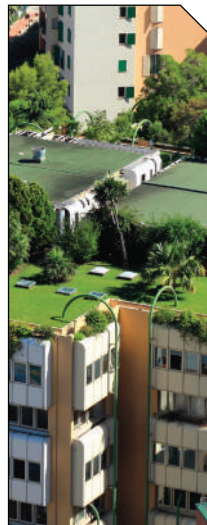




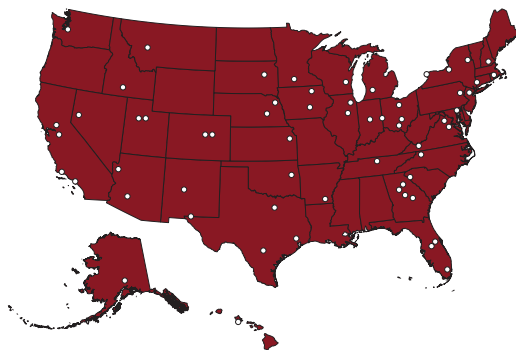
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Tapered EPS Insulation • TerraFlex Elasticized Polystyrene

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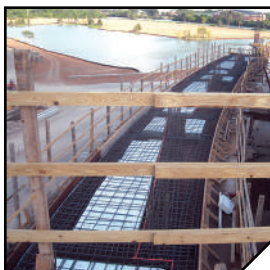
SOIL ALTERNATIVE

DRAINAGE



GEOFOAM

EPS geofoam is a lightweight, rigid foam material that has been used around the world as lightweight fill to solve a myriad of construction issues. EPS geofoam is approximately 100 times lighter than most soil and at least 20 to 30 times lighter than other lightweight fill alternatives. This difference in unit weight compared to other materials, and its high compression strength makes EPS geofoam an attractive fill material. Common uses included bridge and road work, retaining wall construction, and elevating floors.



		EPS12 TYPE XXI	EPS15 TYPE I	EPS19 TYPE VII	EPS22 TYPE II	EPS29 TYPE IX	EPS39 TYPE XIV	EPS46
Minimum Density	Lb/ft ³ (kg.m ³)	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 @ 10% deformation, min.	Psi psf (kPa)	5.8 840 (40)	5.8 1470 (70)	16.0 2300 (110)	19.6 2820 (135)	29.0 4180 (200)	40.0 5760 (276)	50.0 7200 (345)
Compressive Resistance @ 5% deformation, min.	psi psf (kPa)	5.1 730 (35)	8.0 1150 (55)	13.1 1890 (90)	16.7 2400 (115)	24.7 3560 (170)	35.0 5040 (241)	43.5 6260 (300)
Compressive Resistance @ 1% deformation, min.	psi psf (kPa)	2.2 320 (15)	3.6 520 (25)	5.8 840 (40)	7.3 1050 (50)	10.9 1570 (75)	15 2160 (103)	18.6 2680 (128)
Elastic Modulus, min.	psi psf	220 (1500)	360 (2500)	580 (4000)	730 (5000)	1090 (7500)	1500 (10300)	1860 (12800)
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)
Water Absorption by total immersion, min.	volume%	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Oxygen Index, min.	volume%	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Buoyancy Force	Lb/ft ³ (kg.m ³)	61.7 (990)	61.5 (990)	61.3 (990)	61.1 (990)	60.6 (970)	60.0 (960)	59.5 (950)



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LIGHT WEIGHT

High Compression Strength

ANY THICKNESS

ADDITIONAL INSULATION

GREEN ROOF

GREEN ROOF CONSTRUCTION

Green roofs are a part of almost every new multi-family residential building and a growing number of commercial building projects in urban areas. Whether the project calls for a few planters on the roof or extensive planting, EPS Geofoam is the fast and lightweight solution. The material can be delivered precut and ready to install. It can easily be raised to the roof where it is quickly placed by hand, reducing the need for heavy equipment. It's light weight and structural properties make EPS Geofoam the perfect material for rooftop projects.



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Simplified Forming Operations

LOW COST

HIGH COMPRESSION
STRENGTH



CONCRETE FORM LINERS

Expanded polystyrene (EPS) is an economical alternative for wood and steel forms when creating curves or intricate patterns. It is commonly used for building columns and other architectural shapes. It can also be used for building and tunnel facades. Parapet caps and other shapes that require greater detail are easily formed with EPS, so, the primary form can be kept rectangular.



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Blocks Delivered Pre-Cut

HIGH STRENGTH

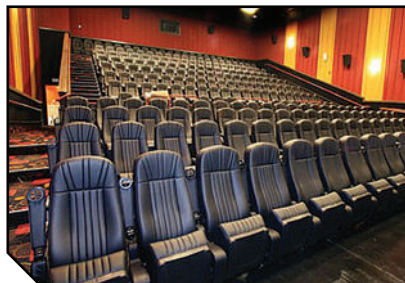
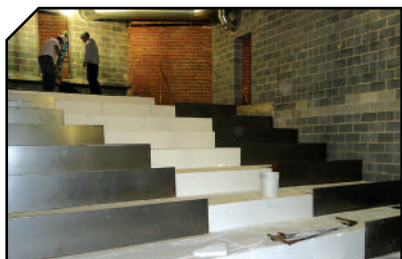
ECONOMICAL

MINIMAL ON-SITE MODIFICATION

THEATER

AUDITORIUM & THEATER SEATING

EPS Geofoam can be used in conjunction with our proprietary steel Leave-In-Place Riser form system to create tiered seating in movie theaters, classrooms, auditoriums and churches. The advantages of using Geofoam and the LIP riser forms are speed and ease of construction. EPS Geofoam also provides sound deadening benefits for the owner, making it a better alternative to steel framing, particularly in theater construction.



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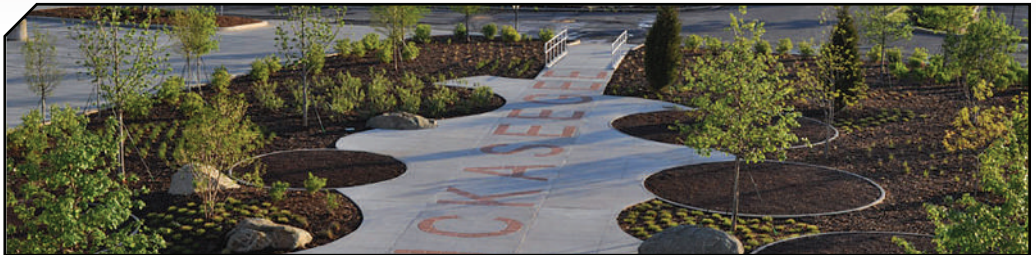
CONCRETE BLOCK OUTS

ECONOMICAL
STRONG
LOWER SITE COSTS
FAST DELIVERY



CONCRETE BLOCK OUTS

Custom cut EPS block-outs are an economical and efficient way to create voids in concrete structures and forms. With compression strengths up to 18psi @1% deformation EPS Geofoam can carry substantial wet concrete loads with little to no deflection. Block outs are delivered to the jobsite precut and ready to install.



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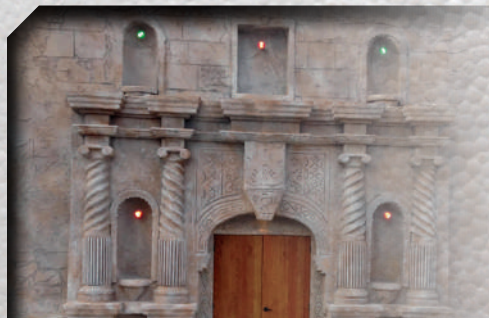
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Custom Shapes And Sizes

PARAPET CAPS

COLUMNS

KEYSTONES & BRACKETS

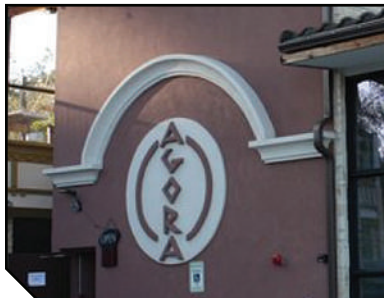
CAPITALS & PEDESTALS

High Density

ARCHITECTURAL
SHAPES

ARCHITECTURAL SHAPES

EPS can be wire cut into an infinite number of architectural shapes. Mostly used for exterior applications, the material can be coated with synthetic stucco coatings (known as EIFS), cementitious coatings or a variety of other coatings depending on the project requirements. There are also very dense EPS crown moldings available for interior uses, which are paint ready.



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SIGNS

ANY SIZE

ANY DESIGN

Many Coating Options

EXTREMELY

LIGHTWEIGHT



SIGNS & SHAPES

A common use of expanded polystyrene is the construction of signage. It's light weight, durability, and overall strength makes it an ideal material for many different sign applications. EPS can be wire cut or shaped with a CNC router then coated with a variety of different coatings.



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SLAB INSULATION PERIMETER ROOFS AND WALLS CONSTANT THERMAL RESISTANCE **STRENGTH** ENERGY EFFICIENT LOW COST High Density

INSULATION

INSULATION

EPS insulation is available in different compression strengths to meet almost any requirements. It is ideal for under slab insulation, perimeter insulation, as well as roofs and walls. To meet the 2012 Energy Code, EPS blocks are inserted in CMU block to add insulation to foundation walls. EPS insulation panels can be cut to any thickness up to 48" wide x 192" long. They are used between studs, joist and rafters, and are delivered precut to fit the application.



Property		Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Normal Density	lb/ft (kg/m ³)	0.75 (12)	1.00 (16)	1.25 (20)	1.50 (24)	2.00 (32)	2.50 (40)	3.00 (48)
	Density min.	lb/ft (kg/m ³)	0.70 (12)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)	2.40 (38)
Flame Spread		ASTM E84	<25	<25	<25	<25	<25	<25
Smoke Developed		ASTM E84	<450	<450	<450	<450	<450	<450
Max. Service Temperature	Long Term	°F	167	167	167	167	167	167
	Intermittent	°F	180	180	180	180	180	180
Thermal Resistance per 1.0 thickness	25°F °F.ft ² .h/Btu	3.5	4.2	4.4	4.6	4.8	4.8	4.9
	40°F °F.ft ² .h/Btu	3.3	4.0	4.2	4.0	4.6	4.6	4.7
	75°F °F.ft ² .h/Btu	3.1	3.6	3.8	4.0	4.2	4.2	4.3
Compressive		psi (kPa)	5.0 (35)	10.0 (69)	13.0 (90)	15.0 (104)	25.0 (173)	40.0 (276)
Flexural Strength, min.		psi (kPa)	10.0 (69)	25.0 (173)	30.0 (208)	35.0 (242)	50.0 (345)	60.0 (414)
Water Vapor Permeance' of 1.0 in. thickness, max., perm			5.0	5.0	3.5	3.5	2.5	2.5
Water Absorption' by total immersion, max., volume %			4.0	4.0	3.0	3.0	2.0	2.0



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ECONOMICAL FAST TURN-AROUND

Custom Shapes And Sizes

COMPETITIVE PRICES

LIGHTWEIGHT

EXTREMELY BUOYANT

32 Different Sizes In Stock



FLOTATION

Due to its physical characteristics, EPS (expanded polystyrene) is excellent for flotation. It is used in conjunction with wood decking for floating docks and swim platforms. EPS floats encapsulated in a plastic shell are widely used for commercial docks. EPS is also encapsulated in concrete for much larger projects such as breakwaters. There are floating docks using EPS blocks on private lakes that have been in service for over 30 years.



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UNDER SLAB APPLICATIONS
**HIGH COMPRESSION
STRENGTHS**

STYROFOAM™ BRAND FOAM

STYROFOAM™ Brand Square Edge Insulation Extruded Polystyrene is a Type IV product with square edges on four sides to help ensure energy efficiency and minimize on-site cutting and waste. It offers superior water resistance, long-term thermal performance and high compressive strength in a wide range of residential and commercial construction applications.

STYROFOAM™ Brand HIGHLOAD 40 Insulation has a minimum compressive strength of 40 psi (275 kPa). The Type VI extruded polystyrene foam insulation resists compressive creep and fatigue, delivering long-term compressive strength and thermal performance in high-load applications.

STYROFOAM™ Brand HIGHLOAD 60 Insulation has a minimum compressive strength of 60 psi (415 kPa). The Type VII extruded polystyrene foam insulation resists compressive creep and fatigue, delivering long-term compressive strength and thermal performance in high-load applications.

STYROFOAM™ Brand HIGHLOAD 100 Insulation has a minimum compressive strength of 100 psi (690 kPa). The Type V extruded polystyrene foam insulation resists compressive creep and fatigue, delivering long-term compressive strength and thermal performance in high-load applications.

STYROFOAM™ Brand DECKMATE™ Plus Insulation is a Type IV extruded polystyrene foam product designed for use on conventional roofs beneath mechanically fastened, fully adhered or ballasted sheet membranes. It can be used on built-up, modified bituminous and metal roofs, and installed directly on a steel deck without the use of a thermal barrier such as gypsum board.

STYROFOAM™ Brand PLAZAMATE™ Insulation with 1/2" x 1/4" drainage channels on the bottom long edge, is a Type VII extruded polystyrene foam insulation designed for installation above waterproofing or roofing membranes in plaza roof decks. The Type VII insulation helps extend the life of plaza or roof by providing protection from ultraviolet deterioration. It helps the roof membrane maintain a steady temperature, minimizing the harmful effects of freeze-thaw cycles, weathering and physical damage during and after construction.

* ABOVE INFORMATION PROVIDED FROM THE DOW CHEMICAL WEBSITE



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EPS GEOFOAM DATA SHEET

EPS 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". EPS Geofoam is available in a range of densities to provide control of structural integrity and cost effectiveness.

The information given is deemed to be timely, accurate, and reliable for the use of EPS Geofoam. Each project using EPS Geofoam should be designed by a professional engineer. The engineer of project specifications should be consulted to determine the ASTM D6817 Type required for your project loading conditions.

EPS Geofoam Properties

Property		ASTM D6817						
		EPS12 Type XI	EPS15 Type I	EPS19 Type VIII	EPS22 Type II	EPS29 Type IX	EPS39 Type XIV	EPS46
Minimum Density ¹	lb/ft ³ (kg/m ³)	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 ¹ @10% deformation, min.	psi	5.8	10.2	16.0	19.6	29.0	40.0	50.0
	psf	840	1470	2300	2820	4180	5760	7200
	(kPa)	(40)	(70)	(110)	(135)	(200)	(276)	(345)
Compressive Resistance ¹ @5% deformation, min.	psi	5.1	8.0	13.1	16.7	24.7	35.0	43.5
	psf	730	1150	1890	2400	3560	5040	6260
	(kPa)	(35)	(55)	(90)	(115)	(170)	(241)	(300)
Compressive Resistance ¹ @1% deformation, min.	psi	2.2	3.6	5.8	7.3	10.9	15	18.6
	psf	320	520	840	1050	1570	2160	2680
	(kPa)	(15)	(25)	(40)	(50)	(75)	(103)	(128)
Elastic Modulus ¹ , min.	psi	220	360	580	730	1090	1500	1860
	(kPa)	(1500)	(2500)	(4000)	(5000)	(7500)	(10300)	(12800)
Flexural Strength ¹ , min.	psi	10.0	25.0	30.0	40.0	50.0	60.0	75.0
	(kPa)	(69)	(172)	(207)	(276)	(345)	(414)	(517)
Water Absorption ¹ by total immersion, max.	volume %	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Oxygen Index ¹ , min.	volume %	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Buoyancy Force	lb/ft ³	61.7	61.5	61.3	61.1	60.6	60.0	59.5
	(kg/m ³)	(990)	(980)	(980)	(980)	(970)	(960)	(950)

¹ See ASTM D6817 Standard for test methods and complete information.



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