

February 25, 2021

## **TECHNICAL BULLETIN #202 – ‘Boreal Elite’ Underslab Performance**

Genyk ‘Boreal Elite’ is a successful product in underslab installations as well as geothermal underground applications.

As an underslab insulation material, Genyk ‘Boreal Elite’ also serves the purpose of vapour barrier and radon protection membrane.

Regarding the vapour barrier characteristics - in accordance with the CAN/ULC S705.1 Material Standard, the vapour permeance of Genyk ‘Boreal Elite’ is measured using the ASTM E96 method. At 50mm, Genyk ‘Boreal Elite’ has a vapour permeance performance rating of  $34\text{ng}/(\text{Pa}\cdot\text{s}\cdot\text{m}^2)$ . The product exceeds the requirements of the OBC –  $60\text{ng}/(\text{Pa}\cdot\text{s}\cdot\text{m}^2)$  as stated in OBC 9.25.4.2.(1). Further, increases in thickness have a linear improvement in vapour permeance. Thus, at 65mm, the vapour permeance performance rating will be  $30\text{ng}/(\text{Pa}\cdot\text{s}\cdot\text{m}^2)$ .

Similarly, the air permeance of Genyk ‘Boreal Elite’ is measured using the CCMC 07273 methodology. The air permeance performance of Genyk ‘Elite’ directly correlates to radon gas protection. Genyk ‘Boreal Elite’ has an air permeance performance rating of  $0.001\text{ L}/(\text{s}\cdot\text{m}^2)$ . The product exceeds the requirements of the OBC –  $0.02\text{ L}/\text{s}\cdot\text{m}^2$  as stated in OBC 9.25.3.2.(1).

If you require any further information on Genyk products, I am available anytime at 226.339.3089.

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