



Neopor® F 5000 Plus Rigid Insulation Board Continuous Exterior Insulation (CI) Specifications and Performance

Physical Property	ASTM Method	Units	R-5	R-10	R-15
R-Value, 75° F	C518	Btu • in. / ft. ² hr • °F	5	10	15
Thickness	-	Inches	1- 1/16"	1-1/8"	3- 1/4"

Neopor® F5000 Plus graphite polystyrene foam sheathing profile

Property	Typical Results	Test Method
Compressive strength, min., PSI (kPa)	15.0 (104)	ASTM D1621
Water Vapor Permeance of 1.00 in (25.4mm) thickness, Min, perm (ng/Pa.s.m ²)	3.5	ASTM E96
Water Absorption by total immersion, max volume %	< 1.0	ASTM C272
Dimensional stability (change in dimensions), max. %	2	ASTM D2126
Classification	Type II	ASTM C578
Density, lb./ft ³ (kg/m ³)	Min. 1.35 (22)	ASTM D1622
Flame spread, max.	5	ASTM E84
Smoke developed, max.	25	ASTM E84
Board thickness,	+ 1/16" (1.6 mm)	N/A
Maximum Service Temperature °C (°F)	75 (167)	Constant
	82 (180)	Intermittent
Specific Heat Capacity Btu/lb. F	0.3227	
Building Code Compliance	ICC ESR 2784 / UL ER 5817-02	ICC / UL ER



Features and Benefits

Features	Benefits
Silver gray color	Distinguishable certified graphite enhanced foam insulation
Available in thermal values of R5, R10 as well as custom thicknesses	Easy to specify, align with R values and many thermal CI requirements in the International Energy Conservation Codes (IECC)
Breathable closed cell foam	Air, water vapor and thermal management
Neopor contact with wood framing as continuous insulation	Eliminates thermal bridging, improves thermal performance





Neopor Rigid Insulation Board Suppliers

BASF Neopor Rigid Insulation Board is exclusively available through the BASF Neopor manufacturing distributors that produce Neopor Rigid Insulation Board per the attached specifications and to the highest standard and are listed on the UL ER 5817-02 Evaluation Report.

Third Party Agency	Report Number	Report Link
Underwriters Laboratory	ULEX R5817	http://database.ul.com/certs/ER5817-02.pdf
International Code Council	ICC ESR-2784	http://www.icc-es.org/

Neopor Rigid Insulation board is produced in North America by insulation manufacturers who convert Neopor raw material supplied by BASF to rigid insulation board under BASF Quality Guidelines. The board carries the Neopor trademark but marketed under product names designed by the block molder. Reference to Neopor as an 'ingredient brand' is evidence that Neopor is inside the finished insulation board powering its insulation performance.

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