

# CHROME GPS®

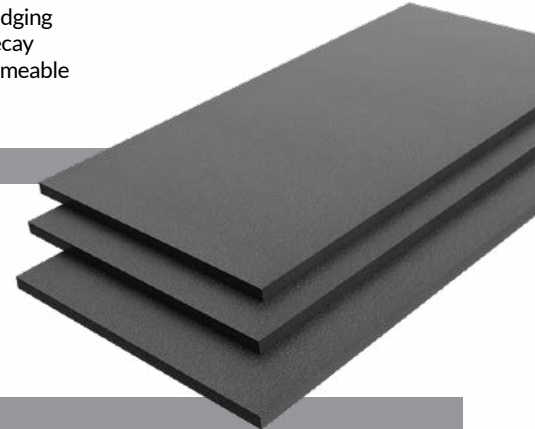
## Graphite Polystyrene (GPS) Rigid Foam Insulation

INTRODUCING CHROME GPS™ – a premium, professional grade rigid insulation that delivers higher long-term R-value and more value for the money than regular XPS insulation!

High-performance Chrome GPS is powered by graphite enhanced polystyrene (GPS). Distinguished by its distinctive silver/grey colour, GPS is comprised of many small pockets of air within a polymer matrix containing graphite. The graphite reflects radiant heat energy like a mirror and increases the resistance GPS has to the flow of heat (or R-value) by up to 20% when compared to conventional EPS.

**CHROME GPS™ IS PROFESSIONAL GRADE:**

- Delivers R-5 per nominal inch
- Eliminates all thermal bridging
- Resistant to aging and decay
- Breathable and semi-permeable
- Manufactured locally



**Product Features**



Stable long term thermal resistance (LTTTR) R5 nominal



Environmentally responsible



Resistant to age & decay



Vapor permeable

**Environmental & Sustainability**

**AVAILABLE PANEL SIZES & THICKNESSES**

Standard Sizes: 2' x 8' (610 mm x 2440 mm), 4' x 8' (1220 mm x 2440 mm)  
Standard Thicknesses: 1" (25 mm), 1.5" (38 mm), 2" (50 mm), 3" (75 mm), 4" (100 mm) Custom dimensions, thicknesses and profiles available upon request.

Chrome GPS™ is self-extinguishing, however, it must be protected from open flame and excessive heat. Solar energy compounded by external reflective surfaces can create excessive heat build-up within insulation products made from GPS Neopor® foam, as well as produce minor surface deformation. Protect from concentrated reflected sunlight or prolonged solar exposure.

**INSTALLATION RECOMMENDATIONS**

Please contact your local Chrome GPS manufacturer for recommended installation procedures and guidelines for Chrome GPS.  
Caution: Protect from Fire & Heat



**Performance Criteria**

Performance Criteria			Chrome GPS® 1000 <sup>c</sup>	Chrome GPS® 1600 <sup>c</sup>	Chrome GPS® 2000 <sup>c</sup>	Chrome GPS® 2500 <sup>c</sup>	Chrome GPS® 3000 <sup>c</sup>
			Compliance				
			ASTM C578b (CAN/ULC S701 <sup>b</sup> )				
THERMAL RESISTANCE <sup>a</sup>	75°F (24°C)	ASTM C518 CAN/ULC S701	R-5 (RSI 0.88) <sup>b</sup>				
	40°F (4.4°C)		R-5.2 (RSI 0.92) <sup>b</sup>				
PHYSICAL	Compressive Resistance at 10% def., Min.	ASTM D1621	10 psi (70 kPa)	16 psi (110 kPa)	20.4 psi (140 kPa)	25 psi (175 kPa)	30 psi (200 kPa)
	Flexural Resistance Min.	ASTM C203	25 psi (170 kPa)	30 psi (240 kPa)	50 psi (300 kPa)	50 psi (300 kPa)	50 psi (300 kPa)
	Dimensional Stability Max.	ASTM D2126	2% (1.5%)				
MOISTURE	Water Vapor Permeance Max.	ASTM E96	5 perms (300 ng/Pa•s•m <sup>2</sup> )	3.5 perms (200 ng/Pa•s•m <sup>2</sup> )	2.5 perms (130 ng/Pa•s•m <sup>2</sup> )	2.5 perms (130 ng/Pa•s•m <sup>2</sup> )	2.5 perms (130 ng/Pa•s•m <sup>2</sup> )
	Water Absorption Max.	ASTM C272	4%	3%	3%	2%	2%
FIRE	Flame Spread Index, Max.	ASTM E84 CAN/ULC S102.2	5 (230)				
	Smoke Developed Index, Max.		25 (>500)				
	Max Thickness	6" (102mm)					
	Density, Max.	2 pcf (32 kg/m <sup>3</sup> )					
	Oxygen Index, Min.	ASTM D2863	24%				

- At 1" nominal thickness (actual thickness = 1.06" (26.92mm))
- Unless noted otherwise, properties are based on 1" (25.4mm) thickness without laminate. Data provided by BASF
- Contact your local manufacturer to confirm availability.

**Technical Information**

- Chrome GPS® products should be protected from reflective or direct UV exposure. Always keep stored Chrome GPS® products tarped or covered to protect from weather, and when possible store indoors. Do not use a clear plastic covering film.
- Chrome GPS® is self-extinguishing, however, it must be protected from open flame and excessive heat. Solar energy compounded by external reflective surfaces can create excessive heat build-up within insulation products made from GPS Neopor® foam, as well as produce minor surface deformation. Protect from concentrated reflected sunlight or prolonged solar exposure.
- Prior to use of adhesives, sealants or other similar products with GPS insulation please verify the compatibility with adhesive manufacturers.
- Please contact your local Chrome GPS® manufacturer for recommended installation procedures and guidelines for Chrome GPS®.

**Sizes**

	BOARD THICKNESS	BOARD SIZE
<b>Chrome GPS®</b>	1" (25 mm), 1.5" (38 mm), 2" (50 mm), 3" (75 mm), 4" (100 mm)	2' x 8' (610 mm x 2440 mm), 4' x 8' (1220 mm x 2440 mm)

Note: Custom dimensions, thicknesses and profiles available upon request.

**Installation Recommendations**

Please contact your local Chrome GPS manufacturer for recommended installation procedures and guidelines for Chrome GPS.

**Caution: Protect from Fire & Heat**

Chrome GPS™ is self-extinguishing, however, it must be protected from open flame and excessive heat. Solar energy compounded by external reflective surfaces can create excessive heat build-up within insulation products made from GPS Neopor® foam, as well as produce minor surface deformation. Protect from concentrated reflected sunlight or prolonged solar exposure.

**Packaging**

Chrome GPS® packaging and bundle sizes vary. Please contact your local Chrome GPS® manufacturer or dealer to confirm your local packaging specifications and available bundle sizes.

**Manufacturers**

- Beaver Plastics Ltd.  
7-26318-TWP RD 531A  
Acheson, Alberta, T7X 5A3  
888-453-5961
- AMC Foam Technologies Inc.  
35 Headingley St.  
Headingley Manitoba, R4H 0A8  
877-789-7622
- Form Solutions  
P.O. Box 358  
Port Hope, ON, L1A 3W3  
888-706-7709
- Progressive Foam Technologies  
1 Southern Gateway Dr.  
Gnadenhutten, OH, 44629  
800-860-3626
- Form Systems Inc.  
330 Cain Drive  
Haysville, KS, USA 67060-2004  
1-888-838-5038
- Perma R Products Inc.  
2604 Sunset Dr.  
Grenada, MS, 38901  
800-647-6130
- Perma R Products Inc.  
106 Perma R Rd.  
Johnson City, TN, 37604  
800-647-6130

**Applicable Standards**

ASTM C578	Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
ASTM C518	Standard Test Method for Steady-state Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
ASTM D1621	Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
ASTM D2842	Standard Test Method for Water Absorption of Rigid Cellular Plastics.
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials.
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials.
ASTM C203	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation.
ASTM C303	Standard Test Method for Dimensions and Density of Preformed Block and Board-Type Thermal Insulation.
ASTM D2863	Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index).
CAN/ULC-S701	Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.
CAN/ULC S102.2	Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies.
NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

**Limited Warranty**

Subject to the terms and conditions contained in the Limited Warranty, the Manufacturer (as defined herein) warrants that if the representative thermal insulation value of the Neopor® bead in the Halo® insulation product Halo® Interra®, Halo® Exterra®, or Halo® Subterra® (the "Product" or "Products") varies from the published thermal resistance, the Manufacturer will, when a claim under the attached Limited Warranty is made within fifteen (15) years from the date of manufacture, refund the original purchase price to the first owner of a structure in which the Product has been installed (the "Owner"). For the purposes of the Limited Warranty, the original purchase price of the Product shall be exclusive of taxes and all other costs, including builder mark ups, labor costs and costs to remove the original Product and replace it with new Product.

For more information refer to the [Halo Zero Thermal Drift Guarantee](#).

**Disclaimer of Liability**

References to "Logix Brands" or the "Company" mean the manufacturer selling the Products to Owner (the "Manufacturer") unless otherwise expressly noted. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR THE ATTACHED LIMITED WARRANTY. ALL OTHER WARRANTIES, EXPRESS, STATUTORY AND IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The Owner assumes all risks as to the use of the material. As the Manufacturer has no control over installation design and workmanship, accessory materials or application conditions, the Manufacturer does not warranty the performance or results of any installation containing the Products. The Products must be handled and installed according to the instructions outlined in the applicable Product installation guide and used only for the particular purposes recommended in the Halo Product literature available on [BuildWithHalo.com](#).

**Technical Support**

For North American technical inquiries please contact Francis Roma ([froma@logixbrands.com](mailto:froma@logixbrands.com)) or Tyler Simpson ([tsimpson@logixbrands.com](mailto:tsimpson@logixbrands.com)).

**Code Evaluation Approvals**

- CCMC 14004-L
- QAI Listing B1031-2
- UL ER5817-02
- QAI Listing 1055-1
- ICCESR 2784

