



Perma BG+

Below Grade Termite/Insect Resistant Laminated EPS Foam Insulation

PermaBG+
Below Grade Insulation



APPLICATIONS

- Ideal below grade perimeter or sub-slab insulation
- May also be used in cavity walls where local jurisdictional code requires insect treated foam insulation

WHY PERMA BG+?

- Rugged facers on both sides to handle the tough environment around and below foundations
- EPS core is treated with an insecticide to provide resistance against various types of insects, including termites
- Excellent energy cost savings
- Incorporates a laminated, tough polypropylene facer on both sides for added strength and durability in storing, handling and installation
- Available in a wide range of compressive strengths (10 to 60 psi) allowing it to withstand load and backfill forces
- EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs

Sizes

- Available in 2' x 8' & 4' x 8' boards
- Density (pcf): 1.0 to 3.0 lb/ft³
- Thicknesses up to 6 in.

*Reach out to your Cellofoam® sales representative for certain size availability



WWW.CELLOFOAM.COM
800-468-3626





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CODE APPROVALS

- Complies with model building codes including the **IBC, IRC, and IECC**
- EPS core is Underwriters Laboratory Listed, **UL ER7260**

EPS TYPICAL PHYSICAL PROPERTIES

Cellofoam® EPS Typical 1 Physical Properties		Units	ASTM Test	Type I	ASTM C578 Type		
					Type VIII	Type II	Type IX
Density (Nominal)		lb/f³	C303 or	1.0	1.25	1.5	2.0
Density (Minimum)		lb/f³	D1622	0.90	1.15	1.35	1.80
Thermal Resistance							
R-Value²	at 25 °F	(°F ft² hr) / Btu per inch	C177 or C518	4.35	4.54	4.76	5.00
	at 40 °F			4.17	4.25	4.55	4.76
	at 75 °F			3.85	3.92	4.17	4.35
Compressive Strength at 10% deformation		psi	D1621	10 - 14	13 - 18	15 - 21	25 - 33
Flexural Strength		psi	C203	25 - 30	30 - 38	40 - 50	50 - 75
Water Vapor Permeance 1.0 in. thickness		perm.	E96	2.0 - 3.0	1.5 - 2.8	0.9 - 2.5	0.6 - 1.5
Water Absorption by total immersion		volume %	C272 or C1763	< 1.5	< 1.5	< 1.5	< 1.5
Capillarity		--	--	none	none	none	none
Dimensional Stability maximum		change %	D2126	< 0.5	< 0.5	< 0.5	< 0.5
Coefficient of Thermal Expansion		in/(in °F)	D696	0.000035	0.000035	0.000035	0.000035
Fungus & Bacterial Resistance		-	C1338	Will not support bacterial or fungus growth; no food value			
1 Typical physical properties are based on data provided by resin manufacturer, independent test agencies, and Cellofoam North America Inc. All data is for plain, unlaminated EPS foam. 2 R means resistance to heat flow. The higher the R value, the greater the insulating power.							

*Please consult local building codes and membrane manufacturers for system requirements.

Warning: This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Protect Cellofoam® expanded polystyrene from exposure to hydrocarbons, coal tar pitch, solvents, and solvent fumes. Consult specific instructions and applicable building codes for use of this product.

Cellofoam® North America Inc. is an expanded polystyrene foam manufacturer and not an engineering consulting firm. Thus, it is beyond our scope to provide design services on the specific use for our products. Users of our EIFS EPS products should consult with appropriate engineering and code experts to determine the exact type and specifications of EPS required for their project. The sale of these products shall be subject to Terms and Conditions of Sale, including those limiting warranties as set forth in Cellofoam®'s invoices. No agent, employee, or representative of Cellofoam® North America Inc. or its subsidiary or affiliated companies is authorized to modify this disclaimer.