UL Solutions Evaluation Report

ULC ER41037-05

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UL Category Code: ULEX7 - Thermal Protection for Canada

CSI MasterFormat®
DIVISION: 07 00 00 Thermal and Moisture Protection
Sub level: 07 21 00 Thermal Insulation
Sub level: 07 21 19 Foamed-In-Place Insulation

COMPANY:

BASF Canada Inc.
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1. Subject

Enertite G spray foam insulation

2. Scope of evaluation

Compliance with the following codes:

2020 National Building Code of Canada, Second Printing / March 2025
Clause 1.2.1.1.(1)(b) Compliance with this Code using an Alternante Solutions that achieves at least the minimum performance required by Division B objectives and functional statements attributed to the applicable acceptable solutions

Part 9 – Housing and Small Buildings
Article 9.25.2.2 Insulation Materials
Article 9.25.2.5 Installation of Spray-Applied Polyurethane

The product was evaluated for the following properties:

- Surface Burning Characteristics (CAN/ULC 102)
- Physical Properties (CAN/ULC 712.1)

3. Reference documents

CAN/ULC 102 Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
CAN/ULC 712.1 Standard for Thermal Insulation, Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Material Specification
CAN/ULC 712.2 Standard for Thermal Insulation, Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Application

4. Uses

The BASF Canada Inc. **Enertite G**, a light density, open cell spray-applied semi-rigid polyurethane foam material is intended for use as a building thermal insulation; installed in above-grade exterior walls (interior side only), cathedral ceilings, floor above garages, cantilever floors, interior side of foundation walls and vented attic floors.

This Report does not cover the Enertite G for use in exterior roofing applications, radon resistance systems, fire resistive construction, in contact with water or exposed exterior wall application. Additional evaluations and testing required to meet these and other applications.

5. Product description

The **Enertite G** product is a spray applied, semi-rigid polyurethane light density foam insulation. The site sprayed foam system consists of two components, isocyanate and resin. The two components are mixed on site by qualified installers with a fixed-ratio positive displacement equipment and applied at a density of 8.9 kg/m^3 (0.56 pcf). The colour of the final product is cream.

The Enertite G thermal insulation was evaluated for the performance characteristics as reported below in Table 1 Performance Characteristics with testing in accordance with sections of the following test standards:

CAN/ULC 712.1:2024, Standard for Thermal Insulation, Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Material Specification

Table 1: Enertite G Performance Characteristics

Properties	Requirements	Results
Air Permeance	Declare	0.037 L/(s·m^2)@75Pa
Apparent Core Density	≥ 6.8 to ≤ 12 kg/m^3	8.9 kg/m^3
Dimensional Stability		
28 d at -20±3°C, ambient humidity	Max. -1 / +10%	+0.1%
28 d at 80±2°C, ambient humidity	Max. -15 / +10%	-3.7%
28 d at 70±2°C, 97±3% R.H	Max. -15 / +14%	-12.9 %
Fungi Resistance	No Growth	Pass
Open Cell Content	≥ 80%	98%
Surface Burning Characteristics		
Flame Spread Rating (CAN/ULC-S102)	≤ 500	Compliant
Flame Spread Rating (CAN/ULC-S127)	≤ 500	Compliant
Thermal Resistance @ 50mm thickness (30 days)	≥ 1.20 m^2·K/W	1.23 m^2·K/W
Time to Occupancy	≥1 day, ≤ 30	1 Day
Water Vapour Permeance @ 50mm thickness	≥ 400	882 ng/(Pa·s·m^2)

6. Installation

Installation of the insulation must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions are to be available at the jobsite at all times during installation.

- Installation must be by a licensed installer in accordance with the manufacturer's directions and follow CAN/ULC 712.2.
- The nominal minimum site density must comply with the above requirement, as measured on-site in accordance with CAN/ULC 712.2.
- The time to re-occupancy during retrofit construction is a minimum one day (24 hours).

7. Conditions of use

The Enertite G material described in this Report has been evaluated in accordance with code sections listed in Section 2.0, subject to the following conditions:

- Materials and methods of installation must comply with this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- This product is manufactured in Toronto ON, Blackie AB and Houston TX under UL's audit of quality elements.
- This product is combustible. Based on the flame spread, this product may require additional protection from fire.
- The Enertite G elements remain under a UL quality audit program where UL/ULC Field Engineering staff audit material manufacturing facilities.

8. Supporting evidence

BASF Canada Inc. has submitted technical documentation for ULC's review. Testing was conducted at laboratories recognized as ISO/IEC 17025 compliant. The test data submitted for this product is summarized below.

- Sample Selection of Enertite G test materials at the BASF Houston facility.
- Data in accordance with CAN/ULC 712.1, compliant test reports.
- CAN/ULC 774 VOC test report by an ISO/IEC 17025 accredited test lab.
- Human Health Risk Assessment of Volatile Organic Compound by Toxicology (Ph.D.).
- Caliber Quality Solutions Inc. (Certification Organization / SQAP / site inspections).

9. Identification

The BASF Canada Inc. **Enertite G** thermal insulation described in this evaluation report is identified by a marking bearing the report holder's name (BASF) and the evaluation report number **ULC ER41037-05**. The validity of the evaluation report is contingent upon this identification appearing on the product drums.

The CAN/ULC 712.1 standard, Section 12 Packaging and Labelling, requires liquid component container to be clearly identified as isocyanate or resin components, and labelled at a minimum with the ULC Standard number (CAN/ULC 712.1), thermal resistance at 50mm (RSI), lot number and expiry date, country of manufacture.

10. Client locations / contact

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11. Use of Evaluation Report

11.1 The approval of building products, materials or systems is under the responsibility of the applicable authorities having jurisdiction.

11.2 ULC Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by ULC.

11.3 The current status of this report, as well as a complete directory of UL Evaluation Reports may be found at UL.com via our Product iQ™ database.

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with respect to this report and the subject or product described herein. Contents of this report may be based on data that has been generated by laboratories other than UL Solutions that are accredited as complying with ISO/IEC Standard17025 by the International Accreditation Service (IAS) or by any other accreditation body that is a signatory to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). The scope of the laboratory's accreditation shall include the specific type of testing covered in the test report. As the accuracy of any non-UL Solutions data is the responsibility of the accredited laboratory, UL Solutions does not accept responsibility for the accuracy of this data.

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