

# HALO® SUBTERRA®

Made with GPS High-Performance Graphite Polystyrene (GPS)

## TECHNICAL DATA SHEET



### SPECIFICATIONS AND PERFORMANCE

Product Details	Test Method	Performance		
Compressive Strength, PSI (kPa) [results based on 1" thickness]	ASTM D1621	10	15	25
Thickness	-	varies		
R-Value, 75° F (Btu • in. / ft. <sup>2</sup> hr • F°)	ASTM C518	4.7		
Dimensions, width x length (Ft.)	-	4x8		
Sq. Ft. of Insulation Per Package [based on 4x8 sizing]	-	varies based on thickness		
Component Properties	Test Method	Performance		
Film Type	-	flexible plastic, metalized		
Film Thickness [nominal mil]	-	1.5, 1.0		
Physical Properties of the GPS	Test Method	Performance		
Classification of Insulation Component	ASTM C578	Type I	Type II	Type IX
Density lb./ft. <sup>3</sup> (kg/m <sup>3</sup> ) [minimum]	ASTM D1622	0.90	1.35	1.80
Water Vapor Permeance of 1.00 in thickness, Min, perm (ng/Pa•s•m <sup>2</sup> )	ASTM E96	5.0	3.5	2.5
Composite Properties	Test Method	Performance		
Flexural Strength, PSI (kPa) [results based on 1" thickness]	ASTM C203	25	35	50
Surface Burning Characteristics: Flame Spread Smoke Developed	ASTM E84	<25 <450		

#### Read This Before You Buy - What You Should Know About R-values

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.

#### Additional Information

Progressive Foam's manufacturing process includes a combination of heat and pressure, utilizing clean technologies that minimize energy and water inputs through closed loop energy recycling. No solid waste is generated in production, and no generated waste goes to the landfill. All waste is fully recaptured and repurposed.

GPS is treated with a flame retardant; however, all foam plastic insulation will ignite if exposed to fire of sufficient heat and intensity. Protect foam insulation from exposure to open flame or other ignition sources during shipment, storage, and installation.

Prolonged exposure to ultraviolet radiation may cause the surface of the insulation to degrade. A light-colored, opaque protective covering should be used if excessive solar exposure is expected.

Subterra is a Building Code Compliant UL Certified Rigid Foam Insulation that helps builders and contractors meet IECC 2009, 2012 and 2015 Residential and Commercial Energy Code for Exterior Continuous Insulation Sheathing.

#### Disclaimer

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