

Helping you achieve LEED[®] Certification with Insulation Products made of Neopor[®]

Neopor[®] Graphite-Enhanced EPS – Innovation in Insulation

Neopor[®], the Silver-Gray, graphite-enhanced EPS manufactured by BASF, is used to produce many of the latest insulation innovations on the market today. Insulation products made with Neopor include Rigid Foam Sheathing, Structural Insulated Panels (SIP), Insulating Concrete Forms (ICF), External Insulating Finishing System (EIFS), Under-Slab Sheathing, Door Insulation and Window Profile Insulation.

Neopor-based products help improve thermal performance and control moisture in residential, commercial and institutional buildings, and do so at a lower cost than XPS, PIR or PU and at a cost comparable to white EPS.

Neopor is available in the marketplace in the form of 'Ingredient Branded' products. To provide confidence to designers and specifiers who want to be sure they get the outstanding insulation and sustainability performance of BASF Neopor, BASF administers a rigorous Ingredient Branding program for insulation product manufacturers. The Neopor Ingredient Brand, shown to the left, is evidence that the Silver-Gray foam insulation product is made with genuine Neopor EPS.

The LEED[®] (Leadership in Energy and Environmental Design) Green Building Rating System is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings created by the U.S. Green Building Council, <http://www.usgbc.org>. One important extension of our commitment to the environment is in supporting the U.S. Green Building Council's LEED Program. While many BASF products will help contribute to point acquisition, it is important to note that no products can be LEED certified or guarantee the acquisition of LEED points.



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Neopor[®]
Expandable Polystyrene

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Based on v3 - LEED 2009 with IEQ pilot credits

Write to us at:
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Visit the North American Neopor website at: www.neopor.basf.us

Questions about Neopor?
Write to us at: neopor-us@basf.com

[®] = reg. trademark of BASF SE

Neopor® and LEED®

This document brings the superior sustainability performance of Neopor to the LEED Certification process. This document applies to the LEED New Construction and Major Renovations, LEED Commercial Interiors, LEED Core & Shell, LEED for Schools and LEED for Existing Buildings, Operations & Maintenance products.

LEED Certification and the awarding of credits, is based on the overall project design, properly designed building systems and construction assemblies, and the performance of the project as a whole. Insulation products made of Neopor can be a component of many of these systems and assemblies, with all components within those systems and assemblies considered to assess compliance with the LEED Rating System used for certification within a given category. Insulation products made of Neopor contribute to the categories listed below.

LEED Credit Category	LEED Requirement
<p>Energy and Atmosphere (EA) – Prerequisite 2: Minimum Energy Performance</p> <p>Credit 1: Optimize Energy Performance Up to 19 points</p>	<p>10% performance improvement for new buildings or 5% better performance for renovated existing buildings, with baseline building performance rating calculated per method in Appendix G of ANSI/ASHRAE/IESNA standard 90.1-2007 for whole building simulation.</p> <p>Improve building performance rating compared with the baseline building performance rating, calculated per Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007 a whole project simulation model, with points awarded per energy cost savings in LEED table.</p>
<p>Materials & Resources (MR) – Credit 4: Recycled Content Up to 2 points</p> <p>Credit 5: Regional Material Up to 2 points</p>	<p>Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% (1 point) or 20% (2 points), based on cost, of the total value of the materials in the project.</p> <p>Materials/products extracted and manufactured (or fraction thereof) within 500 miles of project site for a minimum of 10% (1 point) or 20% (2 points), based on cost, of the total materials value (fractional quantities contribute as percentage by weight).</p>
<p>Pilot Credits – Credit 4.6: Low Emitting Materials Up to 3 points</p> <p>Credit 7 & 7.1: Thermal Comfort Possible 1 point</p> <p>Credit 9: Acoustic Performance Possible 1 point</p>	<p>Meet California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda for all interior products, including insulation.</p> <p>Design HVAC systems and building envelope to meet the requirements of ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy. Demonstrate design compliance in accordance with the Section 6.1.1 documentation.</p> <p>Apply ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools for STC rating of building shell, classroom and core learning space partitions; HVAC background noise at 40 dbA; windows at least STC 35.</p>
<p>Innovation in Design (ID) – Up to 5 points</p>	<p>Credit can be achieved through any combination of the Innovation in Design and Exemplary Performance.</p>

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