

EnergyGuard™ Perlite Tapered Roof Insulation

Data Sheet

Updated: 1/10



*Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™*



ENERGYGUARD™

PERLITE TAPERED ROOF INSULATION (1 of 2)

Description

- EnergyGuard™ Perlite Tapered Insulation is factory fabricated from EnergyGuard™ Perlite rigid perlite insulation board.
- Tapered roof insulation systems are supplied in 2' x 4' (0.6 m x 1.2 m) or 4' x 4' (1.2 m x 1.2 m) boards, custom cut and tapered to 1/16" (1/2%), 1/8" (1%), 1/4" (2%), and 1/2" (4%) per foot (5.2, 10.4, 20.8, or 41.6mm/m) slope depending on the need. Custom sizes are available.
- Quality EnergyGuard™ Perlite or Polyiso roof insulation is used as fill insulation to complete the system.

Uses

- To create positive drainage on new roofs and reroofs.
- To eliminate trouble spots on roof where and when ponding is a problem.
- Properly installed, EnergyGuard™ Perlite roof insulation is suitable for use under built-up, modified bitumen and some single ply roofing systems.
- Refer to the application specifications in the current Membrane Manufacturer's Application and Specifications Manual for proper installation procedures for EnergyGuard™ Perlite roof insulation.

Advantages

- Environmentally Friendly. The minimum recycled content is 25% by weight. Complies with the Environmental Protection Agency Regulation 40 CFR Part 248, Guideline for Federal Procurement of Building Insulation Products Containing Recovered Materials, as a recycled product approved for use on any project using federal funds.

Limitations

- EnergyGuard™ Tapered Perlite roof insulation is a non-structural, non-load bearing material.
- EnergyGuard™ Tapered Perlite roof insulation should be stored dry and be protected from the elements. Once properly loaded at the job site, remove factory wraps and cover with a breathable tarp.
- No more insulation should be applied than can be completely covered with finished roofing on the same day.
- Do NOT use under fully adhered single ply systems or with direct torch application of modified bitumen.
- If torch grade modified bitumen roofing is to be installed over EnergyGuard™ Perlite, a fiberglass base sheet MUST be installed.

Installation Suggestions for Tapered Systems

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

1. Verify building dimensions and drain locations with the Tapered Roof Insulation Shop Drawing. Discrepancies should be reported to BMCA 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 insulation boards. Verify that the system will meet the drain piece.
5. Start installing the tapered system utilizing full 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 1/2 board.
7. Cover the insulation with the complete membrane system the same day.

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

EnergyGuard™
Perlite Roof Insulation



EnergyGuard™ Tapered Perlite
Insulation Values

Average Thickness		Nominal	
Inches	mm	"C" Values*	"R" Values**
1"	25	.36	2.78
1 1/2"	38	.24	4.17
2"	50	.18	5.56
2 1/2"	64	.15	6.67
3"	75	.12	8.33
3 1/2"	89	.105	9.52
4"	102	.09	11.11

* BTU/(hr. ft². °F)

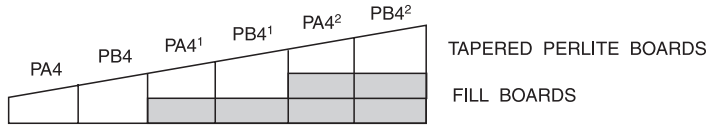
** (hr. ft². °F)/BTU



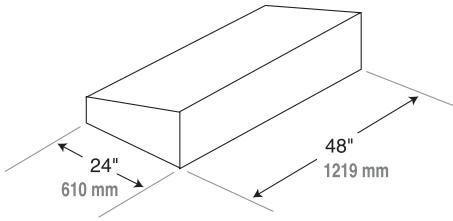
ENERGYGUARD™

PERLITE TAPERED ROOF INSULATION (2 of 2)

Typical EnergyGuard™ Tapered Perlite System

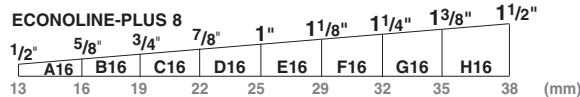
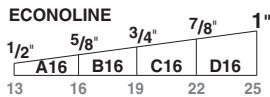


Typical EnergyGuard™ Tapered Perlite Panel Size (NOTE: Measurements in GRAY are in millimeters)

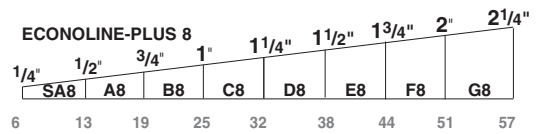
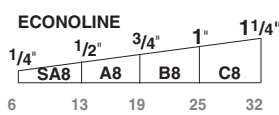
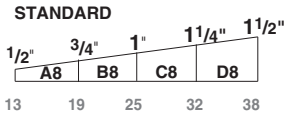


EnergyGuard™ Tapered Roof Insulation Systems (NOTE: Measurements in GRAY are in millimeters)

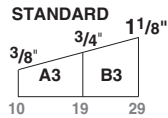
1/16" Per Foot 1/2%



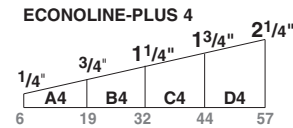
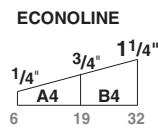
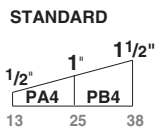
1/8" Per Foot 1%



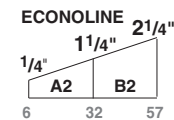
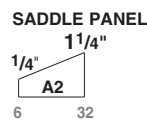
3/16" Per Foot 1.5%



1/4" Per Foot 2%



1/2" Per Foot 4%



Note: Other sizes and special laminations are available on a made-to-order basis.

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