
Preface

Evaluation Listings for Cellulose Fibre Insulation

2008-04-11

MasterFormat Section: 07215.1

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 within the temperature range of -60°C to 90°C. The proponent has demonstrated that the product meets at least one of the following standards:

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

The standard classifies the product as either Type 1 or Type 2. Type 1 CFI is a loose-fill product intended for pneumatic application to open areas (with slopes up to 4.5-in-12) or injection into closed cavities. Type 1 may also be manually pour-applied. Type 2 CFI is intended to be pneumatically spray-applied with water to a maximum of 20% added water, to open areas, or into open cavities (regardless of slope) that will be eventually enclosed.

Standard

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

Property	Unit	Requirement
Thermal resistivity	m·K/W	Minimum 18.5
Open flammability	W/cm ²	Minimum 0.12
Open flammability permanency	W/cm ²	Minimum 0.12
Surface burning characteristics	FSI	Maximum 150 (Type 1) Maximum 25 (Type 2)
Smoulder resistance	%	Maximum 15
Moisture vapour sorption	%	Maximum 20
Corrosiveness		No perforations. Mass loss of truss plates shall not exceed that of control by more than 25% in 1 of 3.
Fungi resistance		Fungal growth shall not exceed that of the comparative item.

Table 1. Performance Requirements for Physical Properties of CFI (Type 1 and Type 2) (cont'd)

Property	Unit	Requirement
Separation of chemicals	%	Maximum 1.5
Design Density	kg/m ³	As determined

Table 2. Additional Requirements for Type 2 Product

Property	Unit	Requirement
Added water	%	Maximum 20
Settlement-open spaces		Minimum 5

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 (i.e., Type 1 and/or Type 2);
- package weight;
- standard number CAN/ULC-S703;
- day/month/year of manufacture or traceable code number;
- coverage chart(s) providing the information described in the standard;
- a cautionary note as follows:
"CAUTION: Maintain building, electrical, gas and oil safety code 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

The CAN/ULC-S703-01 standard is referenced in:

- (a) NBC 1995 (including April 2002 Revisions and Errata), Clause 9.25.2.2.(1)(h) and Clause 5.3.1.2.(2)(k); and
- (b) NBC 2005, Clause 9.25.2.2.(1)(e) and Table 5.10.1.1.