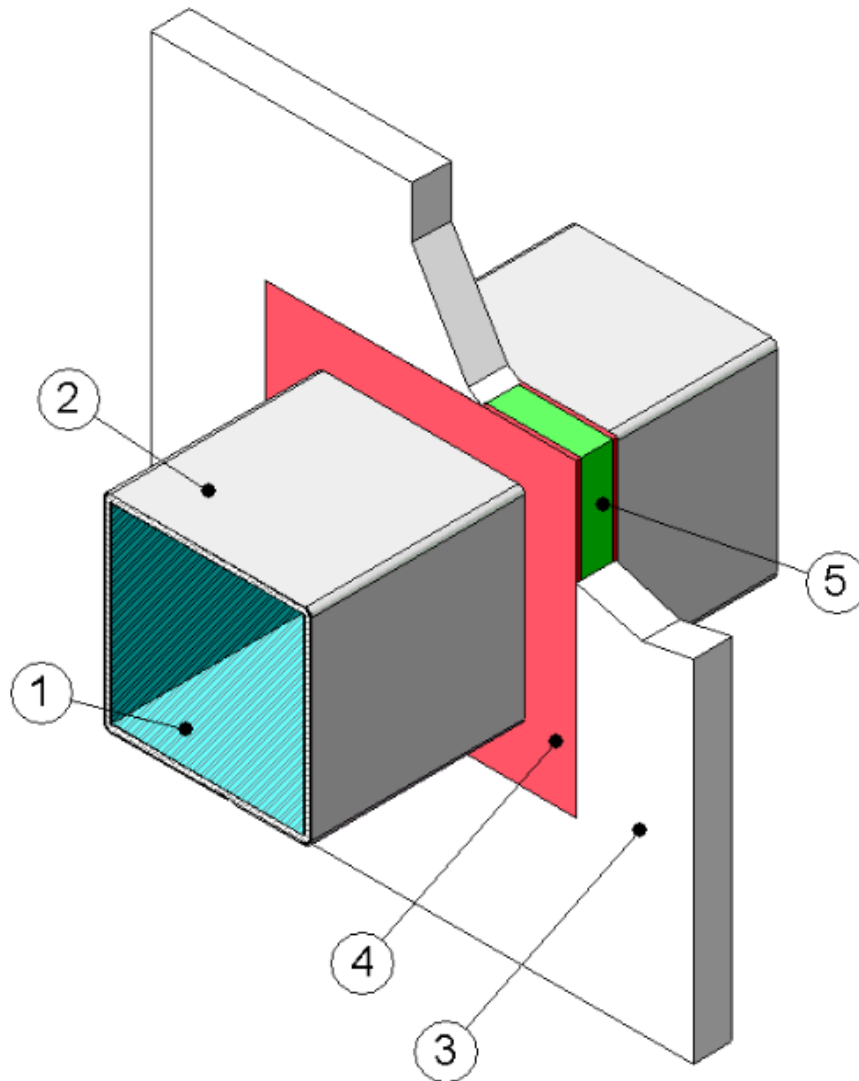

Design No. UNI/FRD 120-13
(Formerly OPL Design No. FS 591 W)
FIRE PENETRATION SEAL (GREASE DUCT)
Unifrax I LLC
FyreWrap® Duct Insulations
ASTM E 814
T-Rating - 2 hr
F-Rating - 2 hr



1. **PENETRATING ITEM:** A liquid-tight duct system constructed of minimum 16 GA (0.028 in.) sheet steel with maximum 2500-square inch area and maximum 50-inch width (maximum dimensions 50 x 50-inch) and using only insulation (Item 2) as detailed in Intertek Design Listings.

2. **CERTIFIED MANUFACTURER:** Unifrax I LLC
CERTIFIED PRODUCT: Insulation Blanket
MODEL: FyreWrap® Elite™ 1.5 Duct Insulation (nominal 1-1/2-inch thick, 6 pcf)
MODEL: FyreWrap® EZ 1.5 Duct Insulation (nominal 1-1/2-inch thick, 6 pcf)

MODEL: FyreWrap® 1.5 Duct Insulation
(nominal 1-1/2-inch thick, 8 pcf)

MODEL: FyreWrap® MAX 2.0 Duct
Insulation (nominal 2-inch thick, 8 pcf)

INSULATION: Use nominal 1-1/2-inch
thick, 6-pcf; 1-1/2-inch thick, 8-pcf; or nom.
2-inch thick, 8pcf fibrous insulation blanket
made of soluble amorphous wool fibers or
calcium magnesium silica fibers. Use one
layer of insulation blanket that is fully
encapsulated or single faced with foil-
scrim-metalized polyester facing.

3. WALL ASSEMBLY: The two-hour fire-
rated wall assembly consists of min. 6-1/8
in. thick normal weight (100-150 pcf)
reinforced concrete or concrete masonry
unit (CMU) blocks. Create an opening in
the wall assembly having a maximum
3163-square inch cross sectional area and
a maximum dimension of 57-1/2-inches.
Position the penetration assembly (Item 1)
concentrically or eccentrically in the
opening so that the annular space ranges
from minimum 3/4-inch width on one side
to maximum 3-inch width on the other
side.

4. CERTIFIED MANUFACTURER: Tremco,
Inc

CERTIFIED PRODUCT: Firestopping
Sealant

MODEL: Tremco Fyre-Sil S/L

MODEL: Tremco Fyre-Sil Gun Grade

FILL, VOID OR CAVITY MATERIAL:
Apply minimum 3/8-inch depth of silicone
sealant fill material into the recess in the
packing material (Item 5). Overlap the fill

material nominally 1/2-inch onto the wall
assembly (Item 3) and the insulation (Item
2).

5. CERTIFIED MANUFACTURER: Unifrax I
LLC

CERTIFIED PRODUCT: Insulation
Blanket

MODEL: FyreWrap® Elite™ 1.5 Duct
Insulation (6 pcf)

MODEL: FyreWrap® EZ 1.5 Duct
Insulation (6 pcf)

MODEL: FyreWrap® 1.5 Duct Insulation (8
pcf)

MODEL: FyreWrap® MAX 2.0 Duct
Insulation (8 pcf)

PACKING MATERIAL: Use un-faced,
fibrous, insulation, blanket made of soluble
amorphous, wool fibers, or calcium
magnesium silica fibers. Compress the
packing material 25% and insert into the
annular space around the penetrating item
(Item 1), filling the annular space. Recess
the surface of packing material a minimum
3/8 inch deep from the both surfaces of
the wall assembly (Item 3) to
accommodate the fill void or cavity
material (Item 4).

OPTIONAL PACKING MATERIAL – As an
option, substitute for un-faced, fibrous,
insulation blanket made of soluble
amorphous, wool fibers, or calcium
magnesium silica fibers packing material
only mineral wool indicated as certified
and bearing the Intertek mark having a
minimum 4-pcf density, 4-inch thickness
compressed to 25%.