NEOPOR® THERMAPLUS™ WRB PLUS CI + AB

For Above Grade Exterior Walls

INTEGRATHERM

TECHNICAL DATA SHEET

Exclusively using BASF Neopor GPS (Graphite Polystyrene) rigid foam in conjunction with weather-resistive barrier (WRB) is todays energy-efficient and cost-effective insulation solution.

The combination of both products creates Neopor ThermaPlus which can be used to insulate the exterior of your building, creating a complete envelope to help eliminate thermal bridging and reduce air infiltration.

Meet Codes with Neopor ThermaPlus

- Complies with the 2015, 2018, and 2021 International Energy Codes
- Building Code Compliance - QAI CERus-1019
- Meets ASTM C 578

Neopor ThermaPlus Material Properties

ASTM C578-23[1]	Type II
Compressive Resistance @10% def., Min. PSI	15
Flexural Strength Resistance Min., PSI	35
Water Vapor Permeance Max.[2], Perms	>1.0
Water Absorption Max., %	1.1
Dimensional Stability Max., %	2

[1] Unless noted otherwise, properties are based on 1" thickness without laminate.

[2] Based on an independent testing laboratory. Water vapor permeance properties tested without laminate and 1.0" thick Neopor

Neopor ThermaPlus Test Results

Test	Method	Results
Water Penetration	ASTM E331 per AC 71, Sec. 3.4	Pass
Water Resistance	AATCC 127 per AC 71, Sec. 3.1	Pass
Density	ASTM D 1622	1.35 pcf minimum
Compressive Strength	ASTM D 1621	> 15 PSI
Flexural Strength	ASTM C 203	> 35 PSI
Water Vapor Transmission	ASTM E 96 method	Qualify as a Class III vapor retarder
Air Permeance	ASTM E 283	Air impermeable
Surface Burning Characteristics	ASTM E 84/ UL 723	Less than 25 flame and 450 smoke development indexes
Thermal Insulation Value	ASTM C518	R5 – 1 1/16" thick at 75˚ F R10 – 2 1/8" thick at 75˚ F

Installation Basics:

1. Proper storage, handling, and installation of Neopor ThermaPlus is necessary to alleviate product damage.
2. Neopor ThermaPlus can be installed vertically or horizontally over many properly prepared substrates including framing, sheathing, concrete and CMU. All edges of Neopor ThermaPlus shall be supported by blocking, framing, sheathing or solid substrates.
3. Tightly abut adjoining sheets of Neopor ThermaPlus and fit around openings, penetrations, etc. Secure with appropriate type, length and spaced fasteners based on substrate type, Neopor ThermaPlus thickness, etc. as described in Neopor ThermaPlus Installation Guidelines.
4. Apply Construction Seam Tape per manufacturer's instructions across vertical, horizontal and other seams of adjacent sheets and pieces of Neopor ThermaPlus.
5. Flash and seal fenestrations, penetrations and openings with Flashing Tape installed per manufacturer's instructions or with other compatible materials that meet design and building code requirements.
6. Confirm proper installation of Neopor ThermaPlus, Construction Seam Tape, and flashings prior to installation of exterior wall covering.
7. Refer to Installation Guidelines and website for complete Neopor ThermaPlus application information.

Meet Sustainability Goals with Neopor ThermaPlus

- Available in R-5, R-7.5, R-10, or R-13 – Minimizes thermal bridging and helps cavity insulation perform better
- 15 psi Compressive Strength – Meets jobsite durability requirements without overuse of raw materials
- Excellent long-term thermal resistance (LTTR) – HFC free and provides stable R value over time
- Vapor Permeable – allows for design flexibility and increased building durability and resiliency
- Zero ozone-depletion potential and UL GREENGUARD Gold certified for air quality

Product Protection:

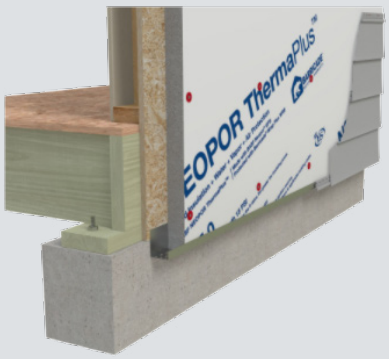
Prolonged direct sunlight exposure or reflected sunlight can adversely affect Neopor board insulation. Keep insulation inside protective packaging during storage, transportation and job site usage. Please refer to the Neopor Handling Instructions.

Availability and Warranty:

Warrantied and supplied across North America from IntegraTherm authorized manufacturers listed under QAI CERus-1019.

Tested, Trusted, True







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