



## Evaluation Listing CCMC 13306-L Therm-O-Light (Type 2) / Therm-O-Spray / Therm-O-Barrier

<b>MasterFormat:</b>	07 21 23.01
<b>Evaluation issued:</b>	2008-04-02
<b>Re-evaluated:</b>	2016-02-04
<b>Revised:</b>	2016-03-01
<b>Re-evaluation due:</b>	2020-04-02

### 1. Evaluation

The products conform to CAN/ULC-S703-09.

### 2. Description

The product is Type 2, cellulose fibre thermal building insulation made from recycled newspapers and treated with fire-retardant additives.

### 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 2011-04-05. 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.

### Listing Holder

Therm-O-Comfort Co. Ltd.  
75 South Edgeware Road  
St. Thomas, ON N5P 2H7

**Telephone:** 519-631-3400

**Fax:** 519-631-9533

**Email:** [inquiry@thermocomfort.ca](mailto:inquiry@thermocomfort.ca)

**Web site:** [www.thermocomfort.ca](http://www.thermocomfort.ca)

### Plant(s)

St. Thomas, ON

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**Date modified:**  
2016-03-09



## Cellulose Fibre Insulation (CFI) For Buildings [Annex]

**MASTERFORMAT:** 07 21 23.01

**Issued:** 2011-04-05

### Scope

These Evaluation Listings apply to treated, wood-based, cellulose fibre intended for use as thermal insulation (cellulose fibre insulation (CFI)) in new and existing buildings. The continuous use temperature range is within  $-60^{\circ}\text{C}$  to  $90^{\circ}\text{C}$ . The proponent has demonstrated that the product meets at least one of the following standards:

- CAN/ULC-S703-01 (including Amendment 1), “Standard for Cellulose Fibre Insulation (CFI) for Buildings”
- CAN/ULC-S703-09, “Standard for Cellulose Fibre Insulation (CFI) for Buildings”

The standard describes two types of CFI. They are defined in CAN/ULC-S703-09 as follows:

- Type 1 is intended for pneumatic application into open areas with slopes up to 4.5:12, or injection application into closed cavities, such as walls, floors, and cathedral ceilings. Type 1 may also be manually applied (poured application).
- Type 2 is intended for spray application with water or liquid adhesive into open areas regardless of slope (e.g., attics), exposed surfaces (e.g., walls or ceilings) and/or into any open cavity (e.g., wall, floor, or ceiling cavities) that may be closed later. This product may also contain internal binders to increase the adhesive/cohesive capabilities of the sprayed fibres in order to reduce settlement and/or ensure it remains in place.

### Standard (2001 and 2009 Versions)

**Table 1. Performance Requirements for Physical Properties of CFI (Type 1 and Type 2)**

Property	Unit	Requirement
<b>Thermal resistivity</b>	$\text{m}\cdot\text{K}/\text{W}$	Minimum 18.5
<b>Open flammability</b>	$\text{W}/\text{cm}^2$	Minimum 0.12
<b>Open flammability permanency</b>	$\text{W}/\text{cm}^2$	Minimum 0.12
<b>Surface burning characteristics<sup>1</sup></b>	FSI	Maximum 150 (Type 1) Maximum 25 (Type 2)
<b>Smoulder resistance</b>	%	Maximum 15
<b>Moisture vapour sorption</b>	%	Maximum 20
<b>Corrosiveness</b>	–	No perforations
<b>Fungi resistance</b>	–	Fungal growth must not exceed that of the comparative item
<b>Separation of chemicals</b>	%	Maximum 1.5
<b>Design density</b>	$\text{kg}/\text{m}^3$	As determined

**Table 2. Additional Requirements for Type 2 Product**

Property	Unit	Requirement
Added water <sup>1</sup>	%	Maximum 20
Design moisture <sup>2</sup>	%	Maximum 20
Settlement – open spaces	%	Minimum 5
Cohesion/adhesion exposed surfaces <sup>2</sup>	–	Minimum 5 times the mass of the material under the test plate

**Notes to Tables 1 and 2:**

1 Requirement in CAN/ULC-S703-01 version only.

2 Requirement in CAN/ULC-S703-09 version only.

**Labelling**

The standard requires that each bag of insulation be identified with the following information:

- manufacturer's name and address;
- trade name of the product;
- generic product name;
- material type and sub-type (i.e., Type 1 (open spaces) and/or Type 2 (closed cavities));
- package mass;
- standard number CAN/ULC-S703;
- day/month/year of manufacture or traceable code number;
- coverage table(s) providing the information described in the appropriate Subsection of the standard; and
- a cautionary note as follows: **“CAUTION: Maintain building, electrical, gas and oil safety code required clearances between the insulation and heat-emitting devices, such as fuel-burning appliances, chimney pipes, ducts and vents to these appliances (at least 50 mm) and recessed light fixtures (at least 75 mm) unless approved for insulation contact.”**

**National Building Code of Canada (NBC)****NBC References**

CAN/ULC-S703-01 is not referenced in the NBC 2010.

CAN/ULC-S703-09 is referenced in Sentence 9.25.2.2.(1) and Table 5.10.1.1. of Division B of the NBC 2010.