

**CLIENT:** GENYK  
1701, 3E Avenue  
Grand Mere, QC  
G9T 2W6

<b>Test Report: T1296-1Rev1</b>	<b>Revised Issue Date: September 12, 2019</b>
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**SUBJECT:** Testing of Genyk Boreal Nature Elite medium density Spray Applied Plastic Foam (SPF) Insulation to CAN/ULC S705.1 and as per CCMC Evaluation Directive 07 21 19.02.

**SAMPLE ID:** Genyk Boreal Nature Elite spray applied polyurethane foam of nominal density of 2.05 pcf.

**SAMPLING DETAIL:** Formulation of witnessed samples were confirmed to be of documented product formulation, signed and dated by QAI Representative Gabriel LeBlanc on September 5, 2018. The product formulation and components were confirmed representative of documented formulation in accordance with Sections 5.1 and 5.2 of CAN/ULC S705.1-15. The witnessed batches were used for spraying of test samples noted below.

All samples tested in the following test report were composed of one product lot, sprayed under witness by QAI, complying with Section 5.1 and 5.2 of CAN/ULC S705.1-15.

**TESTING PERIOD:** September 2018 to July 2019.

**AUTHORIZATION:** Proposal 18NT081001-01 was accepted, authorized and signed for by Yves Rondeau dated August 15, 2018.

**TEST PROCEDURES:**  
1) **CAN/ULC S705.1-15**, *“Standard for Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification”*.

Products outlined in this report were tested for CCMC evaluation purposes.

**CONCLUSIONS:** Genyk Boreal Nature Elite medium density Spray Applied Foam Plastic (SPF) Insulation evaluated by QAI had the following results:

All tested specimens meet all aspects of the standard when tested per CCMC Evaluation Directive 07 21 19.02 related to Section 2, Testing.

Detailed results can be found on subsequent pages of this report.

**RESULTS SUMMARY:**

Property	Unit	Requirement		Result/Comment	Pass/Fail
		Min	Max		
Air Permeance	L/(s·m <sup>2</sup> )	--	0.0200	0.0010	Pass
Core Density	kg/m <sup>3</sup>	28.0	--	32.0	Pass
Compressive Strength	kPa	170	--	228	Pass
Dimensional Stability					
-20°C	%	--	-2/+5	-1	Pass
80°C	%	--	-2/+8	+2	Pass
70°C & 97±3%RH	%	--	-2/+14	+13	Pass
Fungi Resistance	--	No Growth	--	No Growth	Pass
Long Term Thermal Resistance					
at 25mm thickness	m <sup>2</sup> ·K/W	Declare	--	0.93	n/a
at 50mm thickness	m <sup>2</sup> ·K/W	1.80	--	1.96	Pass
at 75mm thickness	m <sup>2</sup> ·K/W	Declare	--	2.93	n/a
at 100mm thickness	m <sup>2</sup> ·K/W	Declare	--	4.12	n/a
Open-Cell Content	%	--	10.0	2.8	Pass
Surface Burning (Flame Spread)	--	--	500	285	Pass
Tensile Strength	kPa	200	--	205	Pass
Time to Occupancy	d – days	--	30	1	Pass
Water Absorption	%	--	4.0	1.6%	Pass
Water Vapour Permeance	ng/(Pa·s·m <sup>2</sup> )	--	60	34	Pass

Prepared By



Robert Giona  
 Senior Technologist

Signed for and on behalf of  
 QAI Laboratories Ltd.



Matt Lansdowne  
 Business Manager