

## Geofoam

Geofoam is a high-performance rigid board insulation product made from premium closed-cell, lightweight, mold, mildew and insect resistant expanded polystyrene (EPS). Geofoam provides superior compressive strength, R-value, and dimensional stability for a wide range of project applications. Geofoam meets or exceeds the highest standards under ASTM C578 and D6817 for expanded polystyrene, and is recognized by the ICC-ES.



**TYPE VIII EPS19**

## Advantages of Geofoam

- ◆ Long-term, Stable R-value: Geofoam has no thermal drift and its physical properties remain stable over its entire service life
- ◆ Mold, Mildew, and Insect Resistant: An inert EPA approved insect repelling additive is added during the manufacturing process to deter termites. Geofoam does not support mold or mildew growth
- ◆ Water Resistant, Closed Cell Foam: Geofoam will not readily absorb moisture from the environment
- ◆ Code Approvals: Geofoam is recognized by the International Code Council Evaluation Service (ICC-ES) and is manufactured from UL and FM approved raw materials
- ◆ Environmentally Friendly: Contains no CFC, HCFC, HFC or Formaldehyde and is 100% recyclable
- ◆ Independent Third Party Tested and Certified: Quarterly Testing Program
- ◆ Proven Performance Record: EPS products have been manufactured since the mid-1950's using the same fundamental chemistry Qualifies for LEED Credits

Geofoam - EPS Physical Properties			
Design Values		Type VIII	ASTM#
DENSITY, MIN (Description/classification name)	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	1.15 (18.4)	C303
R-VALUE (per inch) Thermal Resistance	@ 25 deg. F @ 40 deg. F @ 75 deg. F	4.4 4.2 3.8	C518 or C177
COMPRESSIVE RESISTANCE @ 10% Deformation	Minimum psi	16	D1621
FLEXURAL STRENGTH	Minimum psi	30.0	C203
WATER VAPOR PERMEABILITY	Maximum Permeability (per inch)	3.5	E96
WATER ABSORPTION (by total immersion)	% by Volume, maximum	3.0%	C272
DIMENSIONAL STABILITY	% Change, maximum	2.0%	D2126
OXYGEN INDEX	Volume %	24.0%	D2863
FLAME SPREAD	-	<20	E84
SMOKE DEVELOPED	-	150-300	E84

\*Other physical properties apply. See ASTM C578 and ASTM D6817.

## Typical Applications for Geofoam

Geofoam is commonly used within a variety of industrial, commercial and residential projects. These uses range from: structural void fill (geofoam), plaza deck & foundation insulation, roofing insulation, sheathing boards, EIFS insulation and drainage boards, protection packaging, to custom cut shapes & many more common applications. Geofoam is a versatile product that can meet most any specification for structural fill or insulation purposes.

## Advantages of Geofoam

- ◆ Geofoam is lightweight and easy to cut custom shapes and sizes from for any application.
- ◆ Geofoam is available in 2' x 8', 3' x 8', and 4' x 8' sheets, with thicknesses ranging from 1/4" to 48" thick.
- ◆ Geofoam also can be cut in custom lengths and widths with minimal impact on lead-times. Tapered panels are also available.

