

# Neopor® Plus GPS Insulation for Precast Concrete Products

## Overview:

For over 20 years Neopor Graphite Polystyrene has been providing architects, engineers and designers with thinner insulation profiles that meet and exceed the performance of other foam insulation products. The Neopor Plus GPS delivers the highest R-value in the Neopor GPS product family. Neopor Plus GPS is manufactured under UL and International Code Council third party independent audit and certification. With its high stable R-value and low water absorption characteristics, Neopor Plus GPS is an ideal insulation material for precast concrete panels.

## Why consider Neopor® over XPS for Precast Concrete Products?

- **Availability:** Neopor Plus GPS is available nationwide through the authorized BASF Neopor supplier network.
- **Savings:** Per nominal inch, Neopor can deliver the same R-value as XPS using up to 30% less raw material.
- **Precast Ready:** Neopor board surface is ready for precast bond. No additional preparation required.
- **Stable R-value:** Neopor doesn't rely on captive gases to boost its R-value. In Canada, that means no LTTR concerns.
- **Flexibility:** Neopor insulation boards can be made into custom sizes and dimensions up to 40 inches in thickness at varying slopes.
- **Performance:** Neopor Plus GPS delivers high R-value and low water absorption delivering best in class insulating performance.



# NEOPOR® PLUS GPS TECHNICAL PROPERTIES

Neopor Plus GPS rigid foam is today's energy-efficient and cost-effective insulation solution for architects, builders and contractors.

Property	Unit	Neopor Plus GPS				
		Type I	Type VIII	Type II	Type II+	Type IX
<b>ASTM C578 Classification</b>		Type I	Type VIII	Type II	Type II+	Type IX
<b>Compressive Resistance</b>	at yield of 10% deformation in psi (min)	10.0	14.0	15.0	20.0	25.0
<b>Thermal Resistance (R-value)</b>	°F · ft <sup>2</sup> · h/BTU (°C · m <sup>2</sup> /W) at 75°F	5.0	5.0	5.0	5.0	5.0
	°F · ft <sup>2</sup> · h/BTU (°C · m <sup>2</sup> /W) at 40°F	5.2	5.2	5.2	5.3	5.3
<b>Water Vapor Permeance</b>	Max perm (ng/Pa · s · m <sup>2</sup> )	4.0	3.1	3.1	3.1	2.5
<b>Water Absorption by Total Immersion</b>	Max volume % absorbed	1.1	1.1	1.1	1.1	1.1
<b>Flexural Strength</b>	psi	25.0	32.0	39.0	40.0	50.0
<b>Density</b>	lbs/ ft <sup>3</sup> (min)	0.90	1.15	1.35	1.45	1.80
<b>Flame Spread</b>	Index	5				
<b>Smoke Development</b>	Index	25				

**Please note:**

R means resistance to heat flow. The higher the R-value, the greater the insulating power. Ask your representative for the fact sheet on R-values. The technical and physical metrics provided in this table are reference values for insulation products made of Neopor Plus GPS. The values and properties may vary depending on how they are processed and produced. The R-value properties are based on 1-1/16 in thickness. Water absorption rates typical when tested according to C272.

**Important Note:**

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