

# Styrobar®

## PLATINUM

ADVANCED GPS TECHNOLOGY

POWERED BY  
R-5 GPS  
TECHNOLOGY!

Made of  
**Neopor®**  
by BASF

**Introducing Styrobar® Platinum – a premium, construction-grade rigid insulation that delivers higher long-term R-value and more value for the money than regular XPS insulation!**

High performance Styrobar® Platinum 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 GPS's resistance to the flow of heat (or R-value) by up to 20% when compared to conventional EPS.

### STYROBAR® PLATINUM = PLATINUM PERFORMANCE

- **Delivers R-5 per nominal inch\*** in both low and medium density applications. Its higher R-value means a thinner profile, which also means lower freight and installation costs.
- **Eliminates all thermal bridging** and also powers up when it gets colder, delivering even more R-value.
- **Resistant to aging and decay**, delivers the highest true R-value performance with no loss of R-value over time. It also offers high resistance to normal soil moisture.
- **Breathable and semi-permeable**, this high performance insulation reduces the risk of mould, rot and structural damage often associated with condensation and long-term water retention. It's also GREENGUARD certified for superior indoor air quality.
- **Manufactured locally** and uses up to 30% less foam than other insulations, which means a smaller carbon footprint and a contribution to LEED certification.



[www.AMCFoam.com](http://www.AMCFoam.com)

# STYROBAR® PLATINUM TECHNICAL PROPERTIES

Table 1: Physical Properties per CAN/ULC S701<sup>2</sup>

Type	Styrobar Platinum 100	Styrobar Platinum 160	Styrobar Platinum 200	Styrobar Platinum 250	Styrobar Platinum 300
<sup>1</sup> Thermal Resistance Min., m <sup>2</sup> CW (ASTM C518)	0.88	0.88	0.88	0.88	0.88
Water Vapour Permeance Max. at 25 mm Thickness, ng/Pa s m <sup>2</sup> (ASTM E96)	300	200	130	130	130
Compressive Strength Min. at 10% deformation, kPa (ASTM D1621)	70	110	140	170	210
Flexural Resistance Min, kPa (ASTM C203)	170	240	300	300	300
Water Absorption Max by Volume, % (ASTM C272)	6	4	2	2	2
Dimensional Stability Max, % (ASTM D2126)	1.5	1.5	1.5	1.5	1.5
Limiting Oxygen Index Min, % (ASTM D2863)	24	24	24	24	24

1. Based on tested values at 27 mm (1.06").
2. Based on independent testing by QAL.

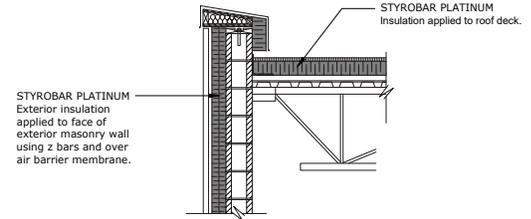
Table 2: Physical Properties per ASTM C578<sup>2</sup>

Type	Styrobar Platinum 100	Styrobar Platinum 160	Styrobar Platinum 200	Styrobar Platinum 250	Styrobar Platinum 300
<sup>1</sup> Thermal Resistance Min., F-ft <sup>2</sup> /h/Btu (ASTM D2863)	VIII	II	IX	IX	IX
Water Vapour Permeance Max. at 1in Thickness, perms (ASTM E96)	3.5	3.5	2.5	2.5	2.5
Compressive Strength Min. at 10% deformation, psi (ASTM D1621)	10	16	20	25	30
Flexural Resistance Min, psi (ASTM C203)	30	35	50	50	50
Water Absorption Max by Volume, % (ASTM C272)	3	3	2	2	2
Dimensional Stability Max, % (ASTM D2126)	2	2	2	2	2
Limiting Oxygen Index Min, % (ASTM D2863)	24	24	24	24	24
Density Min., lbs/ft <sup>3</sup>	1.15	1.35	1.80	2.40	2.40

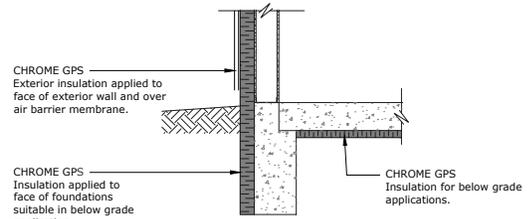
1. Based on tested values at 1.06".
2. Based on independent testing by UL.

Table 3: Surface Burning Characteristics

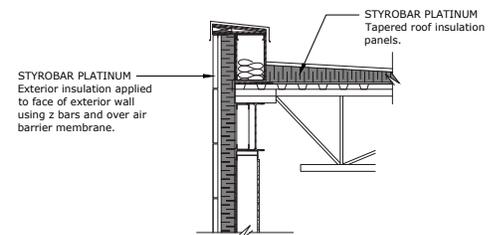
	Flame Spread Index Max.	Smoke Developed Index Max.	Thickness Max.	Density
ASTM E84	5	25	5 in.	2.0 pcf
CAN/ULC S102.2	230	> 500	102 mm	32 kg/m <sup>3</sup>



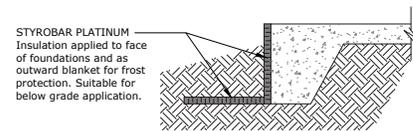
Wall & Roof Insulation  
Masonry Insulation



Foundation Insulation  
Below Grade Insulation



Wall & Roof Insulation  
Steel Stud / Wood Frame Insulation



Slab Thickening Detail  
Frost Protection Insulation

## 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.

## INSTALLATION RECOMMENDATIONS

Please refer to the appropriate Styrobar Platinum installation guidelines for recommended installation procedures, available at [www.AMCfoam.com](http://www.AMCfoam.com) or by asking your local representative.

**CAUTION:**  
**PROTECT FROM FIRE & HEAT**

Styrobar® Platinum 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.



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