



Evaluation Listing CCMC 12117-L Guardian Ultra Fiberglass Blowing Insulation

Evaluation Issued:	1990-04-24
Re-evaluated:	2013-04-10
Re-evaluation due:	2015-06-15

Preface: Masterformat 07 21 23.07, Loose-Fill Mineral-Fibre Thermal Insulation

Preface Issued:	2012-08-31
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Scope

These Evaluation Listings apply to mineral-fibre thermal insulation when used in unconfined spaces with slopes not exceeding 4.5:12. The proponent has demonstrated that the product meets the following standard:

- CAN/ULC-S702-09, “Standard for Mineral Fibre Thermal Insulation for Buildings.”

The standard describes five types of mineral-fibre insulation. These CCMC Evaluation Listings refer only to loose-fill insulation, Types 4 and 5, which are defined as follows:

- Type 4, pouring wool – loose-fill mineral-fibre insulation subdivided into nodules, suitable for manual application or pouring (re-assigned in CAN/ULC-S702-09, Amendment 1);
- Type 5, blowing wool – loose-fill mineral-fibre insulation subdivided into nodules, suitable for manual application by means of pneumatic equipment.

Mineral-fibre thermal insulation shall be installed in accordance with CAN/ULC-S702.2-10 “Mineral Fibre Thermal Insulation for Buildings, Part 2: Installation.”

Standard

Table 1. Physical property requirements of loose-fill mineral-fibre insulation

Test/Property	Units	Requirement
Design density	No unit	≤ the limiting design density (Type 5 only)
Thermal resistivity	(m-k)W	≥ 18.5/m
Surface burning characteristics	No unit	Flame spread rating ≤ 25 Smoke developed classification ≤ 50
Smoulder resistance	%	Mean mass loss ≤ 5, mass loss of each specimen ≤ 10
Corrosiveness	No unit	Specimen corrosion ≤ control specimen
Fungi resistance	No unit	Growth ≤ comparative item

Marking

The standard requires that packaging for the insulation be identified with, as a minimum:

- brand name and the name of the manufacturer or supplier;
- identification of the manufacturing facility location;
- type of insulation and its intended use;
- net contents of the package in kg;
- date of manufacture or shift code;
- thermal resistivity of the product;
- application chart as per standard;
- any additional information required by applicable acts and regulations;
- any necessary user safety information;
- statement that the product complies with the standard;
- a cautionary statement as follows: “**Building, electrical, fire and other applicable codes shall be complied with. All heat-emitting devices, such as fuel-burning appliances, chimneys, pipes, ducts and vents to these appliances shall maintain a minimum distance of 50 mm between these devices and the insulation. Recessed light fixtures, unless designed for the purpose, shall not be installed in insulated ceilings**”; and
- CCMC Listing number.

National Building Code of Canada (NBC)

NBC References

The CAN/ULC-S702-09 standard is referenced in Tables 5.10.1.1. and 9.23.17.2.A. and Clause 9.25.2.2.(1)(d) of Division B of the NBC 2010.

The CAN/ULC-S702.2-10 standard is not referenced in the NBC 2010.

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1. Evaluation

The product conforms to CAN/ULC-S702-09, “Mineral Fibre Thermal Insulation for Buildings.” The declared thermal resistance value is 18.5 (m²·K/W)/m at a design density of 9.5 kg/m³. The product must be installed as outlined in the Preface in unconfined spaces with slopes that do not exceed 4.5:12 according to the following application chart:

Application and Coverage Chart

Thermal Resistance (RSI)	Minimum Thickness (mm)	Minimum Mass per Unit Area (kg/m ²)	Maximum Coverage per 15.4-kg Bag (m ²)	Minimum Number of Bags per 100 m ² of Area
2.1	114	1.1	14.3	7.0
2.8	152	1.4	10.7	9.4
3.5	191	1.8	8.6	11.7
4.2	229	2.2	7.1	14.0
4.9	267	2.5	6.1	16.4
5.6	305	2.9	5.4	18.7
6.3	343	3.2	4.8	21.1
7.0	381	3.6	4.3	23.4
7.7	419	4.0	3.9	25.7
8.4	457	4.3	3.6	28.1
9.1	495	4.7	3.3	30.4
9.8	533	5.0	3.1	32.7
10.5	572	5.4	2.9	35.1

2. Description

The product is a Type 5, loose-fill, glass-fibre thermal building insulation designed for pneumatic application using commercially available blowing equipment.

3. Standard and Regulatory Information

See the [Preface](#) and the standard for explanation.

Listing Holder

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Plant(s)

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