



CL4FIRE Fire Protection Thermal Insulation LEED Product Information

As a Canadian manufacturer of fire safety products, CL4 Inc. strives to stringently meet fire safety requirements of its products and systems and also to display appropriate concern for the health and safety needs of our customers and the environment. Our products and systems are streamlined to reduce raw material usage, limit transportation resources, reduce waste and recycle unused product and packaging.

The following documentation is offered as a roadmap to product performance when commercial construction is using the LEED accreditation system.

MATERIALS & RESOURCES

Table 1: Possible LEED Points under Materials & Resources

LEED Points	LEED Point Reference for Canada
1	MR Credit 2.1: Construction Waste Management, Divert 50% from Landfill
1	MR Credit 2.2: Construction Waste Management, Divert 75% from Landfill
1	MR Credit 4.1: Recycled Content 7.5%
1	MR Credit 4.2: Recycled Content 15%
1	MR Credit 5.1: Regional Materials, 10% Extracted, Manufactured Regionally
1	MR Credit 5.2: Regional Materials, 20% Extracted, Manufactured Regionally

MR Credit 2.1 & 2.2 Construction Waste Management Divert from Landfill

CL4FIRE Insulation	Return to manufacturer through distributor for use in manufacturing other products.
CL4FIRE Insulation	Intertek Testing Laboratories listed for use in through penetration firestop applications in place of mineral wool insulation.
Carton / Box	Cardboard can be recycled.
Wooden Pallet	Available for reuse or recycling.
Stretch Wrap	Plastic can be recycled.

MR Credit 4.1 & 4.2 Recycled Content

- 0% (by weight) Post Consumer Recycled Content
- 20% (by weight) Post Industrial Recycled Content

MR Credit 5.1 & 5.2 Regional Materials

CL4FIRE manufacturing location is Montreal, Quebec, Canada

Sites located within an 800 km road distance or 1900 km rail distance can earn LEED points under MR Credit Items 5.1 & 5.2



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INDOOR AIR QUALITY

LEED Points	LEED Point Reference for Canada
1	EQ Credit 3.2: Construction IAQ Management Plan: Before Occupancy
1	EQ Credit 4.2: Low Emitting Materials, Adhesives & Sealants

EQ Credit 3.2: Indoor Air Quality

- CL4FIRE Fire Protection Thermal Insulation is free from volatile organic compounds (VOC's), 4-Phenylcyclohexane, and formaldehyde.
- CL4FIRE is totally encapsulated and designed to contain particulate from entering the construction environment

EQ Credit 4.1: Low Emitting Materials, Adhesives & Sealants

- CL4FIRE Fire Protection Thermal Insulation is free from volatile organic compounds VOC's

Innovation & Design Process

LEED Points	LEED Point Reference for Canada
4 (possible)	ID Credit 1-1.4 : Innovation In Design

ID Credit 1-1.4: Innovation in Design

The CL4FIRE Blue Product is proven to offer superior thermal delay characteristics & requires less material than lower density products. Our new single layer system for ventilation air ductwork requires significantly less material than previous double layer systems. Waste materials are expected to be half of previous requirements for this system and offcuts are recyclable into firestops and alternative products (see MR Credit 2.1 & 2.2).

The CL4FIRE fire protection thermal insulation system does not require mudding of joints and sanding as would be experienced with gypsum drywall fire protection methods for ductwork. Hence, dust in the construction environment should be significantly reduced.