

SPRAY FOAM INSULATION



Boreal Nature Elite is a closed-cell medium density spray-applied polyurethane foam insulation formulated with environmentally responsible HFO blowing agents. The product is manufactured without ozone depletion substances (Zero ODS).

Boreal Nature Elite has been tested by an independent laboratory and accredited by CCMC. The finished product surpasses the CAN/ULC S705.1-15 material standard requirements.



BOREAL ELITE is formulated with plant-based materials, recycled products, captured rainwater and lavender extracts. Environmentally responsible behaviour is a Genyk standard.

Standard - 1in (R6) insulation.

For extreme cold temperature installations it is recommended to upgrade to a 2in (R12) insulation.

PHYSICAL PROPERTIES – CCMC # 14140-L				
PHYSICAL PROPERTIES	REQUIREMENTS		STANDARD	RESULT
	Min.	Max.		
Core Density	28.0 kg/m ³	---	ASTM D1622	32.0 kg/m ³ (2.0 lb/ft ³)
Compressive Strength	170 kPa	---	ASTM D1621	228 kPa (33.1 psi)
Tensile Strength	200 kPa	---	ASTM D1623	205 kPa (29.7 psi)
Water Vapour Permeance (50mm thickness)	60 ng(Pa.s.m ²)		ASTM E96 (Procedure A)	34 ng(Pa.s.m ²)
Surface Burning (flame spread index)	---	500	CAN/ULC S127-14	285
Fungi Resistance	No growth	---	ASTM C1338	No growth
Long Term Thermal Resistance				
Thickness 25 mm	Declared	---	CAN/ULC- S770-09	0.93 RSI
Thickness 50 mm	1.80 m ² *K/W	---		1.96 RSI
Thickness 75 mm	Declared	---		2.93 RSI
Thickness 100 mm	Declared	---		4.12 RSI
Air Permeance	---	0.02	ASTM E2178	0.001 L/(s.m ²)
Recommended Time to Occupancy	1 day	30 days	CAN/ULC S774	25 hours
Open Cell Content	---	10.0%	ASTM D6226 (Procedure 2)	2.8 %
Water Absorption (volume)	---	4.0%	ASTM D2842 (Procedure A)	1.6 %
Dimensional Stability			ASTM D2126 (28 days)	
	-2	+5	-20°C	-1 %
	-2	+8	80°C	+2 %
	-2	+14	70°C, 97% (RH±3%)	+13 %
PHYSICAL PROPERTIES – ADDITIONAL TESTING				
Air Barrier Systems	CCMC Masterformat 07 27 09.01		CCMC Report in process	
Long Term Thermal Resistance (50mm)	CAN/ULC- S770-03		2.14 RSI (R 6.2/in)	
Surface Burning (flame spread index)	CAN/ULC S102-10		30	
Recycled Content	N/A		17.4 %	
Renewable Materials Content (Vegetable oils)	N/A		5.8 %	
15 minutes wall assembly high heat	NBC, Article 3.2.3.8 Protection of Exterior Building Face, Sentence 2 CAN/ULC S101 15-minute Stay In Place test (Steel face – Cement board and stucco)		Met the requirements. Independent laboratory report available upon request.	

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