

Trusted Lightweight Fill.

R-Shield® 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.

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

Quality Assurance.

R-Shield Geofoam is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40361-01 and ICC ESR-4743. R-Shield meets ASTM D6817, "Standard Specification for Rigid, Cellular Polystyrene Geofoam."



Size and Shape.

R-Shield 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 R-Shield Geofoam. Combined live and dead load stresses should not exceed the compressive resistance at 1% strain.

Additional Information.

Please consult the R-Shield 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. R-Shield can be manufactured with a proven and safe additive, that effectively resists termites.

R-Shield is treated to meet ICC ES AC239, "Acceptance Criteria for Termite-Resistant Foam Plastics".

R-SHIELD 12 GEOFOAM			
Density, min.		lb/ft³	0.70
ASTM C303		(kg/m³)	(11.2)
Compressive Resistance		psi	2.2
@ 1% deformation, mir	۱.	psf	320
ASTM D1621		(kPa)	(15)
Elastic Modulus, min.		psi	220
ASTM D1621		(kPa)	(1550)
Flexural Strength, min.		psi	10.0
ASTM C203, Procedur	e B	(kPa)	(69)
		lb/ft³	61.7
Buoyancy Force	Buoyancy Force		(990)
Water Absorption by total immersion, max., volume % ASTM C272			4.0
	25°F	°F·ft²·h/Btu	3.6
R-value	25°F	(°K·m²/W)	(0.63)
Thermal Resistance	4005	°F·ft²·h/Btu	3.4
per 1.0 in. thickness	40°F	(°K·m²/W)	(0.60)
ASTM C518	7505	°F·ft²·h/Btu	3.2
	75°F	(°K·m²/W)	(0.57)
Flame Spread Index ¹			<25
Smoke Developed Index ¹			<450
ASTM E84/UL723			
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS12

¹Please refer to UL certificate for complete information.





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R-SHIELD[°] 15

TECH DATA

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R-SHIELD [®] 15 GEOFOAM			
Density, min.		lb/ft³	0.90
ASTM C303		(kg/m³)	(14.4)
Compressive Resistan	ce	psi	3.6
@ 1% deformation, mir	۱.	psf	520
ASTM D1621		(kPa)	(25)
Elastic Modulus, min.		psi	360
ASTM D1621		(kPa)	(2500)
Flexural Strength, min		psi	25.0
ASTM C203, Procedur	e B	(kPa)	(172)
		lb/ft³	61.5
Buoyancy Force		(kg/m³)	(980)
Water Absorption by total immersion, max., volume % ASTM C272			4.0
	25°F	°F·ft²·h/Btu	4.4
R-value	23 F	(°K·m²/W)	(0.77)
Thermal Resistance	40°F	°F·ft²·h/Btu	4.2
per 1.0 in. thickness	40°F	,	(0.73)
ASTM C518	75°F	°F·ft²·h/Btu	3.9
		(°K·m²/W)	(0.68)
Flame Spread Index ¹			<25
Smoke Developed Index ¹			<450
ASTM E84/UL723			
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS15

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R-SHIELD[°] 19

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R-SHIELD [®] 19 GEOFOAM			
Density, min.		lb/ft³	1.15
ASTM C303		(kg/m³)	(18.4)
Compressive Resistant	ce	psi	5.8
@ 1% deformation, mir	٦.	psf	840
ASTM D1621		(kPa)	(40)
Elastic Modulus, min.		psi	580
ASTM D1621		(kPa)	(4000)
Flexural Strength, min		psi	30.0
ASTM C203, Procedur	e B	(kPa)	(207)
		lb/ft ³	61.3
Buoyancy Force		(kg/m³)	(980)
Water Absorption by total immersion, max., volume % ASTM C272			3.0
R-value	25°F	°F·ft²·h/Btu (°K·m²/W)	4.6 (0.80)
Thermal Resistance		°F·ft²·h/Btu	4.3
per 1.0 in. thickness	40°F	$\frac{(^{\circ}K \cdot m^{2}/W)}{(^{\circ}K \cdot m^{2}/W)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}K \cdot m^{2}/W)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}S \cdot gt^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/Btu)} = \frac{(^{\circ}F \cdot ft^{2} \cdot h/Btu)}{(^{\circ}F \cdot ft^{2} \cdot h/B$	(0.75)
ASTM C518	7505	°F·ft²·h/Btu	3.9
	75°F	(°K·m²/W)	(0.69)
Flame Spread Index ¹			<25
Smoke Developed Index ¹			<450
ASTM E84/UL723			
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS19

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R-SHIELD [®] 22			
Density, min.		lb/ft ³	1.35
ASTM C303		(kg/m³)	(21.6)
Compressive Resistance		psi	7.3
@ 1% deformation, mir	۱.	psf	1050
ASTM D1621		(kPa)	(50)
Elastic Modulus, min.		psi	730
ASTM D1621		(kPa)	(5000)
Flexural Strength, min.		psi	35.0
ASTM C203, Procedur	e B	(kPa)	(240)
-		lb/ft³	61.1
Buoyancy Force		(kg/m³)	(980)
Water Absorption by total immersion, max., volume % ASTM C272			3.0
	25°F	°F·ft²·h/Btu	4.8
R-value	23 F	(°K·m²/W)	(0.84)
Thermal Resistance	4005	°F·ft²·h/Btu	4.6
per 1.0 in. thickness	40°F	(°K·m²/W)	35.0 (240) 61.1 (980) 3.0 4.8 (0.84)
ASTM C518	75°F	°F·ft²·h/Btu	4.2
		(°K·m²/W)	(0.73)
Flame Spread Index ¹			<25
Smoke Developed Index ¹			<450
ASTM E84/UL723			
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS22

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R-SHIELD [®] 29 GEOFOAM			
Density, min.		lb/ft ³	1.80
ASTM C303		(kg/m³)	(28.8)
Compressive Resistant	ce	psi	10.9
@ 1% deformation, mir	۱.	psf	1570
ASTM D1621		(kPa)	(75)
Elastic Modulus, min.		psi	1090
ASTM D1621		(kPa)	(7500)
Flexural Strength, min		psi	50.0
ASTM C203, Procedur	e B	(kPa)	(345)
		lb/ft³	60.6
Buoyancy Force	Buoyancy Force		(970)
Water Absorption by total immersion, max., volume % ASTM C272			2.0
	25°F	°F·ft²·h/Btu	5.0
R-value		(°K·m²/W)	(0.88)
Thermal Resistance	4005	°F·ft²·h/Btu	4.8
per 1.0 in. thickness	40°F	(0.84)	
ASTM C518	75°F	°F·ft²·h/Btu	4.4
		(°K·m²/W)	(0.77)
Flame Spread Index ¹			<25
Smoke Developed Index ¹			<450
ASTM E84/UL723			
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS29

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R-SHIELD [°] 39 GEOFOAM			
Density, min.		lb/ft ³	2.40
ASTM C303		(kg/m³)	(38.4)
Compressive Resistance	ce	psi	15.0
@ 1% deformation, mir	۱.	psf	2160
ASTM D1621		(kPa)	(103)
Elastic Modulus, min.		psi	1500
ASTM D1621		(kPa)	(10300)
Flexural Strength, min.		psi	60.0
ASTM C203, Procedur	e B	(kPa)	(414)
-		lb/ft ³	60.0
Buoyancy Force		(kg/m³)	(960)
Water Absorption by total immersion, max., volume % ASTM C272			2.0
	25°F	°F·ft²·h/Btu	5.0
R-value	23 F		(0.88)
Thermal Resistance	4005	°F·ft²·h/Btu	4.8
per 1.0 in. thickness	40°F	40°F (°K·m²/W) (0.	(0.84)
ASTM C518	75°F	°F·ft²·h/Btu	4.4
		(°K·m²/W)	(0.77)
Flame Spread Index ¹			<25
Smoke Developed Index ¹ ASTM E84/UL723			<450
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS39

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R-SHIELD 46			
Density, min.		lb/ft³	2.85
ASTM C303		(kg/m³)	(45.7)
Compressive Resistant		psi	18.6
@ 1% deformation, mir	۱.	psf	2680
ASTM D1621		(kPa)	(128)
Elastic Modulus, min.		psi	1860
ASTM D1621		(kPa)	(12800)
Flexural Strength, min.		psi	75.0
ASTM C203, Procedur	e B	(kPa)	(517)
		lb/ft³	59.5
Buoyancy Force		(kg/m³)	(950)
Water Absorption by total immersion, max., volume % ASTM C272			2.0
	25°F	°F·ft²·h/Btu	5.1
R-value	23 F		(0.90)
Thermal Resistance	4005	°F·ft²·h/Btu	4.9
per 1.0 in. thickness	40°F	^{0°F} (°K·m²/W) (0.89	(0.85)
ASTM C518	75°F	°F·ft²·h/Btu	4.5
		(°K·m²/W)	(0.78)
Flame Spread Index ¹			<25
Smoke Developed Index ¹ ASTM E84/UL723			<450
Oxygen Index, min., volume % ASTM D2863			24
ASTM D6817 Compliance, Type			EPS46

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