Neopor in Commercial Construction

SUSTAINABILITY YOU CAN BUILD ON.
GET TO KNOW NEOPOR® GPS

BASF Neopor GPS is a graphite polystyrene (GPS) rigid foam insulation that delivers maximum efficiency, cost-effectiveness and sustainability for your commercial construction projects.

ECOLOGICAL
Neopor is a low-carbon GreenGuard Gold certified and high-performing insulation with a product-specific EPD and transparency documentation.

ECONOMICAL
Per nominal inch, it can deliver the same R-value as XPS using up to 30% less raw material.

FLEXIBLE
Neopor insulation can be used for Cavity Wall, Perimeter, Roof, EIFS, Stucco and more.

STABLE
By not relying on captive gasses to boost R-value, Neopor provides stable long term thermal resistance.

RESISTANT
Neopor has low water absorption while maintaining vapor-open.

AVAILABLE
Neopor GPS is manufactured nationwide through our authorized network ensuring local supply. (see map)

APPLICATIONS & FEATURES

• ROOFING
  • LT. Assemblies and system compliance
  • Low-carbon option for Green Roofing
  • Low water absorption / high-drying

• CAVITY WALL
  • NEFA 29R approved assemblies
  • LT. Rated Assembly options

• EIFS
  • Approved with system suppliers

• PRECAST
  • Board surface is ready for precast bond
  • No additional preparation is required

• PERIMETER
  • Low water absorption
  • High drying capacity
  • Low-carbon option to replace XPS

• UNDERSLAB
  • Low water absorption
  • High drying capacity
  • Low carbon option to replace XPS
SUSTAINABILITY YOU CAN BUILD ON
You can’t put a price on the importance of more sustainable building solutions. Neopor® EPS makes the choice easy as a high-performing, low-cost option.

When comparing competitive materials, Neopor can entitle the same R-Values with up to 30% fewer raw materials. This “not only makes Neopor more sustainable, but often helps become the cost-effective choice as well. Like all insulators, Neopor® helps buildings achieve reductions in operational carbon by reducing the need to heat and cool the building. The Neopor® difference comes with its industry-low carbon footprint, which also contributes to reducing a building’s overall carbon footprint.

As demonstrated in the BCA Test, Neopor has the lowest carbon footprint of any rigid insulation available in North America, and is GreenGuard Gold certified. The GREENGUARD Gold Certification by an entirely Neopor Plus GPE has achieved GREENGUARD Gold Certification by UL Environment for products with low chemical emissions based on US EPA, GREENGUARD Certification Program for Chemical Exposures for Building Materials.

LESS IS MORE
up to 50x less carbon footprint
up to 10x less material mass
up to 8x less fresh water use
up to 2x less energy use

MAKING THE CASE TO REPLACE

FOR EVERY 100,000 SQFT OF R10 XPS REPLACED WITH NEOPOR:

Fresh Water Savings
- Avoid using up to 156,400 gallons of fresh water or enough to fill over 1.2 million 20 oz water bottles
Percent Savings: Fresh Water: 97.1% Weight: 44.3% Energy: 36.8% CO2: 96.8%

Weight Savings
- Avoid up to 12,400 pounds of extra mass, or the approximate weight of 1 elephant

Energy Savings
- Avoid using enough energy for up to 13 US households’ electricity consumption for 1 year

CO2 Savings
- Avoid emitting enough CO2 equal to 195 passenger vehicles driven for 1 year (average U.S. drivers)
- Avoid emitting enough CO2 equal to 2,248,250 miles driven by an average U.S. passenger vehicle
- Avoid emitting enough CO2 sequestered by 1,382 acres of U.S. forests in 1 year

FOR EVERY 100,000 SQFT OF R20 POLYISO REPLACED WITH NEOPOR:

Fresh Water Savings
- Avoid using up to 206,700 gallons of fresh water or enough to fill over 1.5 million 20 oz water bottles
Percent Savings: Fresh Water: 83.3% Weight: 39.9% Energy: 36.0% CO2: 88.4%

Weight Savings
- Avoid extra material mass equivalent to 3.59 adult African elephants

Energy Savings
- Avoid using enough extra material energy for 19 US households’ electricity consumption for 1 year

CO2 Savings
- Avoid emitting enough CO2 equal to 17 passenger vehicles driven for 1 year (average U.S. drivers)
- Avoid emitting enough CO2 equal to 100,600 miles driven by an average U.S. passenger vehicle
- Avoid emitting enough CO2 sequestered by 93 acres of U.S. forests in 1 year

*See back page for further explanation on environmental comparison.

Neopor Demonstrates Low Global Warming Potential (GWP)
Improve your carbon footprint with Neopor® solutions from BASF.
**Neopor® PLUS GPS TECHNICAL**

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

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<th>Property</th>
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<th>Neopor Plus GPS</th>
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<tr>
<td>ASTM C578 Classification</td>
<td></td>
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<tr>
<td>Compressive Resistance at yield of 10% deformation in psi (min)</td>
<td>6.0</td>
<td>10.0</td>
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<tr>
<td>Thermal Resistance (R-value)</td>
<td></td>
<td>F - R - BTU (°C - m²/°C) at 75°F</td>
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<td></td>
<td></td>
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<tr>
<td>Water Vapor Permeance</td>
<td></td>
<td>Max perm (mg/Pa - s - m⁻¹)</td>
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<td>Water Absorption by Total Immersion</td>
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<td>Flexural Strength</td>
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<td>Density</td>
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**SUSTAINABILITY YOU CAN BUILD ON**

www.neopor facil.us/commercial

**NEOPOR IN WALL SYSTEMS:** EIFS and Stucco system suppliers offer their systems insulated with Neopor GPS to deliver higher thermal performance or to reduce the overall wall thickness.

**EMBODIED CARBON**

With an industry leading low embodied carbon figure, Neopor reduces both operational and embodied carbon emissions in most projects. Learn more about carbon emissions by taking our 1HSW AIA accredited continuing education course or compare Neopor with competitors in the E23 Tool.

**NEOPOR 3-PART SPEC**

Correctly specify Graphite Polyurethane and BIM if Neopor by reviewing our three part specification for Division 7.

**BIM CONTENT**

Download our Revit-based BIM objects to help keep your project coordinated and accurate.

**NFS 285 COMPLIANCE**

Neopor has been listed as part of NFS285 compliant assemblies, with a wide range of weather barriers, air barriers, and dissoldings.

**QUALIFIED FOR USE IN ROOFING INSULATION**

As part of a UL Classified Class A, B, C roof covering assembly in accordance with UL 790, and as part of a UL Classified Roof Deck Construction in accordance with UL 1256.

**TRANSPARENCY DOCUMENTATION**

Access a product specific EPD, KEPD, GreenQuadrant GDI4 Certificate, Living Building Challenge declaration, and other transparency documentation for Neopor.

**UL RATED ASSEMBLIES**

Find the wide range of UL - assembles that list Neopor as an option, for exterior insulation in both wall and roofing applications.
Important Note:
While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. As environmental product declarations from different programs may not be comparable (refer to CAN/CSA-ISO 14029), the comparisons are made for illustrative purposes only and are based upon all reported life cycle stages of the compared impact categories from available environmental product declarations. The complete environmental product declarations highlighted can be found at neopor.com/bio. Additionally, factors may affect processing of application/use. BASF recommends that the reader shall itself determine the suitability of a product for a particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIP TIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. In no case shall the descriptions, designs, data or designs provided be considered a part of BASF’s terms and conditions of sale. Further, the descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, at such being given and accepted at the reader’s risk. Neopor® is a trademark of BASF SE. ICC-ES is a registered trademark of ICC-ES, UL® and GREENGUARD® are registered trademarks of UL. LEED® is a trademark of U.S. Green Building Council®. © BASF Corporation, 2021. EF-10026 01/21/2 Neopor® USA