

CCMC 13697-L

CCMC Standard compliance evaluation

CCMC number:	13697-L
Status:	Active
Issue date:	2014-12-11
Modified date:	2021-11-17
Evaluation holder:	Elastochem Specialty Chemicals Inc. 37 Easton Road Brantford ON N3P 1J4 Canada Website: www.elastochem-ca.com Telephone: 519-754-1678 Email: info@elastochem-ca.com
Product name:	Insulthane® Extreme ccSPF
Evaluation requirements:	<u>CAN/ULC-S705.1-01, Amendment: 1 & 2, Type: 2</u> <u>CAN/ULC-S705.1-15</u>

In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.

[Learn more about CCMC recognition](#)

Product information

Product name

Insulthane
Extreme ccSPF

Product description

Ozone-depleting Substances and Halocarbon Alternatives Regulations (ODSHAR)

The evaluation holder attests that this/these product(s) contains a foaming agent that is compliant with the Ozone-depleting Substances and Halocarbon Alternatives Regulations, which is administrated by Environment and Climate Change Canada (ECCC)

The product is a closed-cell, spray-applied rigid polyurethane foam of medium density. The foam system consists of two components that must be labelled as follows along with "CCMC 13697-L":

- Isocyanate (Component A): Insulthane[®] Extreme ccSPF isocyanate; and
- Resin (Component B): Insulthane[®] Extreme ccSPF.

The two components are mixed on-site by an Elastochem Specialty Chemicals Inc.-qualified installer with fixed-ratio positive displacement equipment. The colour of the installed final cured product is burnt sienna.

Manufacturing plants

This evaluation is limited to products produced at the following plant(s):

- Brantford, Ontario, Canada

Technical information

This evaluation is based on demonstrated conformance with the following criteria:

Criteria number	Criteria name
<u>CAN/ULC-S705.1-01, Amendment: 1 & 2, Type: 2</u>	Standard for Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification
<u>CAN/ULC-S705.1-15</u>	Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Material Specification

Design values

The product's classification, minimum site density, long-term thermal resistance (LTTR), water vapour permeance (WVP) and time-to-occupancy values are provided in the tables below:

Conformance with CAN/ULC-S705.1-01, including Amendments 1 and 2

Classification, site density, LTTR, WVP and time-to-occupancy specifications for the product

Product	Classification	Minimum site density ⁽¹⁾ (kg/m ³) [lb/ft. ³]	50 mm Design LTTR (m ² ·°C/W)	50 mm WVP ⁽²⁾ (ng/(Pa·s·m ²))	Time-to-occupancy ⁽³⁾ (hours)
Insulthane Extreme	Type 2	36.0 [2.2]	2.10	23	25

Notes:

- ¹ Based on the qualification testing to CAN/ULC-S705.1, the specified minimum site density must comply with CAN/ULC-S705.1, as measured on-site in accordance with CAN/ULC-S705.2-05, "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density – Application."
- ² The water vapour permeance (WVP) is determined from a core sample with the top skin removed. Due to the effect of the skin, the WVP at this thickness would be lower in the site-installed product.
- ³ For retrofit construction, the time to occupancy is twenty-five (25) hours when the segregated retrofit area is ventilated as required by CAN/ULC-S705.2 during installation of the product. See the Evaluation Requirements for more information.

Conformance with CAN/ULC-S705.1-15

Site density, LTTR, WVP and time-to-occupancy specifications for the product

Product	Minimum site density ⁽¹⁾ (kg/m ³) [lb/ft. ³]	50 mm Design LTTR (m ² ·°C/W)	50 mm WVP ⁽²⁾ (ng/(Pa·s·m ²))	Time-to-occupancy ⁽³⁾ (hours)
Insulthane Extreme	34.5 [2.2]	1.92	39	25

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Notes:

- 1 Based on the qualification testing to CAN/ULC-S705.1, the specified minimum site density must comply with CAN/ULC-S705.1, as measured on-site in accordance with CAN/ULC-S705.2-05, "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density – Application."
 - 2 The water vapour permeance (WVP) is determined from a core sample with the top skin removed. Due to the effect of the skin, the WVP at this thickness would be lower in the site-installed product.
 - 3 For retrofit construction, the time to occupancy is twenty-five (25) hours when the segregated retrofit area is ventilated as required by CAN/ULC-S705.2 during installation of the product. See the Evaluation Requirements for more information.
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Qualified installers

This is a site-manufactured product whereby Elastochem Specialty Chemicals Inc. requires that only specific qualified installers be authorized to install their proprietary spray-applied polyurethane insulation in buildings. In accordance with Elastochem Specialty Chemicals Inc.'s site quality assurance program (SQAP), the certification organization Urethane Foam Consultants (UFC) has been commissioned to license the specified installers and issue them the requisite UFC identification card. All specified installers must have a UFC identification card.

Third-party field auditing of qualified installers

Elastochem Specialty Chemicals Inc., as part of their SQAP, also stipulates site audit inspections be conducted by site inspectors licensed by UFC. Upon completion of the site audit of the specified installers, UFC will report the product's conformity results and any corrective action required, if necessary, to Elastochem Specialty Chemicals Inc. Building officials who would like site-audit inspections to be conducted on specific building sites can contact UFC at:

Urethane Foam Consultants

160 Main St. S., Suite 547, Brampton, ON L6W 4C1

Tel.: 905-702-2555

Fax: 905-456-9439

Website: foamexperts.ca

Administrative information

Disclaimer

This evaluation is issued by the Canadian Construction Materials Centre (CCMC), part of the Construction Research Centre at the National Research Council of Canada (NRC). The evaluation must be read in the context of the entire [CCMC Registry of Product Assessments](#) and the legislated applicable building code in effect.

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It is the responsibility of the local AHJs, design professionals, and specifiers to confirm that the evaluation is current and has not been withdrawn or superseded by a later issue. Please refer to [the website](#) or contact:

Canadian Construction Materials Centre

Construction Research Centre
National Research Council of Canada
1200 Montreal Road
Ottawa, Ontario, K1A 0R6
Telephone: 613-993-6189
Fax: 613-952-0268

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Language

Une version française de ce document est disponible.

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CCMC recognition

The Canadian Construction Materials Centre (CCMC) assesses compliance with Canadian building, energy and safety codes. We are the only construction code compliance service supported and operated by the Government of Canada. Trusted by over 6,000 regulators across Canada.

Most Canadian authorities having jurisdiction (AHJs) consider CCMC product assessments acceptable as evidence for product approval.

CCMC assessments are recognized by construction authorities across Canada:

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(Alliance of Canadian Building Official Associations (ACBOA))

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Canadian Home Builders' Association (CHBA)



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(Alberta Building Officials Associations (ABOA))

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(Saskatchewan Building Officials Association (SBOA))

Manitoba Building Officials Association (MBOA)



(Manitoba Building Officials Association (MBOA))

Ontario Building Officials Association (OBOA)



(Ontario Building Officials Association (OBOA))

New Brunswick Building Officials Association (NBBOA)



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(Nova Scotia Building Officials Association (NSBOA))

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For more information, contact the CCMC by phone at (613) 993-6189 or by email at ccmc@nrc-cnrc.gc.ca

For the latest version of this evaluation consult the [CCMC Registry of Product Assessments](#)

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