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The Barrier™ & BarrierXT Under Concrete Insulation

Test Data Sheet

Material: Barrier: 3/8” thick extruded expanded polystyrene foam, 4’x 60’ rolls.
BarrierXT: 3/4” thick extruded expanded polystyrene foam, 4’x 60’ rolls.

Test Method(s)

The industry standard Thermal Conductivity Resistance test method using ASTM Standard C-518 - “Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus” was used for testing.

Thermal Conductivity Resistance Values

Product	R-Value
3/8” Barrier @ 75°	1.7
3/8” Barrier @ 75° 8” Concrete Assembly	4.0
3/4” BarrierXT @ 75°	3.4
3/4” BarrierXT @ 50° 8” Concrete Assembly	5.7

Assembly consisted of 3.625” of concrete, Barrier, 1” of sand and 3” of #57 gravel

Water / Vapor Permeability Values

The industry standard Water Permeability Test Method (ICBO Sections 4.6.1 & 4.6.2) and Water Vapor Permeability Test Method (Procedure B of ASTM E96) were used for moisture transfer testing.

Water Permeability Transfer Permeance (grains/hr ft x 2 in. Hg)	Water Vapor Permeability Transfer Permeability (grains/hr ft x 2 in. Hg)
0.000	0.000

Additional Comments by testing facility:

“This product meets or exceeds the ICBO conditions for acceptance. At the end of 24 hours, there was NO indication that any water had dripped from the underside of the specimens. In fact, a 3.5” head of water (rather than the required 2.0” head for 24 hours) was employed, with the same results after a period of 96 hours”.

ALL TESTING HAS BEEN PERFORMED BY A CERTIFIED TESTING LABORATORY

Note: These typical property values are intended as guidelines only, and not as specification limits. R value means resistance to heat flow. The higher the R-Value the greater the insulating power.