

# EnergyGuard™ Perlite Recover Board

Data Sheet

Updated: 1/10



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From North America's Largest Roofing Manufacturer™*



# ENERGYGUARD™ PERLITE RECOVER BOARD

## Description

EnergyGuard™ Perlite Recover Board is a heavier duty **1/2" 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' (0.6m x 1.2m) 4' x 4' (1.2m x 1.2m) and 4' x 8' (1.2m x 2.4m), with a nominal thickness of 1/2" (13mm).

## Uses

- 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, modified bitumen and some single ply roofing systems.

## Advantages

- Economical base for reroofing.
- Protects new roofs from old roof problems.
- Lower installed cost than tear-offs.
- Dimensionally stable.
- **Environmentally friendly.** The minimum recycled content is 25% 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.
- 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 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.
- Do NOT mechanically attach 1/2 inch recover board directly to steel decks.

## 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 recover 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

Recover Board is in compliance with:

ASTM Standard C728.

UL, ULC Class A construction on combustible or non-combustible roof decks. Where UL, ULC labels are required, customer must order them in advance.

FM for fire and wind resistance. For current approvals, see current Factory Mutual Approvals Guide.

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.

## Thermal Values<sup>(1)</sup>

Thickness* (nominal)		"C" value (Conductance)		R-Value (Resistance)	
Inches	mm	BTU/(hr·ft <sup>2</sup> ·°F)	W/m <sup>2</sup> ·°C	m <sup>2</sup> ·C/W	(hr·ft <sup>2</sup> ·°F)/BTU
0.5	13	0.76	4.3	1.32	0.23

## Typical Physical Properties<sup>(1)</sup>

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
10% Consolidation—psi (kPa)	50 (345)	
Laminar Tensile Strength — psi (kPa)	4.9 (33.8)	ASTM C209
Flexural Strength — psi (kPa)	60 (414)	ASTM C203
Product Density — pcf (kg/m <sup>3</sup> )	11-14 (176 - 224)	ASTM C209
Linear Expansion	0.5% max.	ASTM C209/ ASTM D1037

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

EnergyGuard™  
Perlite Recover Board



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