



Part 1 – General

1.1 WORK INCLUDED

- 1.1.1 Provide all labour, materials, equipment and services necessary for, and incidental to, the complete and proper installation of loose-fill attic insulation, specifically cellulose fibre insulation (CFI), to areas indicated on the drawing and described herein.
- 1.1.2 The material and installation shall conform to the applicable building code requirements and the requirements of authorities having jurisdiction.

1.2 QUALITY ASSURANCE

- 1.2.1 Work shall be performed by a firm with expertise in the installation of loose-fill CFI. This firm shall be licensed or otherwise approved by Can-Cell Industries Inc.
- 1.2.2 Before proceeding with the insulation work, approval of the proposed material thicknesses and corresponding thermal resistance values shall be obtained from the architect and/or other applicable authorities.

1.3 RELATED SECTIONS

- 1.3.1 Canadian Construction Materials Centre (CCMC) MasterFormat 07215.1 – Loose-fill Cellulose Insulation

1.4 REFERENCES

- 1.4.1 National Standard: CAN/ULC-S703-01 – *Standard for Cellulose Fibre Insulation (CFI) for Buildings*
- 1.4.2 Can-Cell Industries Inc.: *General Installation Guidelines for Weathershield™ Insulation*
- 1.4.3 National Building Code of Canada 1995 (NBC95)

1.5 SUBMITTALS

- 1.5.1 Manufacturer's Data: Submit Weathershield™'s specifications, including certification as may be required to show material compliance with Contract Documents. MSDS available upon request.
- 1.5.2 Test Data: Independent laboratory test results shall be submitted for all specified performance criteria.

1.6 DELIVERY, STORAGE AND HANDLING

- 1.6.1 Deliver materials to the project in original, unopened packages, fully identified as to trade name, type and other identifying data.
- 1.6.2 Store materials above ground, in a dry location, protected from the weather. Damaged packages found unsuitable for use should be rejected and removed from the project.

1.7 PROJECT CONDITIONS

- 1.7.1 Allow any designated representative of Can-Cell Industries Inc. full access to the site.
- 1.7.2 See *General Installation Guidelines for Weathershield™ Insulation*.

1.8 SEQUENCING / SCHEDULING

- 1.8.1 See Part 3 – Execution
- 1.8.2 The contractor shall cooperate in the coordination and scheduling of insulation work to avoid delays in job progress.





Part 2 – Products

2.1 ACCEPTABLE MANUFACTURERS

The loose-fill cellulose fibre insulation (CFI) material shall be manufactured by:

CAN-CELL INDUSTRIES INC.

Head Office: 14735-124 Avenue, Edmonton, Alberta, Canada T5L 3B2

Phone (780) 447-1255 Fax (780) 447-1034

Other distribution locations:	Can-Cell – Langley, BC	(604) 513-8830
	Can-Cell – Nanaimo, BC	(250) 754-2943
	Can-Cell – Kelowna, BC	(250) 491-9091
	Can-Cell – Prince George, BC	(250) 961-5895
	Can-Cell – Grande Prairie, AB	(780) 512-0988
	Can-Cell – Calgary, AB	(403) 275-4133
	Can-Cell – Saskatoon, SK	(306) 934-0033
	Can-Cell – Regina, SK	(306) 359-1100
	Can-Cell – Winnipeg, MB	(204) 633-5684

2.2 ACCEPTABLE MATERIALS:

Weathershield™ Loose-Fill Insulation – no substitutions

NOTE: This cellulose fibre insulation (CFI) product does not contain formaldehyde, asbestos or any form of mineral or glass fibre.

2.2.1 Materials shall be applied to conform to the drawings, specifications and the following CAN/ULC-S703-01 test criteria:

2.2.1.1 Open-Flammability: When tested in accordance with Subsection 6.4.1, the material shall have a *critical radiant flux* of 0.12 W/cm² or greater.

2.2.1.2 Open-Flammability Permanency: When tested in accordance with Subsection 6.4.2, the aged and conditioned material shall have a *critical radiant flux* of 0.12 W/cm² or greater.

2.2.1.3 Surface Burning Characteristics: When tested in accordance with CAN/ULC-S102.2, the material shall exhibit a flame-spread classification of 150 or less. When tested in accordance with CAN/ULC-S102, the material shall exhibit a flame-spread classification of 25 or less.

2.2.1.4 Smoulder Resistance: When tested in accordance with Subsection 6.4.4, the material shall exhibit a mass loss of 15% or less.

2.2.1.5 Moisture Vapour Sorption: When tested in accordance with Subsection 6.4.5, the material shall exhibit a moisture gain of no more than 20% by weight.

2.2.1.6 Corrosiveness: When tested in accordance with Subsection 6.4.6, the material shall exhibit prescribed criteria for aluminum, copper, steel and truss plates.

2.2.1.7 Fungi Resistance: When tested in accordance with Subsection 6.4.7, the material shall exhibit no more growth than the comparative item.

2.2.1.8 Separation of Chemicals: When tested in accordance with Subsection 6.4.8, the material shall exhibit separation of non-cellulosic components of no more than 1.5%.

2.2.1.9 Thermal Resistivity*: When tested in accordance with Subsection 6.4.9, the material shall exhibit a thermal resistivity of not less than 18.5 (m.K)/W. Actual value is used to provide coverage information for specific thermal resistance levels.

2.2.1.10 Density*: When tested in accordance with Subsection 6.4.10, the material shall exhibit the same material density for coverage as declared in manufacturer's literature and packaging.

* PERFORMANCE DATA:

Thermal Resistivity (open attics) = 25.8 (m.K)/W (R-3.72/inch) @ Coverage Density = 22.91 kg/m³ (1.43 lbs./ft³)

Thermal Resistivity (cavities) = 25.8 (M.K)/W (R-3.72/inch) @ Coverage Density = 48.06 kg/m³ (3.00 lbs./ft³)





Part 3 – Execution

3.1 EXAMINATION

- 3.1.1 Examine all surfaces and conditions to which the Work of this Section is to be applied. Ensure they are adequate to provide a satisfactory application of the specified product. Report any deficiencies to the Superintendent.
- 3.1.2 Ensure that all framing, anchors, blocking and backing, mechanical and electrical work is installed, tested and approved by consultant and authorities having jurisdiction.

3.2 PREPARATION

- 3.2.1 Preparation shall be as recommended in *General Installation Guidelines for Weathershield™ Insulation*.
- 3.2.2 Install vapour barrier to all warm sides of perimeter exterior walls and roof spaces, make all joints tightly butted on studs, furring or framing. Fasten securely using adhesives or 6-mm (¼") galvanized staples. Lap minimum is 100 mm (4") and sealed with sheathing tape.

3.3 APPLICATION

- 3.3.1 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.
- 3.3.2 Application shall be as recommended in *General Installation Guidelines for Weathershield™ Insulation*.

3.4 REPAIRING AND CLEANING

- 3.4.1 All repair to insulated areas due to damage by other trades shall be performed under this Section and paid for by the trade responsible for the damage.
- 3.4.2 After the completion of the work in this Section, equipment shall be removed and all areas not to be insulated shall be cleaned to the extent previously agreed to by the applicator and general contractor.

