

# CL4FIRE CODE 96™ Grease Duct Insulation System

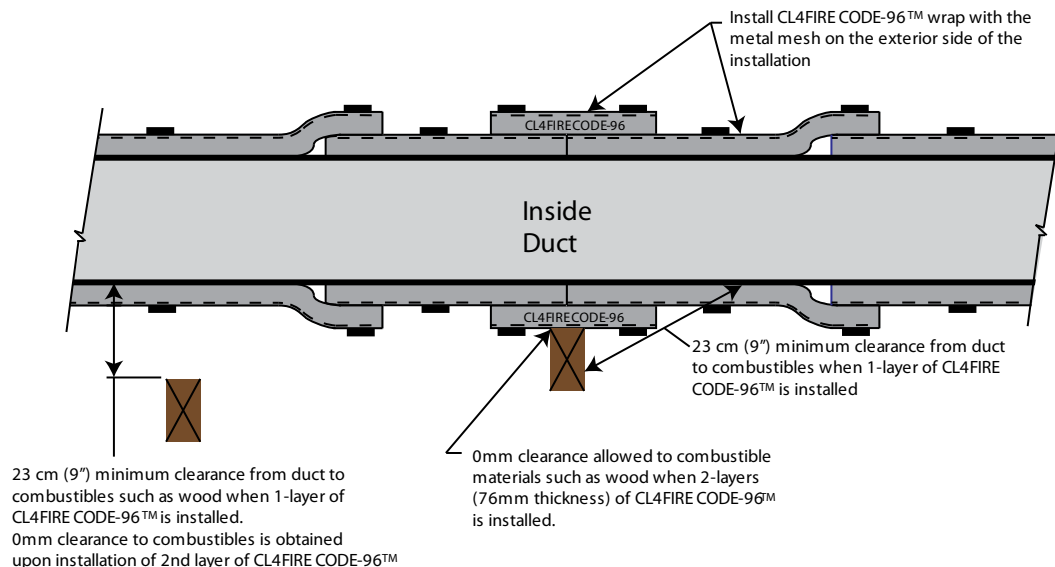


**Evaluated by the CCMC as the only fire protection ductwrap product  
verified to meet Canadian Building Code Requirements**

NOTICE: FIRE TESTING STANDARDS REQUIRE THE FIREWRAP TO BE INSTALLED CONTINUOUSLY  
ALONG THE DUCTWORK IN THE SAME MANNER AS A GYPSUM SHAFT  
INTERMITTENT INSTALLATION IS NOT ALLOWED.

Rated for 229mm (9") clearance from duct to combustibles using 1-layer of CL4FIRE Code-96™  
Rated for 0mm clearance from outside of insulation to combustibles using 1-layer of CL4FIRE Red or  
CL4FIRE Code-96™ on the inside layer and 1-layer of CL4FIRE Code-96™ on the exterior layer for a  
total of 76mm (3") thickness overall.

**Exterior steel wire mesh installed beneath CL4FIRE Code-96 jacketing. It is a mandated  
requirement and outlined by the Canadian Construction Materials Centre (CCMC) and is  
the only product allowed to meet protection, integrity, and movement criteria of  
NFPA-96 for both normal building temperatures and hot fire exposures.**



## Product:

- Single 38mm (1 ½") thick layer installation of CL4FIRE Code-96 wrap allows for minimum 23cm (9") clearance from ductwork to combustibles. 76mm (3") overlaps at all single layer installation joints installed as outlined in QAI listed system F-401-1-1 for up to a 2-hour fire rating.
- Two 38mm (1 ½") layers of insulation are required for 0mm clearance with the 1<sup>st</sup> layer using either CL4FIRE -Red or CL4FIRE Code 96™ with tightly butted seams and the outer layer with CL4FIRE Code 96™ installed with tightly butted seams staggered a minimum of 152mm (6") from the inner layer seams. Exterior layer of CL4FIRE Code-96 wrap must exceed the size of the interior layer only if CL4FIRE Red is installed on the interior layer. Butted seams on the 1<sup>st</sup> layer of wrap must always be covered with the 2<sup>nd</sup> layer which is required to overlap by a minimum of 76mm (3").

**CL4FIRE CODE-96™ IS A PATENT PENDING PRODUCT OF CL4 INC**

**Note:** Wire mesh installed under one side of CL4FIRE Code-96 foil must always be to the exterior of the outside layer of insulation away from the ductwork

Exterior steel wire mesh is required to meet protection, integrity, and movement criteria of NFPA-96 for both normal temperatures and hot fire exposures.

CAN/ULC S144 "Standard Method of Fire Resistance Test -Grease Duct Assemblies"

Fire Resistance Ratings of up to 2-hours for Stability, Integrity & Insulation

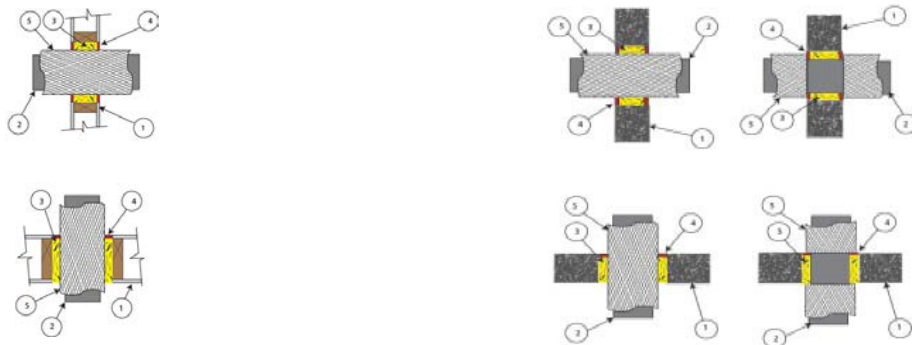
**Product:** CL4FIRE CODE -96™ requires 1-layer 38mm thickness for max 23cm (9") clearance from ductwork or 2-layers for an overall thickness of 76mm (3") thick for 0mm clearance to combustible materials.

CL4FIRE 'CODE-96™' product requires metal mesh to be installed on the exterior side of the installation.

Single layer installation allows for max 23cm (9") clearance from ductwork to be installed as outlined in QAI listed system F-405-1-1 per 2-hour listed system installation requirements. Install a 2nd layer of CL4FIRE CODE-96™ product to reduce clearance requirements to 0mm where required as outlined in detail above. Tightly butted seams are allowed only on the exterior 2nd layer of insulation or on the 1st layer when covered by a 2nd layer of CL4FIRE CODE-96™ product. Seams must be staggered a minimum of 150mm between layers.

Install access panels as outlined in QAI listed system F405-1-4. Reduced clearance access panel requires only 2-layers of CL4FIRE CODE-96™ insulation as per manufacturer's instructions.

**CL4FIRE Grease Duct 1 or 2-hour fire rated wall or floor penetrations:**



### Gypsum/Wood Firestop Assemblies

### Concrete Firestop Assemblies

#### 1. Floor or Wall Assemblies:

Code conforming 1 or 2-hour floor or wall assembly. Minimum 114mm (4 ½") thick lightweight or normal weight concrete, 204mm (8") thick concrete block (filled or unfilled), 1- or 2-hour gypsum wall assembly with framed opening, 1- or 2-hour gypsum ceiling / wood floor assembly with framed opening.

#### 2. Penetrating Item:

Rectangular or Round #16 gauge or thicker steel grease duct (as described in Maximum Size of Grease Duct System)

#### 3. Wall Firestop Insulation:

Minimum 102mm (4") thickness of CL4FIRE fire protection thermal insulation, or mineral wool insulation tightly compressed into concrete opening, recessed 6mm (¼") from the top and flush

with the bottom of a gypsum ceiling / wood floor assembly, or recessed 6mm (¼") from both sides of a concrete or framed gypsum wall assembly.

#### **4. Firestop Sealant:**

Firestop Sealant installed a minimum of 6mm (¼") deep flush with the top surface of a floor assembly or both sides of a wall assembly. Installation can consist of one of the approved caulking products:

##### **Approved Firestop Sealants:**

- 3M Fire Barrier 1000 Silicone
- AD Fire Barrier Silicone
- Passive Fire Protection Partners 4800DW Sealant
- STi SIL300 Silicone Firestop Sealant
- STi SpecSeal® Series SSS Latex Intumescent Sealant
- STi SpecSeal® Series LCI Intumescent Sealant

Note: Equivalent sealants are acceptable if they are tested and listed to CAN/ULC S115

#### **5. Duct Insulation:**

##### **Gypsum/wood Assemblies:**

Duct must be wrapped with CL4Fire insulation entirely through gypsum/wood floor or wall openings.

##### **Concrete Assemblies:**

Ducts may be wrapped with CL4FIRE insulation entirely through the concrete floor or wall openings before firestopping or abut to both sides of the firestopped floor or wall assembly.