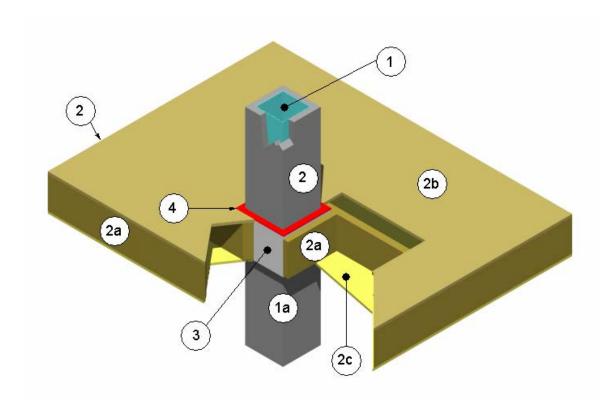
Design No. UNI/PV 60-01

Unifrax Corporation
FyreWrap® EZ 1.5 Duct Insulation
ASTM E 814-06
T Rating – 1 hr

F-Rating – 1 hr



- PENETRATING ITEM Use a rectangular steel duct constructed of minimum 26 GA sheet steel with maximum area of 64 square inches and maximum dimension of 8 inches (maximum rectangular dimensions: 8 x 8 inches).
 - a. CERTÍFIED MANUFACTURER:
 Unifrax Corporation
 CERTIFIED PRODUCT:
 FyreWrap® EZ
 MODEL: 1.5 Duct Insulation
 Protect penetrating item with one
 layer of Unifrax FyreWrap® EZ
 1.5 Duct Insulation applied with a
 minimum 3-inch overlap onto the
 preceding piece at the joints and
 secured to the duct using
 minimum 1/2-inch wide by 0.015inch thick carbon steel banding

spaced 10-1/2 inches on center. Longitudinal overlaps can occur within the opening but circumferential overlaps cannot occur within the opening through the floor assembly (Item 2). One circumferential overlap must be flush with the bottom of the floor assembly (Item 2) and bottom of packing material (Item 3).

- FLOOR ASSEMBLY Install penetrating item (Item 1) through a framed hole created in an ASTM E 119 (UL 263 or NFPA 251) one-hour fire-rated floor assembly having the following components as part of its construction:
 - a. Minimum 2 x 10 wood joists spaced a maximum 16 inches on

Date Created: March 10, 2008 Project No: 3139226SAT006



- center except at the position of the penetrating item where the juxtaposed joists are spaced a maximum 15-1/2 inches on center with a maximum distance between joist faces of 14-inches.
- b. Minimum ¾-inch thick plywood attached to the top of wood joists (Item 2a).
- c. Minimum one layer of 5/8-inch thick, Type X, gypsum wallboard attached to the bottom of wood joists (Item 2a).
- d. Create an opening through the floor assembly (Item 2) to accommodate the protected penetrating item (Item 1) and the conditions of Item 2e with maximum area of 196 square inches and maximum dimension inches (maximum rectangular dimensions: 14 x 14 inches). When the hole penetrates wood joists the (Item 2a) reinforcement additional is required to maintain the floor assembly's (Item 2) strength at that location.
- e. Position the penetrating item (Item 1) concentrically in the opening (Item 2d) so that the annular space is a maximum 1-1/2 inches on the sides. Insulation on penetrating item (Item 1) cannot contact sides of floor assembly (Item 2) around opening (Item 2d).

3. CERTIFIED MANUFACTURER: Unifrax Corporation CERTIFIED PRODUCT: FyreWrap®

MODEL: 1.5 Duct Insulation

PACKING MATERIAL - Fill the annular space between the penetrating item (Item 1) and floor assembly (Item 2) with scrap Unifrax FyreWrap® EZ 1.5 Duct Insulation without its foil scrim. Cut the packing material into strips. Compress width of packing material installed into annular space a minimum of 33%. Insert packing material into the opening (Item 2d) to completely fill the entire annular space and recess the top surface of packing material a minimum 1/4-inch from the top surface of the floor assembly (Item 2), to accommodate the fill, void or cavity material (Item 4).

4. LISTED MANUFACTURER: Hilti Corporation

LISTED PRODUCT: FS-ONE MODEL: Intumescent Firestop Sealant

FILL, VOID, AND CAVITY MATERIAL – Apply a minimum 1/4-inch depth of sealant over the recess created by the packing material (Item 3). Level the sealant flush with the top of the floor assembly (Item1).

Date Created: March 10, 2008 Project No: 3139226SAT006

