

August 15, 2020
Technical Bulletin #114

Subject: Vapour Permeance Performance of Boreal Nature Elite

When tested at 50mm, Genyk Boreal Nature Elite has a vapour permeance of 34ng/(P*s*m²). Thus, Boreal Nature Elite exceeds the NBC requirement of 60ng/(P*s*m²). Further, with additional thickness of Boreal Nature Elite, the product’s vapour permeance decreases. Below is a chart demonstrating the improved performance based on thickness.

	50mm	65mm	76mm	90mm	102mm
Vapour Permeance ng/(Pa*s*m ²)	34	30	26	23	20

Supplemental products are rarely required when using Boreal Nature Elite in higher humidity installations. Associated with the enclosed data is the University of Waterloo research project tracking the performance of closed cell spray foam insulation in different applications. Also relevant is a research project regarding unvented applications. Both research projects (found on Genyk website) support the ability of closed cell spray foam’s ability to resist moisture.

Genyk is confident in the ability of Boreal Nature Elite to withstand consistent relative humidity levels greater than 70%. On rare occasions (indoor swimming pools), additional vapour retarding materials have been installed in addition to the Boreal Nature Elite. Please note, unless the interior relative humidity is expected to be greater than 85%, this practice is not considered necessary.



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