

CHROME™ GPS

PROFESSIONAL GRADE GRAPHITE INSULATION

TECHNICAL DATA SHEET

GPS Test Results per ASTM C578

Property	Units	Type VIII	Type IX	Standard
Density (U.S.) Minimal Requirements	lbs/ft	1.15	1.0	ASTM D1622
Thermal Resistance 1" thick	F x ft ² x h/Btu 75° ± 2°F F x ft ² x h/Btu @ 40° ± 2°F	5.0, 5.2	3.85	Exceeds ASTM C518 Minimum Requirements
Compressive Resistance at yield of 10% deformation	psi	14	11.38	ASTM D1621
Water Vapor Permeance	perms	3.5	2.5	ASTM E96
Water Absorption by Total Immersion	Volume %	1.1	1.1	ASTM C272
Flexural Strength	psi	30	50	ASTM C203
Dimensional Stability (Change in Dimensions)	% Change	2.0	2.0	ASTM D2126
Surface Burning Characteristics	Flame Spread Smoke Development	<5 <25	<5 <25	ASTM E84
Chemical Resistance	Insensitive to water, the majority of acids and alkalis; sensitive to organic solvents.			
Biological Behavior	No harmful effects on health known.			

* ASTM E-84 not required of ASTM C578

Insulation requirements as defined by the 2021 IECC

U.S. Department of Energy Section R402

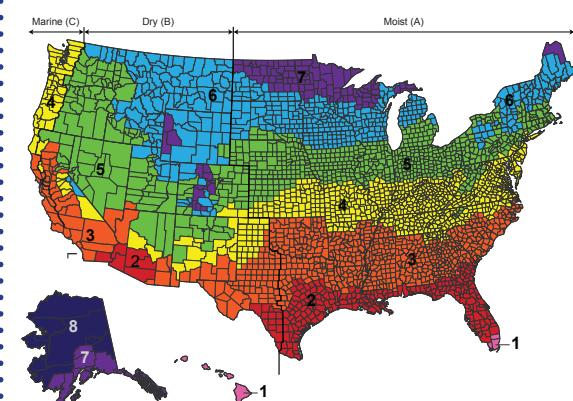


Table R402.1.2

Climate Zone	Wood Frame Wall R-Value
1	13
2	13
3	20 or 13+5 ^a
4 except Marine	20 or 13+5 ^a
5 and Marine 4	20 or 13+5 ^a
6	20+5 or 13+10 ^a
7 and 8	20+5 or 13+10 ^a

a. First value is cavity insulation, second is continuous insulation, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation.

Product	Standard Thickness	Standard Dimensions	R-Value ²	Compressive Strength
Chrome GPS 15 ²	1-1/16"	4' x 8'	R5	14 psi
	2-1/8	4' x 8'	R10	14 psi
Chrome GPS 25 ²	1-1/16"	4' x 8'	R5	25 psi
	2-1/8	4' x 8'	R10	25 psi

¹ Board thickness (+/- 1/16")

² R-Value is R5 per nominal Inch (1-1/16")

Custom sizes are available.

Upon request: Unfaced GPS foam products are available with termite preventative additive.

DISCLAIMER: The information presented herein has been compiled from sources considered to be accurate and reliable but is not guaranteed to be so. In practice, the differences in materials, substrates, storage conditions, actual site conditions and other factors outside of Perma "R" Products' control are such that Perma "R" Products assumes no liability, nor makes any warranty, express or implied for such information, recommendations or instructions related to its products. It is the user's responsibility to determine the suitability of any material for specific purposes and to adopt such safety precautions as may be necessary.



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