, 20 & 25 PSI (1 of 2)

Description
EnergyGuard™ NH Tapered Polyiso Insulation provides a high R-Value with a non-halogenated polyisocyanurate core bonded between glass fiber-reinforced cellulosic felt facers. It is readily available in various slope profiles, including the efficient and most popular tapers: 1/8:12 (1%), 1/4:12 (2%), and 1/2:12 (4%).

Uses
- EnergyGuard™ NH Tapered Polyiso Insulation is ideal for use over structural roof decks that do not have built-in slope to divert water to drains or scuppers—contributing to the overall R-Value of the roofing system.
- When properly installed, it is suitable for use under built-up, modified bitumen, and single-ply roofing systems.
- For additional information on application, contact GAF Technical Support at 1-877-GAF-ROOF or technicalquestions@gaf.com.

Advantages
- Properly designed and installed EnergyGuard™ NH Tapered Polyiso Insulation Systems can help eliminate ponding water.
- Delivers the highest R-value per inch compared to non-poyiso options.
- Can be easily installed with mechanical fasteners, low-rise foam, hot asphalt, or loose-laid in a ballasted system.
- Low point and letter codes are designated on each board.
- GAF's Tapered Design Group (TDG) can provide tapered insulation layouts from your plans and field-verified dimensions. For more information on tapered designs, please contact the GAF Tapered Design Group at TDG@gaf.com.

Precautions
- EnergyGuard™ NH Tapered Polyiso Insulation is a non-structural, non-load-bearing board. It is not designed for direct traffic usage unless adequately protected.
- EnergyGuard™ NH Tapered Polyiso Insulation should be stored dry and protected from the elements. Once properly loaded at the job site, remove factory wraps and cover with a breathable tarp.
- As an unprotected polyisocyanurate will burn, fire safety precautions must be observed wherever any insulation products are used.
- Direct torching of modified bitumen roofing to EnergyGuard™ NH Tapered Polyiso Insulation will present a fire hazard. A properly installed fiberglass base sheet MUST be used over the insulation.
- These tapered systems are designed to provide a top surface of slope. Each board is manufactured to exact thickness specifications. GAF is not responsible for field conditions, including actual building dimensions and deck deflection.

WARNING: DO NOT EXPOSE TO OPEN FLAME OR EXCESSIVE HEAT. MAY SMOLDER IF IGNITED. IF IGNITED, EXTINGUISH COMPLETELY.

EnergyGuard™ NH Tapered Polyiso Insulation

Tapered Physical Characteristics

TAPERED PANELS - 4' X 4'

	BOARD STYLE	DIMENSIONS IN INCHES	AVERAGE THICKNESS	BD FEET PER PANEL
1/8	AA	0.5" - 1"	0.75"	12
	A	1" - 1.5"	1.25"	20
	B	1.5" - 2"	1.75"	28
	C	2" - 2.5"	2.25"	36
	* D	2.5" - 3"	2.75"	44
	* E	3" - 3.5"	3.25"	52
	* F	3.5" - 4"	3.75"	60
	* FF	4" - 4.5"	4.25"	68
1/4	X	0.5" - 1.5"	1"	16
	Y	1.5" - 2.5"	2"	32
	* Z	2.5" - 3.5"	3"	48
	* ZZ	3.5" - 4.5"	4"	64
	G	1" - 2"	1.5"	24
	H	2" - 3"	2.5"	40
	* I	3" - 4"	3.5"	56
1/2	Q	0.5" - 2.5"	1.5"	24
	* QQ	2.5" - 4.5"	3.5"	56
	* XX	1" - 3"	2"	32
3/16	* JJ	0.5" - 1.25"	0.875"	14
	* KK	1.25" - 2"	1.625"	26
	* LL	2" - 2.75"	2.375"	38
	* MM	2.75" - 3.5"	3.125"	50
	* J	1" - 1.75"	1.375"	22
	* K	1.75" - 2.5"	2.125"	34
	* L	2.5" - 3.25"	2.875"	46
	* M	3.25" - 4"	3.625"	58
3/8	*SS	0.5" - 2"	1.25"	20
	*TT	2" - 3.5"	2.75"	44
	*S	1" - 2.5"	1.75"	28
1/16	1	0.5" - .75"	0.625"	10
	2	.75" - 1"	0.875"	14
	3	1" - 1.25"	1.125"	18
	4	1.25" - 1.5"	1.375"	22
	5	1.5" - 1.75"	1.625"	26
	6	1.75" - 2"	1.875"	30
	* 7	2" - 2.25"	2.125"	34
	* 8	2.25" - 2.5"	2.375"	38

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

Code Compliance

CLASSIFIED C UL US

FM APPROVED

GREENGUARD GOLD

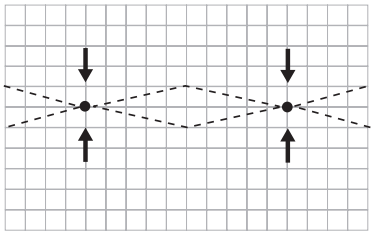
State of Florida Approved

ENERGYGUARD™ NH
TAPERED POLYISO INSULATION, 20 & 25 PSI (2 of 2)

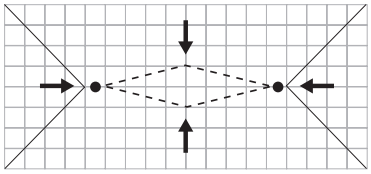
Installation Suggestions: Although each tapered system is different, here are some suggested methods for installing a Tapered Polyiso Insulation system efficiently.

1. Verify building dimensions and drain locations with the Tapered Polyiso Insulation Shop Drawing. Discrepancies should be reported to GAF prior to shipment.
2. Verify that the proper number of truckloads and piece quantities have been received on the job site.
3. Determine the area to be completed that day.
4. Measure the distance from the drain to the perimeter where the shop drawing indicates full 4' x 4' (1.22 m x 1.22 m) insulation boards. Verify that the system will meet the drain piece.
5. Start installing the tapered system utilizing full 4' x 4' (1.22 m x 1.22 m) boards. Work from the drain and finish the area where the shop drawing indicates field cutting.
6. When more than one layer of insulation is utilized, all vertical board joints should be staggered, preferably by ½ board.
7. Cover the insulation with the complete membrane system the same day.

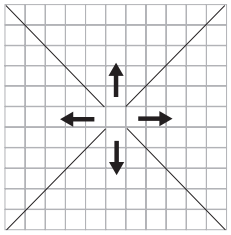
Typical Tapered Layouts



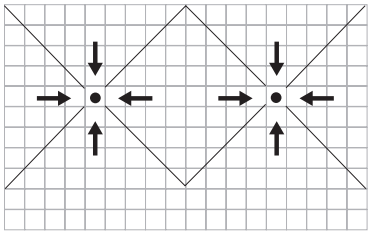
Two-Way Tapered System (With Crickets)



Modified Two-Way Tapered System with Constant Edge Thickness (With Crickets)

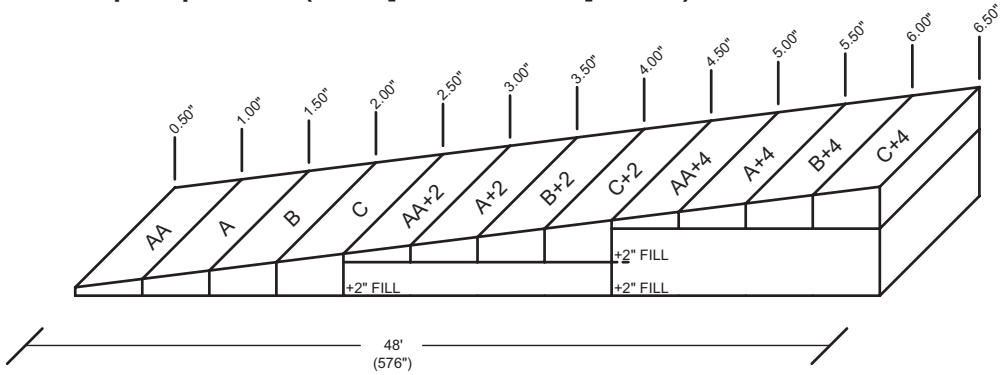


Four-Way Tapered System with Perimeter Drain



Four-Way Tapered System with Variable Edge Thickness

Typical Cross Section
1/8:12 Slope-Tapered Iso (4' x 4' [1.22 m x 1.22 m] Panels)



NOTE: Consult FM Loss Prevention Data Sheets 1-29, 1-49 for specific perimeter and corner fastening details. Due to ongoing testing programs and changes in FM Global requirements, the required number of fasteners and their placement are subject to change without notice. Consult current FM Approvals Guide and Loss Prevention Data Sheets 1-28, 1-29, and 1-29R for approved fastener density.