

Signature
CRYPTON® CARPET



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To: Sales Team
From: John McIntosh
CC:
Date: 11-11-09
Re: Thermal Insulating Properties

White Paper

Heating and cooling commercial buildings is expensive. Products that contribute thermal resistance can help improve energy costs.

Signature Crypton Carpet with BioCel demonstrates an R-value up to 65 percent greater than conventional carpet products.

R-Value assessment – Test Method ASTM C 518

Thermal resistance is measured with a heat flow meter. The higher the R-value, the greater the insulating properties. Typical ratings as measured by an independent test lab include:

Carpet with conventional backing (Style, A, 26oz. face wt)	0.51 R-Value
Signature Crypton Carpet with BioCel Laminate	0.84 R-Value

Thermal resistance can also be expressed as an R-per-inch value, or the R-value of a 1-inch thickness of material. By converting the above R-values to R-per-inch equivalents, the insulating ability of carpet products can be compared to that of other common building products:

Concrete	0.10 R-per-inch
Plywood	1.25 R-per-inch
Carpet with conventional backing	1.89 R-per-inch
Signature Crypton Carpet with BioCel	2.11 R-per-inch
Fiberglass Insulation	3.20 R-per-inch