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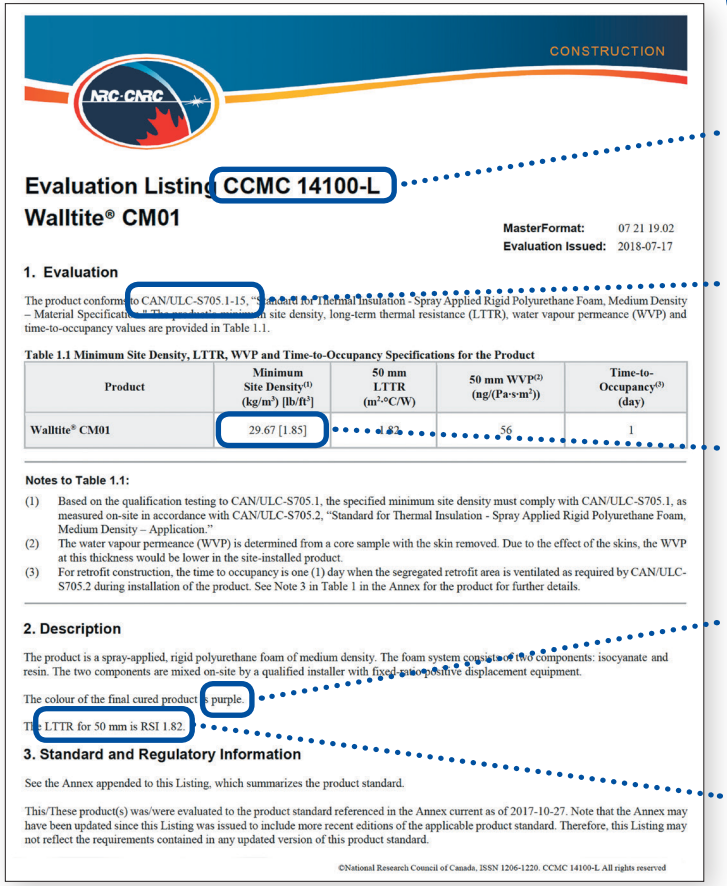
VERIFYING SPRAY FOAM INSTALLATION FOR BUILDING INSPECTORS

SPF Paperwork Review and Checklist



CONSTRUCTION

NRC·CNRC

Evaluation Listing CCMC 14100-L
Walltite® CM01

MasterFormat: 07 21 19.02
Evaluation Issued: 2018-07-17

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/m³) [lb/ft³]	50 mm LTTR (m²·°C/W)	50 mm WVP(2) (ng/(Pa·s·m²))	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.

2. Description

The product is a spray-applied, rigid polyurethane foam of medium density. The foam system consists of two components: isocyanate and resin. The two components are mixed on-site by a qualified installer with fixed-ratio positive displacement equipment.

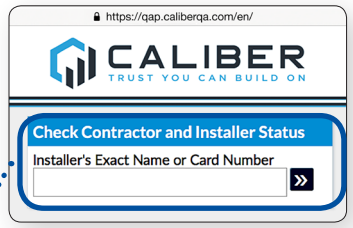
The colour of the final cured product is purple.

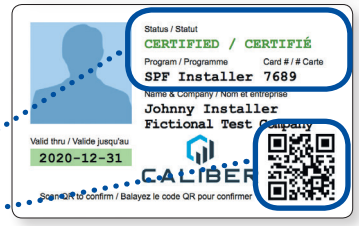
The LTTR for 50 mm is RSI 1.82.

3. Standard and Regulatory Information

See the Annex appended to this Listing, which summarizes the product standard.

This/These product(s) was/were evaluated to the product standard referenced in the Annex current as of 2017-10-27. Note that the Annex may have been updated since this Listing was issued to include more recent editions of the applicable product standard. Therefore, this Listing may not reflect the requirements contained in any updated version of this product standard.





Installer Certification Verification

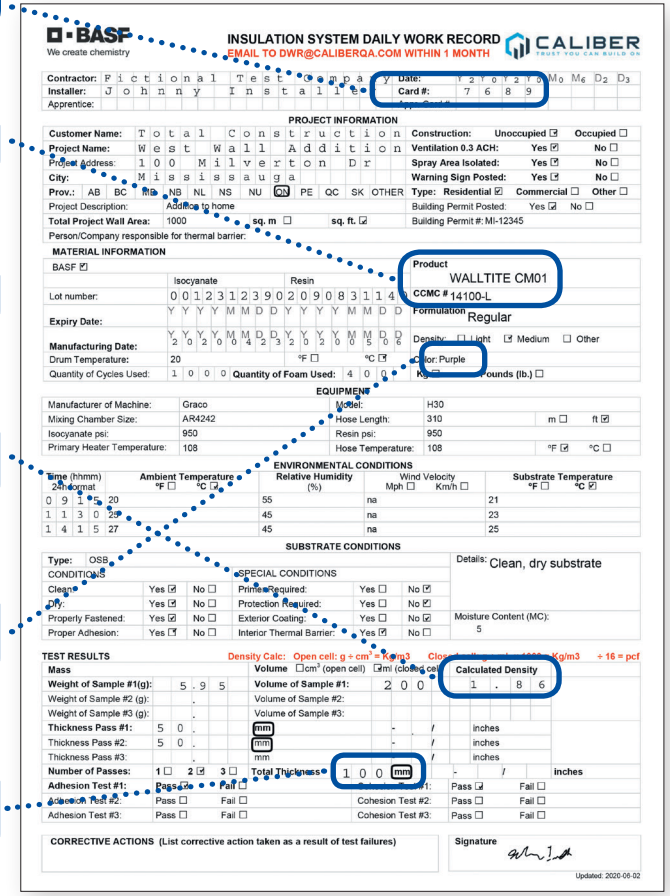
Product and CCMC Number Match

Product meets latest standard

Installed density exceeds minimum site density

Colour of installed product matches listing and DWR

R Value correlates to installed thickness and LTTR



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INSULATION SYSTEM DAILY WORK RECORD
EMAIL TO DWR@CALIBERQA.COM WITHIN 1 MONTH

CALIBER
TRUST YOU CAN BUILD ON

Contractor: Fictional Test Company
Installer: Johnny Installer
Apprentice:
Date: 12 Oct 2020
Card #: 7689

PROJECT INFORMATION

Customer Name:	Total Construction	Construction:	Unoccupied ☑ Occupied ☐
Project Name:	West Wall Addition	Ventilation 0.3 ACH:	Yes ☑ No ☐
Project Address:	100 Milverton Dr	Spray Area Isolated:	Yes ☑ No ☐
City:	Mississauga	Warning Sign Posted:	Yes ☑ No ☐
Prov.:	AB BC MB NB NL NS NU ON PE QC SK OTHER	Type: Residential ☑	Commercial ☐ Other ☐
Project Description:	Addition to home	Building Permit Posted:	Yes ☑ No ☐
Total Project Wall Area:	1000 sq. m ☐ sq. ft. ☑	Building Permit #:	MI-12345
Person/Company responsible for thermal barrier:			

MATERIAL INFORMATION

BASF ☑

	Isocyanate	Resin
Lot number:	00123123902090831144	
Expiry Date:	YYYYMMDD YYYYMMDD	
Manufacturing Date:	YYYYMMDD YYYYMMDD 20200423 20200506	
Drum Temperature:	20 °F ☐ °C ☑	
Quantity of Cycles Used:	100	Quantity of Foam Used: 400 Pounds (lb.) ☐

Product: WALLTITE CM01
CCMC # 14100-L
Formulation: Regular
Density: ☐ Light ☑ Medium ☐ Other
Color: Purple

EQUIPMENT

Manufacturer of Machine:	Graco	Model:	H30
Mixing Chamber Size:	AR4242	Hose Length:	310 m ☐ ft ☑
Isocyanate psi:	950	Resin psi:	950
Primary Heater Temperature:	108	Hose Temperature:	108 °F ☑ °C ☐

ENVIRONMENTAL CONDITIONS

Time (hhmm) 24h format	Ambient Temperature °F ☐ °C ☑	Relative Humidity (%)	Wind Velocity Mph ☐ Km/h ☐	Substrate Temperature °F ☐ °C ☑
0915	20	55	na	21
1130	25	45	na	23
1415	27	45	na	25

SUBSTRATE CONDITIONS

Type: OSB
CONDITIONS: Clean ☑ Yes ☐ No; Dry ☑ Yes ☐ No; Properly Fastened: ☑ Yes ☐ No; Proper Adhesion: ☑ Yes ☐ No
SPECIAL CONDITIONS: Prime Required: ☐ Yes ☑ No; Protection Required: ☐ Yes ☑ No; Exterior Coating: ☐ Yes ☑ No; Interior Thermal Barrier: ☑ Yes ☐ No
Details: Clean, dry substrate
Moisture Content (MC): 5

TEST RESULTS

Density Calc: Open cell: g ÷ cm³ = Kg/m3 Closed cell: Kg/m3 ÷ 16 = pcf

Mass		Volume ☐ cm³ (open cell) ☑ ml (closed cell)	Calculated Density
Weight of Sample #1(g):	595	Volume of Sample #1:	200 — 1.86
Weight of Sample #2 (g):		Volume of Sample #2:	
Weight of Sample #3 (g):		Volume of Sample #3:	
Thickness Pass #1:	50 mm	- /	inches
Thickness Pass #2:	50 mm	- /	inches
Thickness Pass #3:	mm	/	inches
Number of Passes:	1 ☐ 2 ☑ 3 ☐	Total Thickness:	100 mm - / inches
Adhesion Test #1:	Pass ☑ Fail ☐	Cohesion Test #1:	Pass ☑ Fail ☐
Adhesion Test #2:	Pass ☐ Fail ☐	Cohesion Test #2:	Pass ☐ Fail ☐
Adhesion Test #3:	Pass ☐ Fail ☐	Cohesion Test #3:	Pass ☐ Fail ☐

CORRECTIVE ACTIONS (List corrective action taken as a result of test failures)

Signature

Updated: 2020-06-02

Checklist

Request copy of CCMC Listing, Daily Work Records, and Installer's Certification Card be submitted

FROM CCMC LISTING

- ☐ Verify product conforms to CAN/ULC S705.1-15 or referenced standard in provincial building code
- ☐ Verify minimum site density
- ☐ Verify LTTR value at 50 mm
- ☐ Verify colour of cured product

FROM DAILY WORK RECORD

- ☐ Installer' certification number
- ☐ Product installed matches CCMC Listing number and colour
- ☐ Site density exceeds minimum site density listed on CCMC Listing
- ☐ Thickness and installed R value meet local code requirements

FROM INSTALLER'S CERTIFICATION CARD

- ☐ Verify installer is certified for the current year
- ☐ Check up-to-date certification status online through QAP provider identified on certification card