

ThermalTight™ Technical Data

Water - Air - Vapor + Thermal Panel

ThermalTight combines two essential building envelope materials into one, easy-to-install panel: Neopor® GPS (graphite polystyrene) semi-vapor permeable rigid insulation by BASF, and a self-gasketing, vapor-permeable, non-woven, non-perforated polypropylene laminated WRB adhered to the outside of the panel, that acts as both a water and air barrier.

The WRB features a patent-pending flap system to eliminate the "reverse shingle" common with panel systems that require taping on top of seams. Combined with its placement to the exterior of the wall assembly, ThermalTight creates one of the most effective air barrier and drainage systems for the building envelope.

APPLICABLE STANDARDS & CORRESPONDING PHYSICAL PROPERTIES

BASF Neopor Plus® GPS Properties		
Color		Grey
Composition		Graphite polystyrene
Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation	ASTM C578	Type II
Compressive Resistance min psi		15.0
Flexural Strength min psi		35.0
Water Vapor Permeance of 1" thickness, max perm		3.5
Water Absorption by total immersion		3.0
Dimensional Stability max %		2.0
Density Min lb/ft ³		1.35
Thermal Resistance @75° @40° @25°	R-Value	4.7 5.0 5.2

ThermalTight Panel Properties		
CLASS A or 1 Fire Rating	ASTM E84	FS<25, SD<450
Water Penetration @6.24 psf	ASTM E331	PASS
Air Leakage @6.27 psf	ASTM E283	PASS
UV Resistance		365 days
ThermalTight WRB Properties		
Color		White with teal blue ink
Composition		Non-woven, non-perforated polypropylene
Water Vapor Permeance of 1" thickness, max perm	ASTM E96	Method A: 42 Method B: 49
Basis Weight		105.4 gsm
MD Grab Tensile	ASTM D5034	58.6 lbf
CD Grab Tensile	ASTM D5034	50.6 lbf
MD Trapezoidal Tear	ASTM D5733	20.5 lbf
CD Trapezoidal Tear	ASTM D5733	22.8 lbf

thermaltight.com

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