



ENERGYGUARD™

PERLITE RECOVER BOARD

Description

EnergyGuard™ Perlite Recover Board is a heavier duty 1/2" (13 mm) thick perlite roof insulation board composed of expanded perlite, cellulose binders, and waterproofing agents. It is treated for surface retention of bitumen and available in 2' x 4' (610 mm x 1.22 m), 4' x 4' (1.22 m x 1.22 m), and 4' x 8' (1.22 m x 2.44 m), with a nominal thickness of 1/2" (13 mm).

Uses

- Meets the requirements of ASTM C728, Type 2.
- In reroofing as a base for a variety of membranes installed over failed or worn-out roof systems.
- As a top layer in two-layer systems.
- As an overlay board where an existing roof insulation is still functioning and should be retained.
- Where a tear-off would create unwarranted risks to operations or materials in the building.
- To separate a new membrane from a rough or irregular deck.
- Properly installed, EnergyGuard™ Perlite Recover Board roof insulation is suitable for use under built-up and modified bitumen roofing systems.

Advantages

- Economical base for reroofing.
- Protects new roofs from old roof problems.
- Lower installed cost than tear-offs.
- Dimensionally stable.
- Better for the environment — the average recycled content is 39% by weight.

Limitations

- Old roofing systems must be thoroughly dried and secured before Recover Board is applied as a part of a new roof system.
- Recover Board is not acceptable for applications where it will be directly exposed to continuous soaking or temperatures in excess of 250°F (121.1°C).
- EnergyGuard™ Perlite Recover Board 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.

- Do **NOT** mechanically attach 1/2 inch (13 mm) recover board directly to steel decks.

Limitations (Continued)

- If torch-grade modified bitumen roofing is to be installed over EnergyGuard™ Perlite, a fiberglass base sheet **MUST** first be installed.

Application

Recover Board can be secured by mechanical fastening or hot asphalt. If the deck is non-nailable, strip mopping is recommended to allow for moisture pressure release. **Solid mopping with asphalt should not be used for re-cover or retrofit applications.** Refer to the application specifications in the current membrane manufacturer's application and specifications manual for proper installation procedures.

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

Code Compliance



Thermal Values⁽¹⁾

Thickness* (nominal)		"C" value (Conductance)		R-Value (Resistance)	
Inches	mm	BTU/(hr·ft²·°F)	W/m²·°C	m²·°C/W	(hr·ft²·°F)/BTU
0.5	12.7	0.76	4.3	1.32	0.23

Note: All sizes are nominal.

Typical Physical Properties⁽¹⁾

Typical Physical Properties	Value	Test Method
Water Absorption, % by Volume – 2 hours	3.5 max.	ASTM C209
Compression Resistance 5% Consolidation—psi (kPa)	35 (241)	ASTM C165
Laminar Tensile Strength — psi (kPa)	6.0 (41)	ASTM C209
Flexural Strength — psi (kPa)	60 (414)	ASTM C203
Product Density — pcf (kg/m³)	12 (192)	ASTM C209
Lineal Expansion	0.5% max.	ASTM C209
Flame Spread	30	ASTM E84
Smoked Developed	20	ASTM E84

⁽¹⁾Note: Physical and thermal properties shown are based on data obtained under controlled laboratory conditions and are subject to normal manufacturing tolerances.

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