

THERM·O·LIGHT

TYPE 1 PRODUCT DATA

1. PRODUCT DESCRIPTION

Therm-O-Light (Type 1) is a loose-fill thermal and acoustic cellulose fibre insulation (CFI) manufactured from specially selected grades of recycled paper and paperboard products.

Therm-O-Light can be installed manually by hand (i.e. hand pouring) or through the use of pneumatic blowing equipment.



Therm-O-Light can be used in new or existing buildings and is suitable for use in both above and below grade applications. It can be applied to any open horizontal or sloped surfaces with a pitch up to 4.5 in 12, as well as any enclosed space such as walls, floors, flat roofs and cathedral ceilings.

Therm-O-Light has a minimum recycled content of 85% consisting of pre and post consumer recycled paper and paperboard products. It is treated with a special blend of non-corrosive borate and sulphate fire retardant additives, which also protects the product and adjacent construction materials against mould growth, wood decay and insect damage.

2. TECHNICAL INFORMATION

Standards & Guides

Therm-O-Light is manufactured in accordance with the following:

CAN/ULC-S703-09 "Standard for Cellulose Fibre Insulation for Buildings"

CCMC Technical Guide 07215.1 "Cellulose Fibre Insulation For Buildings".

ISO 9001:2015 Certified Quality Management System

Product Data

General

Flame Spread Rating (CAN/ULC-S102.2)	< 150
Open Flammability (CAN/ULC-S703)	>0.120 W/cm ²

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Open Flammability Permanency (ULC-S703)	>0.120 W/cm ²
Moisture Vapour Sorption (CAN/ULC-S703)	< 20%
Corrosiveness (CAN/ULC-S703)	Passed
Fungal Resistance (ASTM 1338)	Passed
Smoulder Resistance (CAN/ULC-S130)	< 15%
Separation of Chemicals (CAN/ULC-S703)	< 1.5%

Open Spaces (e.g. Attics)

Thermal Resistivity (ASTM C518)	RSI = 25.9(m ² • K/W)/m
Design Density (CAN/ULC-S703)	R = 3.74(hr•ft ² •°F/Btu)/in 24.8 kg/m ³ (1.55 lb/ft ³)

Closed Cavities (e.g. Walls)

Thermal Resistivity (ASTM C518)	RSI = 26.6(m ² • K/W)/m
Design Density (CAN/ULC-S703)	R = 3.84(hr•ft ² •°F/Btu)/in 48.0 kg/m ³ (3.00 lb/ft ³)

Acoustical Properties

Sound Transmission Class (ASTM E336) Consult Manufacturer

Construction Specifications

Both CMS and NMS Construction Specifications are available for Therm-O-Light in accordance with the MasterFormat™ 2018.

Registrations and Listings

CCMC Listing # 08774-L
ISO Registration - The Registrar Company (TRC 00837)

Applicable Codes

When properly installed, Therm-O-Light meets or exceeds all thermal insulation material and installation requirements set out in all Canadian National and Provincial Energy and Building Codes.

Other Properties

Airflow Resistivity Comparison (ASTM C522)

Blown Cellulose (90mm @ 49 kg/m ³)	- 33,000 (mks rayls/m)
Fibreglass Batt (89mm @ 12kg/m ³)	- 4,800 (mks rayls/m)

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3. INSTALLATION

In order to ensure proper thermal performance, Therm-O-Light must be installed in accordance with Therm-O-Comfort's most recent installation instruction.

Applicable Guides and Standards

CIMAC - General Installation Guidelines for Cellulose Fibre Insulation, Second Edition May 2009.

ASTM C1015-17- Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation.

4. WARRANTY

Therm-O-Comfort warrants that Therm-O-Light is manufactured to meet or exceed published specifications and retain its thermal performance for the normal life of the building. Please refer to limited product warranty certificate for more details. This warranty does not cover the installation of the product. Please contact your Applicator or Contractor for more details on their installation warranty.

5. PRECAUTIONS

Health & Safety: Therm-O-Light is safe to handle and is a non-irritating alternative to man-made mineral fibre products. However, adequate precautions must be taken when installing or handling any loose-fill product.

Ensure a NIOSH N95 approved dust mask is worn during the handling and installation process, as well as appropriate eye and skin protection (i.e. work clothes, gloves and safety glasses).

Heat Emitting Devices: Therm-O-Light, as well as all other insulation products, should not be placed in direct contact with heat sources such as chimney flues, electric motors or light fixtures.

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.

