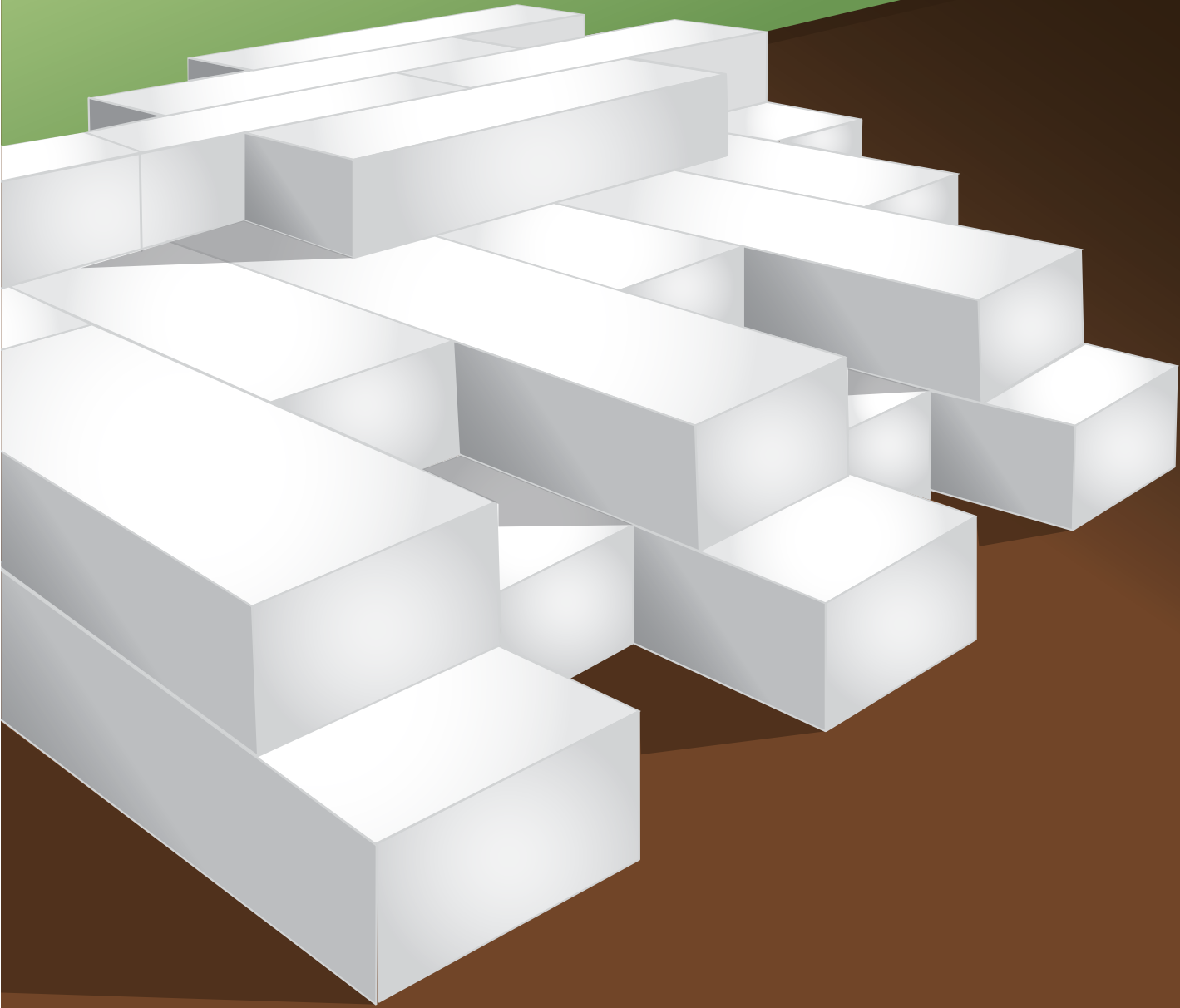


# **ELEVATION**™ Geofoam

**Tested. Proven. Trusted.**



TRANSPORTATION

LIGHT CONSTRUCTION/LANDSCAPING

NON-TRANSPORTATION



**ATLAS EPS**  
Solutions. Delivered.™

## WHY **ELEVATION™** GEOFOAM?

Elevation™ Geofoam is engineered to deliver the highest level of stability for transportation or structural projects and clean, quiet fill for hospital and occupied commercial projects:

- Elevation™ Geofoam products are 100 times lighter than soil
- Compressive strength @ 1% deformation ranges from 2.2 psi to 18.6 psi
- No physical strength or dimensional stability degradation from freeze-thaw cycles
- Prefabricated or custom production to meet specific project requirements or easily shaped in-field to install requirements
- No post installation maintenance required
- Closed-cell structure inhibits moisture absorption and the risk of mold or mildew growth
- All blocks trimmed for easy stacking of multiple layers and clearly labeled to indicate block location and density for smooth installation
- EPA-approved termiticide meets the strictest certifications in the market
- Shop drawings included, when necessary, that provide a graphic, block-by-block layout
- No preloading or pre-staging required, for shortened construction schedule
- Block certification offsets time-consuming, costly onsite material quality inspections

Our EPS is environmentally friendly and contains no CFCs, HCFCs or pentane. As an inert material, Elevation™ Geofoam products emit no leachates into the environment.

## APPLICATIONS

Its combination of light weight and compressive resistance makes Elevation™ Geofoam an attractive fill material for a wide variety of transportation and non-transportation applications, from slope and soil stabilization to roadbeds and pavement insulation.



### Non-transportation

- Stadium seating
- Floor leveling
- Retaining walls
- Swimming pool void fill
- Foundation stabilization
- Loading docks and ramps



### Transportation

- Bridge abutments
- Retaining structures
- Road widening
- Utility protection
- Hillside stabilization
- Berms and land forming
- Roadway sound barriers
- Plaza decks
- Embankments
- Parking structure planters



### Light Construction/ Residential Landscaping

- Berms and land forming
- Water features
- Retaining structures
- Golf course design and construction
- Large planters

# Atlas **ELEVATION**<sup>™</sup> Geofoam

All EPS products are not the same. Whether you're a construction specifier, architect or project manager, you want the best possible solution for your void and structural fill applications.

## THE GEOBLOCK SYSTEM,

gives you the assurance of proven, tested construction products made from the finest raw materials and manufactured by Atlas EPS, a division of Atlas Roofing, one of North America's largest construction products companies.



**CERTIFIED** - Backed by independent third-party certification

**RELIABLE** - Stable and predictable—for peace of mind on every project

**Think Beyond**

**The Block**

**SPECIALIZED** - We're specialists in geofoam design, processing and engineering

**DELIVERED** - From our plants to your job site—anywhere in North America

## FOR THE MOST RELIABLE AND PREDICTABLE GEOFOAM PRODUCT, "THINK BEYOND THE BLOCK."

### A true system backed by solid certification.

You want reliable performance from the products you specify. Atlas Elevation<sup>™</sup> Geofoam is engineered with consistent physical properties for the highest level of stability and predictability. Our products are backed by third-party UL certification of physical properties, including compressive resistance.

### Trust our specialists to meet your specifications.

From initial design and spec verification to project completion, our experienced geofoam specialists ensure every project stays on track and on time. We test all products before they leave the plant, using the most sophisticated processes available to ensure they pass any in-field inspection.

### Performance you can rely on. And on and on.

With 35 years of EPS manufacturing experience and 14 years of geofoam manufacturing expertise, no competitor offers you the proven performance you get with Atlas EPS. That's why we back our EPS with a 20-year warranty for compressive resistance, the best in the industry.

### We'll deliver on time, every time.

As a construction products manufacturer, Atlas EPS knows time is money. That's why we have multiple plant locations strategically located to ensure available capacity for any project, no matter the scope. Product delivery by our fleet ensures on-time deliveries and minimizes double-handling or pre-staged blocks.

**Why risk your reputation with an EPS manufacturer specializing in packaging? Think Beyond the Block, and build with Elevation<sup>™</sup> Geofoam today, for a stronger reputation tomorrow.**

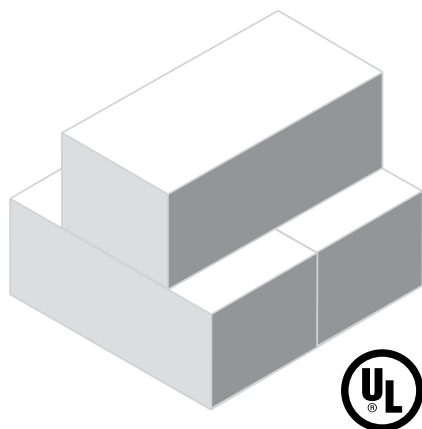
## PHYSICAL PROPERTIES\*

### PRODUCT SPECIFICATIONS:

- Density: ASTM Type designations EPS12, EPS15, EPS19, EPS22, EPS29, EPS39, EPS46 and compressive resistance at 1% deformation
- Dimensions: Thickness up to 40"; width up to 68"; length up to 24' to meet project geometry
- Standard Block Size: 32" or 40" x 48" x 96"
- Custom Sizes: From 1" to 40" thick
- Color: White

D6817 Classification >	EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
ASTM D6817 minimum density	0.70	0.9	1.15	1.35	1.8	2.4	2.85
ASTM D6817 Min Compression psi 1% Deform	2.2	3.6	5.8	7.3	10.9	15	18.6
Elevation™ Avg Compression psi 1% Deform	2.9	4.4	7.0	8.8	11.0	15.0	19.0
Compression psi 5% Deform	<b>Compressive Tests on 2" cubes per D6817. Note: permanent damage occurs between 1-2% deformation. Please contact Atlas EPS for specifications indicating 5% or 10% deformation. (See 3rd party certification.)</b>						
Compression psi 10% Deform							
Flexural Strength psi	10	25	30	40	50	60	75
Oxygen Index, Min vol%	24	24	24	24	24	24	24
Water Absorption	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Surface Burning	U.S. via E84 = Flame Spread 20 (75), Smoke Developed 400 (450)						
Termiticide	Second generation, EPA-registered pesticide treatment available.						
Connector Plates	4" x 4" galvanized steel plate with two-sided, multi-barbed design able to withstand 60 psi lateral pressure.						
Warranty	20-year warranty on physical properties, including compressive resistance.						
3rd Party Certification C578	<b>Certification for compressive strength @ 10% deformation which is not recommended for geofoam applications. (See 3rd party certification.)</b>						
3rd Party Certification D6817	<b>Reference U/L R16529.Q0RW @www.underswriterslaboratory.com Elevation™ geofoam for compressive strength @ 1% deformation; this ensures compressive performance.</b>						
Recycle Content	Elevation™ is an engineered product with predictable performance. While addition of recycle is possible in small quantities, this is NOT recommended.						
Marking	Each product marked for traceability and third-party compliance.						
Certification	Each load includes verification testing of compressive properties.						

\*The physical properties listed are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. This data is offered as a service to our customers and is subject to change. All information can be confirmed by contacting the Atlas EPS Technical Department.



**Excellent** = No degradation, no effect from exposure  
**Good** = Some effect from exposure, but not significant for product performance  
**Poor** = Significant degradation affecting performance, up to completely dissolving product  
 This table is a guide only — consult Atlas Technical Services for specific chemical design questions.

## COMPATIBILITY OF ATLAS EPS WITH COMMON CHEMICALS

Inorganic Acids (Muriatic, Sulfuric, Boric Acid)	Excellent
Organic Acids (Carolic, Citric, Acetic Acid)	Good
Bases (Sodium Hydroxide, Potassium Hydroxide, Ammonia)	Excellent
Alcohols (Methanol, Ethanol, Isopropyl Alcohol)	Good
Beer, Tea, Coffee, Carbonated Soda, Water, Fruit Juice	Excellent
Household Liquid Spray Insecticides (non-aqueous)	Poor
Cement	Excellent
MEK, Methylene Chloride, Acetone	Poor
Antifreeze (Ethylene Glycol – Green, Propylene Glycol – Orange)	Excellent
Hydrocarbons (Hoxane, Gasoline, Diesel, Kerosene)	Poor
Mineral Oil	Excellent
Other Oils (Corn, Motor, Palm, Coconut Oil)	Good
Agricultural (Manure, Food, Urine, Soil, Fertilizer)	Excellent
Formaldehyde, Turpentine, Chloroform, Naphtha	Poor
Salts (Ammonium, Ferrous, Sodium Chloride, Sulfur)	Excellent
MDI-based Adhesives (Gorilla Glue, Fast-Tac, Dow Great Stuff)	Good
Bleach, Detergents, Borax	Excellent
Cured Mastic, Construction Adhesive, Hardened Asphalt	Good



**ATLAS EPS**  
 8240 Byron Center Road SW  
 Byron Center, MI 49315  
 Tel: (800) 917-9138  
 Fax: (800) 626-9942

**MANUFACTURING PLANTS**  
 Byron Center, MI  
 Tijuana, MX  
 Perryville, MO

**ATLAS ROOFING**  
 2000 RiverEdge Parkway  
 Suite 800  
 Atlanta, GA 30328

