E X P A N D E D P O L Y S T Y R E N E

InsulFoam® GF

Soft Soil Remediation

Lateral Load Reduction

Slope Stabilization

Buried Utility Protection

Structural Void Fill

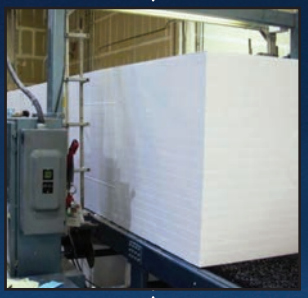
InsulFoam® GF Geofoam

INSULFOAM® A CARLISLE Company

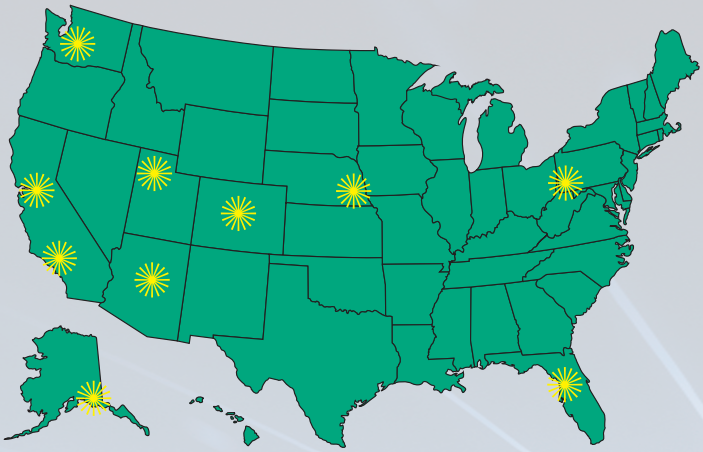
ENGINEERED EPS
Versatile - Durable - Recyclable

www.insulfoam.com

InsulFoam® GF



InsulFoam® GF is a premium geofoam material manufactured by the largest producer of block-molded EPS in North America. As a division of Carlisle Construction Materials, Insulfoam continues to advance methods in the building and construction industry by providing high-quality, dependable, and long-lasting products which offer unmatched performance and value.



Insulfoam – the only nationwide manufacturer of Geofoam

As a closed-cell expanded polystyrene (EPS) product, InsulFoam GF's lightweight, geo-synthetic fill characteristics offer a cost-effective and environmentally friendly alternative to traditional fill materials. Widely utilized in construction projects as a soil stabilizer, InsulFoam GF is also superb in engineered applications. Its lighter weight precludes surcharging, preloading or staging. InsulFoam GF's superior stability resists insects, mold, decomposition and severe weather conditions, including freeze-thaw cycles and moisture.

FEATURES AND BENEFITS

- Manufactured to meet your job specifications - multiple densities and various block sizes available
- Environmentally Friendly – 100% recyclable, no HCFCs or formaldehyde, will not sustain mold or mildew growth, maintenance free
- Ease of installation – lightweight, no need for heavy equipment, cuts easily with a hot wire or saw
- Weather Resistant – withstands freeze–thaw cycles, moisture and road salts
- Lightweight - minimize preloading, surcharging and staged construction
- Insect and Mold Resistant – can be manufactured with an additive that repels termites and ants

INSULFOAM MAKES IT EASY

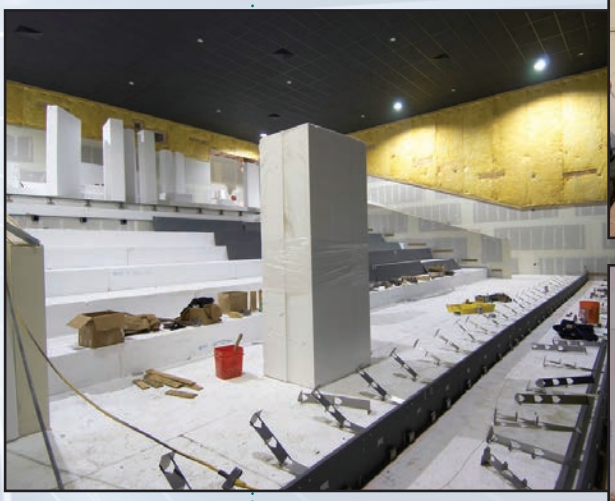
- Shop drawings
- Submittals
- Job start-up assistance
- Third-party testing
- Clear and concise product markings
- Ten, state-of-the-art manufacturing facilities

EARTHWORKS & STRUCTURAL

- Retaining Walls
- Berms and Embankments
- Parking Structures
- Foundations
- Loading Docks and Ramps
- Landscaping
- Lightweight Void Fill
- Levees and Dikes
- Buried Utility Protection

ARCHITECTURAL

- Theater and Stadium Seating
- Pools and Pool Decks
- Landscaping
- Retaining Walls
- Lightweight Void Fill
- Concrete Forming
- Garden Roofing



TRANSPORTATION

- Highways and Roads
- Railways
- Airport Runways
- Ramps
- Bridge Approaches
- Retaining Walls

TYPICAL PHYSICAL PROPERTIES OF INSULFOAM GF*

Type- ASTM D6817	Units	EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
Density, min.	lb/ft³ (kg/m³)	0.70 (11.2)	0.90 (14.4)	1.15 (18.4)	1.35 (21.6)	1.80 (28.8)	2.40 (38.4)	2.85 (45.7)
Compressive Resistance** min. @ 1% deformation	psi psf (kPa)	2.2 316.8 (15)	3.6 518.4 (25)	5.8 835.2 (40)	7.3 1051.2 (50)	10.9 1569.6 (75)	15.0 2160.0 (103)	18.6 2678.4 (128)
Compressive Resistance** min. @ 5% deformation	psi psf (kPa)	5.1 734.4 (35)	8.0 1152.0 (55)	13.1 1886.4 (90)	16.7 2404.8 (115)	24.7 3556.8 (170)	35.0 5040.0 (241)	43.5 6264.0 (300)
Compressive Resistance** min. @ 10% deformation	psi psf (kPa)	5.8 835.2 (40)	10.2 1468.8 (70)	16.0 2304.0 (110)	19.6 2822.4 (135)	29.0 4176.0 (200)	40.0 5760.0 (276)	50.0 7200.0 (345)
Flexural Strength, min.	psi (kPa)	10.0 (69)	25.0 (172)	30.0 (207)	40.0 (276)	50.0 (345)	60.0 (414)	75.0 (517)
Oxygen Index, min.	volume %	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Dimensional Stability	(max. %)	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%
Buoyancy Force	lb/ft³ (kg/m³)	61.7 (990)	61.5 (980)	61.3 (980)	61.1 (980)	60.6 (970)	60.0 (960)	59.5 (950)
Poisson's Ratio	–	.05	.05	.05	.05	.05	.05	.05
Coefficient of Friction	–	.6	.6	.6	.6	.6	.6	.6
Absorption	volume %	< 4.0	< 4.0	< 3.0	< 3.0	< 2.0	< 2.0	< 2.0
Elastic Modulus, min.	psi (kPa)	220 (1500)	360 (2500)	580 (4000)	730 (5000)	1090 (7500)	1500 (10300)	1860 (12800)

* Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam.
** For InsulFoam GF applications the design load stresses should not exceed 1% strain for combined live and dead loads. PSI x 144 = PSF

CODES AND COMPLIANCES

- Meets or exceeds the requirements of ASTM D6817 *Standard Specification for Rigid Cellular Polystyrene Geofoam*.
- Independent Third-Party testing through Underwriters Laboratories.

For installation instructions, specifications, samples and literature go to...

WWW.INSULFOAM.COM

INSULFOAM GF - ENGINEERED APPLICATION PROJECTS

- **Controlling Excessive Soil Settlement** - *Wythe County Hospital, Wytheville, VA*
- **Road Widening** - *IN I80/I65 Indiana DOT project - Gary, IN*
- **Theater Seating** - *Harkins Theater, Denver, CO*
- **Elimination of Lateral Loads** - *Lowe's RFI342, San Francisco, CA*
- **Pool Decks** - *Boran Craig Project, Tampa, FL*
- **Zero Lateral Load on Retaining Wall** - *Dubuque, IA*
- **Lightweight Fill on a Garage Deck** - *Capitol Park, Boise, ID*
- **Load Reduction on a Bridge Abutment** - *I80/148th Street Bridge, Waverly, NE*
- **Bridge Approach** - *Lombard Overpass, Portland, OR*
- **Utility Protection** - *Pulaski Skyway, Jersey City, NJ*
- **Levee Stabilization (Reduction in Loads)** - *North Creek Levee, Bothell, WA*

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