

Trusted Lightweight Fill.

PowerFoam Geofoam is a cellular plastic material that is strong, but has very low density (1% of traditional earth materials.) It is manufactured in block form and meets ASTM D6817, “Standard Specification for Rigid, Cellular Polystyrene Geofoam.”

Ready to Use.

PowerFoam Geofoam maximizes onsite installation efficiency: material arrives ready to place, no weather delays.

Quality Assurance.

PowerFoam Geofoam is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40338-01. PowerFoam Geofoam meets ASTM D6817, “Standard Specification for Rigid, Cellular Polystyrene Geofoam.”



Size and Shape.

PowerFoam Geofoam is produced in block form and is easily positioned at the work site. Standards sizes:

- 4’ (1.2 m) widths
- 8’ (2.4 m) up to 16’ (4.8 m) lengths
- 1” (25 mm) to 36” (914 mm) thickness

Other sizes and fabrication can be provided by the manufacturer.

Design.

For most applications, long-term design loads should not exceed the linear elastic range of PowerFoam Geofoam. Combined live and dead load stresses should not exceed the compressive resistance at 1% strain.


Additional Information.

Please consult the PowerFoam Geofoam TechData which provides additional information, design considerations, and technical information on the full range of Geofoam materials available. Please also refer to ASTM D6817, ASTM D7180, and ASTM D7557.

Termite Resistant.

One of the most destructive forces anywhere is termites. PowerFoam Geofoam can be manufactured with borate, a proven and safe additive, that effectively resists termites.

PowerFoam Geofoam with borate meets ICC ES AC239, “Acceptance Criteria for Termite-Resistant Foam Plastics”.

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|---|--|---|---------------|
| Density, min. ASTM C303 | lb/ft ³ (kg/m ³) | 0.70 (11.2) | |
| Compressive Resistance @ 1% deformation, min. ASTM D1621 | psi psf (kPa) | 2.2 320 (15) | |
| Elastic Modulus, min. ASTM D1621 | psi (kPa) | 220 (1550) | |
| Flexural Strength, min. ASTM C203, Procedure B | psi (kPa) | 10.0 (69) | |
| Buoyancy Force | lb/ft ³ (kg/m ³) | 61.7 (990) | |
| Water Absorption by total immersion, max., volume % ASTM C272 | | | 4.0 |
| R-value Powerl Resistance per 1.0 in. thickness ASTM C518 | 25°F | °F·ft ² ·h/Btu (°K·m ² /W) | 3.6 (0.63) |
| | 40°F | °F·ft ² ·h/Btu (°K·m ² /W) | 3.4 (0.60) |
| | 75°F | °F·ft ² ·h/Btu (°K·m ² /W) | 3.2 (0.57) |
| Flame Spread Index ¹ Smoke Developed Index ¹ ASTM E84/UL723 | | | <25 <450 |
| Oxygen Index, min., volume % ASTM D2863 | | | 24 |
| ASTM D6817 Compliance, Type | | | EPS12 |

¹Please refer to UL certificate for complete information.



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