


UNDERSTANDING CCMC LISTINGS FOR SPRAY POLYURETHANE FOAM INSULATION



CONSTRUCTION

Evaluation Listing CCMC 14100-L
Walltite® CM01

1. Evaluation

The product conforms to CAN/ULC-S705.1-15, "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Material Specification." The product's minimum site density, long-term thermal resistance (LTTR), water vapour permeance (WVP) and time-to-occupancy values are provided in Table 1.1.

Table 1.1 Minimum 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 LTTR (m ² ·°C/W)	50 mm WVP ⁽²⁾ (ng/(Pa·s·m ²))	Time-to-Occupancy ⁽³⁾ (day)
Walltite® CM01	29.67 [1.85]	1.82	56	1

Notes to Table 1.1:

- (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, "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 skin removed. Due to the effect of the skins, the WVP at this thickness would be lower in the site-installed product.
- (3) For retrofit construction, the time to occupancy is one (1) day when the segregated retrofit area is ventilated as required by CAN/ULC-S705.2 during installation of the product. See Note 3 in Table 1 in the Annex for the product for further details.

CCMC is a third party listing agency that verifies which version of the standard a product meets.


The first statement of the CCMC report identifies the edition of the standard that a product has been evaluated to. Make sure that this edition of the standard meets the requirements of your province's code.

The Second Printing of the 2015 National Building Code of Canada references CAN/ULC S705.1-15 as does the Ontario Building Code revisions that became effective January 1, 2020.

For Ontario, spray foams must meet CAN/ULC-S705.1-15 to ensure compliance with the Ontario building code for permits issued after January 1, 2020. Foams that meet earlier versions of the standard (CAN/ULC S705.1-01) may need to be removed if deemed necessary by the AHJ.

CAN/ULC S705.1-15 has the following updates:

- Tighter limits for dimensional stability
- Requires fungi resistance testing
- Requires Long Term Thermal Resistance Testing to CAN/ULC S770-09, a more complex than CAN/ULC S770-03 which is referenced in CAN/ULC S705.1-01.



CONSTRUCTION

Spray-Applied Rigid Polyurethane Foam Insulation, Medium Density [Annex]

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Scope

These Evaluation Listings apply to spray-applied, rigid polyurethane foam of medium density intended for use as thermal insulation for both building and non-building applications, whether applied on a building site or in a prefabrication (manufacturing) process. This material is also known as foamed in-situ insulation. The continuous-use temperature is within the range of -60°C to +80°C.

The proponent has demonstrated that the product meets one or all of the following standards (see Table 1 for the performance requirements):

- CAN/ULC-S705.1-01 (including Amendments 1 and 2), "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Material - Specification;"
- CAN/ULC-S705.1-01 (including Amendments 1, 2 and 3), "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Material - Specification;" or
- CAN/ULC-S705.1-15, "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Material Specification."

Spray-applied, rigid polyurethane foam of medium density must be installed by a licensed installer in accordance with the manufacturer's instructions and the following standard:

- CAN/ULC-S705.2-05, "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Application."

For compliance to CAN/ULC-S705.2, users should contact the third-party organization that has been identified by the foam manufacturer as the third party operating the site quality assurance program (SQAP) for the foam product (see product Listing).

Why do we see the Annex to the listings show that the product has been evaluated to several possible editions of CAN/ULC S705.1?

The ANNEX portion of the CCMC listing contains general information about the standards that are included in the National and/or Provincial codes. The ANNEX is the same in every CCMC report.

It does not include information about a specific product and should not be used to determine which version of the standard a product meets.

To confirm which standard a product complies with, refer to the first sentence of the CCMC report under the section titled, "1. Evaluation."