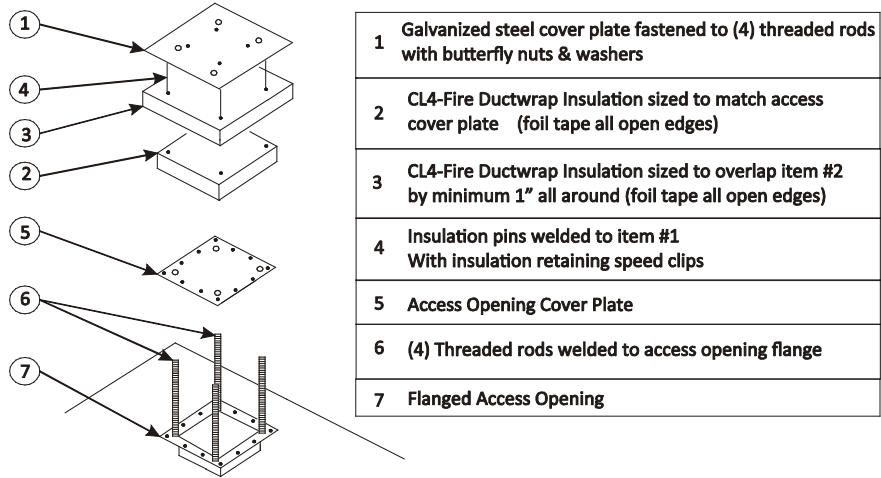
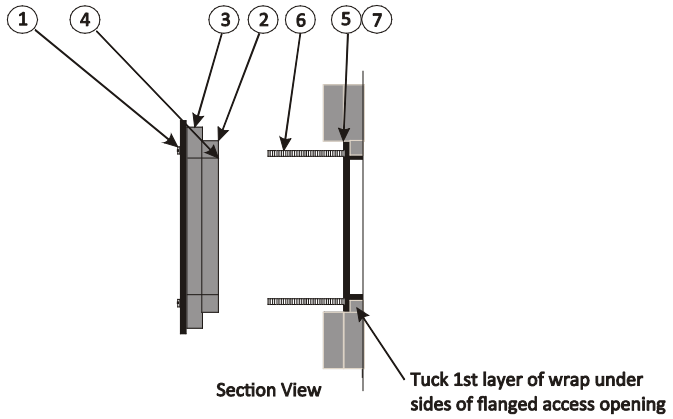


See QAI Listed CL4FIRE Grease Duct System Number: 405-1-4

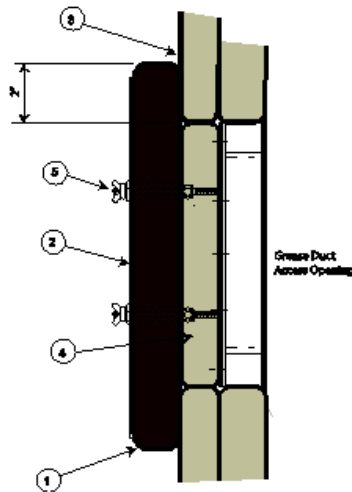
Field Fabricated Access Door Installation Details:



1	Galvanized steel cover plate fastened to (4) threaded rods with butterfly nuts & washers
2	CL4-Fire Ductwrap Insulation sized to match access cover plate (foil tape all open edges)
3	CL4-Fire Ductwrap Insulation sized to overlap item #2 by minimum 1" all around (foil tape all open edges)
4	Insulation pins welded to item #1 With insulation retaining speed clips
5	Access Opening Cover Plate
6	(4) Threaded rods welded to access opening flange
7	Flanged Access Opening



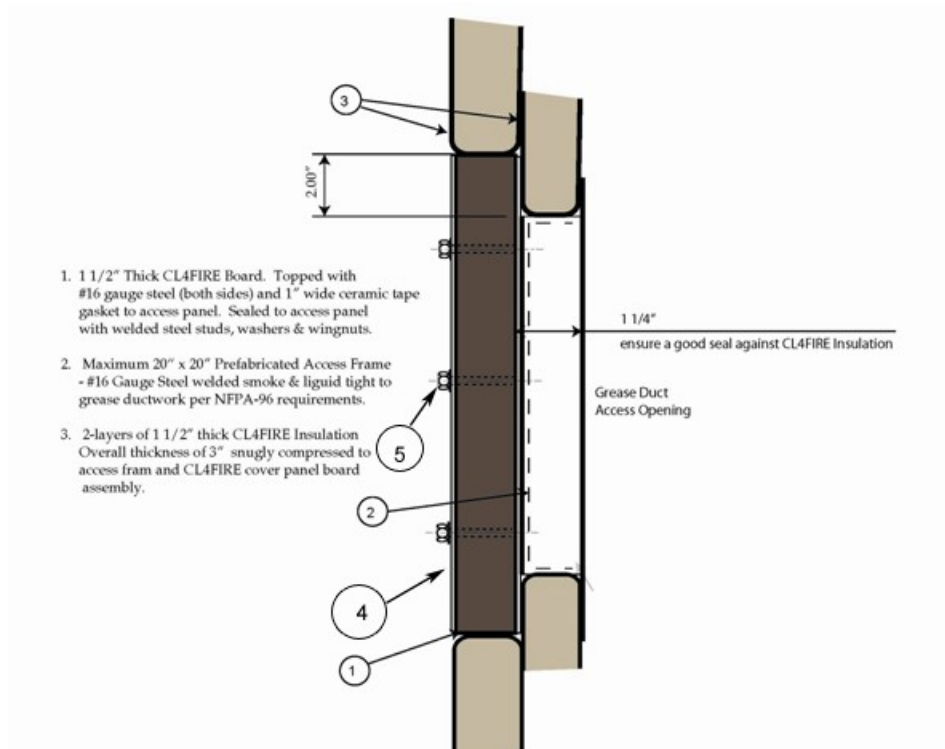
Prefabricated Access Panel Detail #1



For installation over a standard NFPA-96 installed grease duct access door assembly or alternately can be installed over a ventilation air duct access door assembly.

1. Square, Rectangular, or Round *CL4FIRE Access panel cover 1 1/2" (38mm) thick extending a minimum of 2" (50mm) over CL4FIRE insulation in all directions and snugly installed over *CL4FIRE Fire Rated Thermal Insulation as per manufacturer's instructions.
2. Install minimum #16 gauge steel plate over access panel cover item #1.
3. *CL4FIRE Fire Rated Thermal Insulation installed to closely surround the access panel or frame.
4. Fabricate a piece of CL4FIRE insulation 1/2" larger than the size of the access panel cover plate and compress into the opening.
5. *CL4FIRE Panel is attached by minimum of (4) equally spaced 1/4" (6mm) or larger threaded rods or steel threaded bolts welded to the access panel cover plate. *CL4FIRE rated panel and #16 gauge cover plate can also be attached using min. 1/4" (6mm) cover plate retaining bolts extended with threaded couplings. Retain the* CL4FIRE panel and #16 gauge steel plate using bolts or wing nuts.

Prefabricated Access Panel Detail #2



For installation over a standard NFPA-96 installed grease duct access door assembly or alternately can be installed over a ventilation air duct access door assembly.

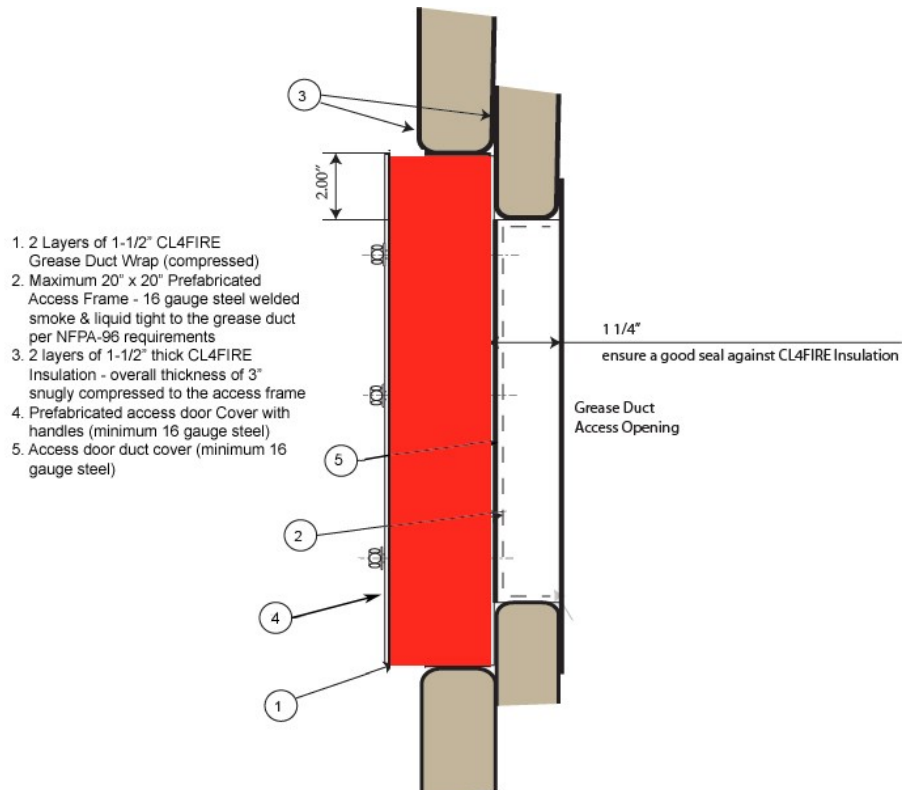
1. Square, Rectangular, or Round Ceramic Fiber Board - 16 PCF insulation - 1 1/2" (38mm) thick extending a minimum of 2" (50mm) over CL4FIRE insulation in all directions and snugly installed over CL4FIRE Fire Rated Thermal Insulation.

Fiber Board:

Thickness: 1-1/2"
 Density: 16 pcf \pm 2 pcf
 Material: Soluble or Ceramic Fiber

1. Access Door Frame – 16 gauge steel welded (Maximum size of 20" x 20" or 400 in²)
 2. CL4FIRE Fire Rated Thermal Insulation installed to closely surround the access panel or frame.
 3. Install minimum #16 gauge steel plate over access panel cover item #1.
 4. CL4FIRE Panel is attached by minimum of (4) equally spaced 1/4" (6mm) or larger threaded rods or steel threaded bolts welded to the access panel cover plate. CL4FIRE rated panel and #16 gauge cover plate can also be attached using min. 1/4" (6mm) cover plate retaining bolts extended with threaded couplings.
- Retain the CL4FIRE panel and #16 gauge steel plate using bolts or wing nuts.

Prefabricated Access Panel Detail #3



For installation over a standard NFPA-96 installed grease duct access door assembly or alternately can be installed over a ventilation air duct access door assembly.

1. Square, Rectangular, or Round - CL4FIRE Ceramic Fiber Batt Insulation - Two layers - 1 1/2" (38mm) thick extending a minimum of 2" (50mm) over CL4FIRE insulation in all directions and snugly installed over CL4FIRE Fire Rated Thermal Insulation.
 2. Access Door Frame – 16 gauge steel welded (Maximum size of 20" x 20" or 400 in²)
 3. CL4FIRE Fire Rated Thermal Insulation installed to closely surround the access panel or frame.
 4. Install minimum #16 gauge steel plate over access panel cover item #1.
 5. CL4FIRE Panel is attached by minimum of (4) equally spaced 1/4" (6mm) or larger threaded rods or steel threaded bolts welded to the access panel cover plate. CL4FIRE rated panel and #16 gauge cover plate can also be attached using min. 1/4" (6mm) cover plate retaining bolts extended with threaded couplings.
- Retain the CL4FIRE panel and #16 gauge steel plate using bolts or wing nuts. Maximize the compression on the CL4FIRE insulation.