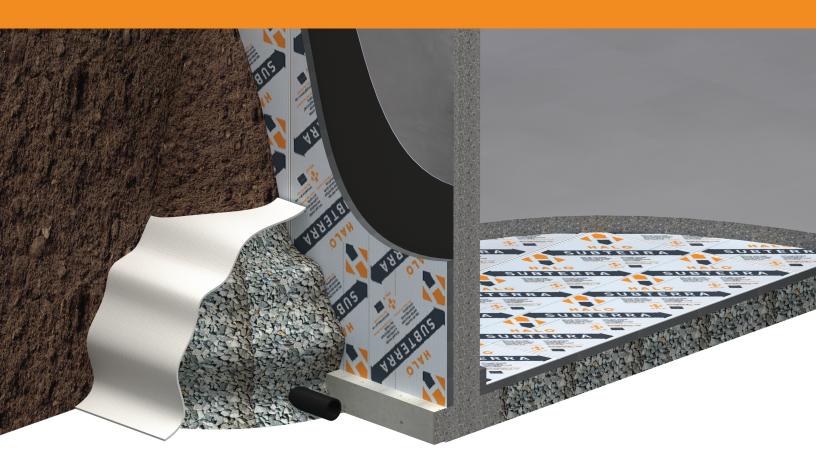
Advanced Below Grade Rigid Insulation





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Halo Subterra®

Perfectly Designed for Below-Slab Applications

The premium, professional-grade Rigid Insulation delivering higher, long-term R-value performance and a better overall value for the money compared to other materials. Subterra delivers maximum efficiency, cost-effectiveness, durability and sustainability for numerous construction applications.

Halo Subterra[®] Delivers Maximum Long Lasting Performance

Multi-Use Applications

Halo Subterra meets code requirements for Continuous Insulation and can be used in a variety of applications for both new construction and remodeling:

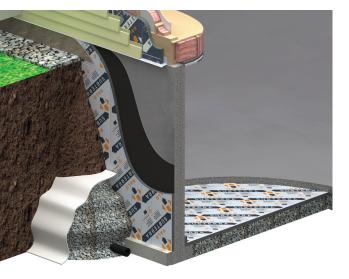
Roof

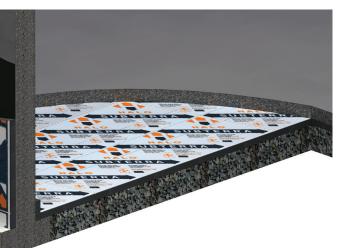
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Ground Contact



- Perimeter
- Interior Walls
- Basement Subfloor







The Science of High-Performing Neopor GPS®

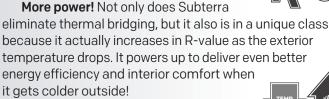
Halo Subterra is Powered by Innovative Neopor GPS (Graphite Polystyrene) from BASF.

Silver-Grey Neopor GPS is at the core of Subterra performance. Comprised of many small pockets of air within a polymer matrix of embedded graphite particles, this graphite reflects radiant heat energy like a mirror and increases the R-value, or resistance to heat flow.

The graphite component causes the heat to be reflected hundreds of times as it moves through the insulation. This significantly slows the transfer of heat, making Subterra more energy efficient

than other insulation. In fact, with Neopor GPS, our Halo Subterra delivers a powerful R-5

performance per nominal* inch in both low and medium density applications.



*nominal inch = 1.06





Proven Energy Efficiency

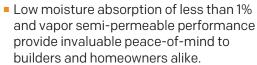
More and more architects, contractors and builders are constructing homes with greater energy efficiencywhile always having an eye on cost control and long-term performance.

- R-Value Performance:
- Subterra provides R-5 performance at a cost advantage versus other options.
- Holds its R-Value: After extreme long-term environmental testing by a respected independent laboratory, it held its R-value in conditions that involved both constant thermal gradient and cycling between large temperature and humidity variations.
- Adaptable to all climate zones, Subterra powers up when it gets cold outside. Insulating external walls with Neopor GPS increases the temperature of their inside surfaces which helps create a better indoor climate.

Moisture Management

Subterra high-performance insulation provides excellent moisture management-ultra low absorption even in wet conditions

 Reduces the risk of mold, rot, and structural damage tied to moisture condensation and long-term water retention.





 Third-party environmental testing (to ASTM C1512) concluded Neopor GPS-based insulation does not retain moisture and dries quickly after cycling from low to high humidity.

Stability and Durability

Subterra provides maximum flexibility and durability, making it perfect for today's demanding jobsites.

- Resistant to aging and decay to consistently deliver the highest true R-value performance over time with virtually zero thermal drift.
- Facers add strength and flexibility and are able to withstand severe foot and equipment traffic without breaking.
- Holds its physical properties after extreme environmental cycle tests, further confirming what building professionals have observed in real-world applications.
- High stability and durability in adverse soil conditions

Termite Resistant

- Subtera is protected from insect degradation with a specially formulated insect inhibitor.
- Completely safe for pets and humans.

Resource-efficient

- Neopor GPS uses up to 30% less material than other rigid foam insulation to achieve the same R-value, saving on building materials and installation labor.
- Localized manufacturing also reduces carbon footprint and contributes to LEED Certification.

**Finished goods manufactured by Progressive Foam Technologies, Inc. specifically for Canadian distribution do not contain insect inhibitor.





Fire Performance

- Subterra is self-extinguishing
- Complies the following performance standards as tested by a third-party, independent laboratory:
 - NFPA 285 Fire Test for flame spread
 - 2006 IBC Section 803.2.1
 - 2009 IBC Section 803.1.2 and Section 2603.
 - 2012 IBC Section 803.1.2 and Section 2603.10 Special Approval for Thermal Barrier Alternatives

Neopor GPS®-Third-party Validated And Certified

 Earned UL GREENGUARD Certification meeting chemical emissions requirements to help deliver superior indoor air quality.



- Referenced by The Collaborative for High Performance Schools (CHPS)
- Referenced by Leadership in Energy and Environmental Design (LEED[®]) Building Rating System.

Technical Properties

Compressive Strength ASTM D1621	10	15	25
Thermal Resistance [*] ASTM C518	5	5	5
Perm Rating* ASTM E96	>1	>1	>1
Moisture Content After Cycling ASTM C1512 0.03%		0.02%	0.04%
Flame Spread Index ASTM E84 UL 723	5	5	5
Smoke Development Index ASTM E84 UL 73	25	25	25
*per nominal inch (1.06″)			

Available Dimensions

Standard Panel Sizes: 2' x 8' and 4' x 8'

Standard Thicknesses: 1," 1.5," 2," 3"

For More Information:

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