



May 1, 2020

LEED CERTIFICATE OF COMPLIANCE

GENYK certifies that *Boreal Nature Elite* medium density spray polyurethane foam insulation conforms to the requirements of LEED as follows:

ENERGY & ATMOSPHERE



EA 1: OPTIMIZE ENERGY PERFORMANCE

Requirements – Increase levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use – (1 to 21 points)

Boreal Nature Elite is an integral air/vapour barrier insulation with superior thermal resistance performance. Given *Boreal Nature Elite's* significant thermal resistance, increased R-values are possible within smaller spaces. Further, the product's air/vapour barrier qualities eliminate the need for additional components in the building envelope assembly. More thermal resistance in smaller areas with less material usage.

MATERIALS & RESOURCES



MR 1.1: BUILDING REUSE: MAINTAIN EXISTING WALLS, FLOORS AND ROOF

Requirements –
Maintain 55% of existing walls, floors and roof (1 point)
Maintain 75% of existing walls, floors and roof (2 points)
Maintain 95% of existing walls, floors and roof (3 points)

Boreal Nature Elite is an incredibly durable product. Once installed, *Boreal Nature Elite* does not deteriorate. Previously installed material is easily adaptable to renovation projects. Additional material is easily added to pre-existing applications.

On-site construction waste is negligible. The waste is limited to masking materials and minimal amounts of product waste. *Boreal Nature Elite* comes to the jobsite in packaging materials (drums, totes) that are recyclable.



MR 4: RECYCLED CONTENT

Requirements –

Recycled content: 10% [Post-Consumer + ½ Post Industrial] – (1 point)

Use materials with recycled content such that the sum of post-consumer recycled content plus one half of the post-industrial content constitutes at least 10% of the total value of the materials in the project.

Recycled content: 20% [Post-Consumer + ½ Post Industrial] – (1 additional point)

Use materials with recycled content such that the sum of post-consumer recycled content plus one half of the post-industrial content constitutes at least 20% of the total value of the materials in the project.

Boreal Nature^{Elite} exceeds 7.5% post-consumer recycled content (final product, by mass).

Boreal Nature^{Elite} exceeds 10.5% post-industrial recycled content (final product, by mass, externally sourced).



MR 5: REGIONAL MATERIAL

Requirements –

20% extracted and manufactured regionally – (1 point)

30% extracted and manufactured regionally – (additional 1 point)

Use a minimum of 20%/30% of building materials or products within 800 km of the project site or 2400 km when shipped by rail or water.

7.5% of the *Boreal Nature^{Elite}* (finished product) comes from extraction sites located 75 km from the GENYK manufacturing plant.



MR 6: RAPIDLY RENEWABLE MATERIALS

Requirements –

Use rapidly renewable materials for 2.5% of all building materials in the project – (1 point)

9.5% of the *Boreal Nature^{Elite}* (finished product) comes from renewable products.

INDOOR ENVIRONMENTAL QUALITY



IEQ 4.1: LOW-EMITTING MATERIALS: ADHESIVES & SEALANTS

Requirements –

*Reduce the quantity of indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installers and occupants – (1 point)
LEED requirement for VOC is 50g/L*

Boreal Nature^{Elite} contains no formaldehyde, CFCs, HCFCs or HFCs.

Boreal Nature^{Elite} has passed the CAN/ULC S774 – Standard Laboratory Guide for the Determination of Volatile Organic Compound Emissions from Polyurethane Foam.

Boreal Nature^{Elite} is GREENGUARD GOLD certified.

Boreal Nature^{Elite}'s VOC component content –

After 12 hours – 0.0000173g/L

After 30 days – 0.00000167g/L



IEQ 7.1: THERMAL COMFORT: DESIGN

Requirements –

Provide a thermally comfortable environment that supports the productivity and well-being of building occupants – (1 point)

Boreal Nature^{Elite} is an integral air/vapour barrier insulation with superior thermal resistance performance. As such, Boreal Nature^{Elite} contributes to the efficiency of the building envelope.



IEQ 7.2: THERMAL COMFORT: VERIFICATION

Requirements – Provide thermal comfort over time – (1 point)

Boreal Nature^{Elite} is an incredibly durable product. Once installed, Boreal Nature^{Elite} does not deteriorate. As an integral component of the building envelope, Boreal Nature^{Elite} contributes to the thermal efficiency of the home.