QUIK-THERM™
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Performance Bulletin

Rigid Insulation Review

	Foil Faced Polyisocyanurate (Polyiso)	Mineral Wool Board (Roxul)	Extruded Polystyrene (XPS)	Quik-Therm (EPS Core with Metallic Polymer Facers)
Above Grade Testing	***R-Value and Thermal Performance***			
1" Thick R-Value (ASTM C518)	R-5.7 plus	R-4	R-4.88 (CCMC)	Type 1: R-3.8 Type 2: R-4.18
1/2" R-Value on Concrete Wall (ASTM C1363)	Unknown	Unknown	Unknown	R-3.83
1" R-Value on Concrete Wall (ASTM C1363)	Unknown	Unknown	Unknown	R-5.9
Long Term Thermal Resistance (LTTR)	Decreases	Unknown	Decreases	Stable
Performance in Cold Climates	Decreases	Unknown	Improved	Improved
Below Grade Performance	***Physical Characteristics***			
Compressive Strength	Not Recommended Below Grade	Poor	Excellent	Excellent
Water Vapour Transmission		Permeable	Semi-Permeable	Effectively Impermeable
Below Grade R-Value Modelling - Intertek		Unknown	Unknown	Yes
R-Value Performance Below Grade		Decreases	Decreases	Stable
Meets Vapour and Radon Barrier Requirements		No	Unknown	Yes
Durability - Does not easily chip or break		No	No	Yes
Cost Effectiveness	Moderate	Variable	Expensive	Reasonable
Product Ingredients	Isocyanate, Polyether Variable Facers	Mineral fibers & phenol-formaldehyde resin	Polystyrene / Gas Blowing Agent	5% Polystyrene / 95% Air Inert Polymer Facer

NOTES:

Third Party Research: National Research Council Canada below grade testing determined EPS retained 94% of its stated R-Value and its compressive strength remained stable.

US Department of Energy (ORNL) determined XPS below grade systems can experience a 10-44% loss of energy savings performance when subjected to moisture accumulation in the range of 8% - 16%.

EPS Bulletin 104: Compared to XPS, EPS exhibited superior drying potential in extreme conditions (ASTM C1512).

Quik-Therm Typical Physical Properties

Property	Above Grade (Quik-Therm MPI)	Below Grade (Quik-Therm SGI)	Interior Concrete Walls (Quik-Therm CIS)
R-Value Testing	Quik-Therm R-Value Testing available in Technical Data Sheets or at www.quiktherm.com		
Nominal Density (pcf)	1	1	1
Compressive Strength (psi)	13	Type 1 - 12.7 psi Type 2 - 19.2 psi Type 3 - 26.7 psi	13
Water Vapour Transmission (perms)	<1.0	<1.0	<1.0
Flame Spread	250	—	250
Smoke Density	410	—	410
Flexural Strength (psi)	—	202	—
Dimensional Stability (maximum %)	—	< 1.5%	—

Made in Canada

Tested By Canadian Accredited Laboratories.