

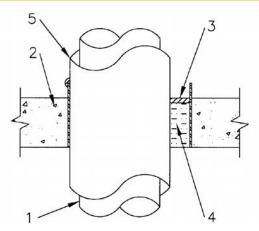
## Grabber Construction Products, Inc. Design No. JWA/PH 120-02

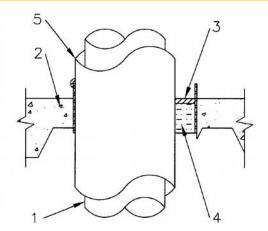
## Horizontal Floor/Ceiling Assembly, Pipe Insulation Through Penetrations, Single Penetrations Only GrabberGard EFC and GrabberGard IFC

Test Standards: ASTM E814, UL 1479, ULC S115

Test Furnace Internal Positive Pressure Differential – 2.5 Pa (0.01 in. of water) Minimum Rating: 2 Hour

Penetrating	Max	Annular	Fire	Fire/Hose	Temp Rating
Material & Size	Hole Size	Space	"F" Rating	"FH" Rating	"FTH" Rating
Steel and Cast Iron Pipe to 8" Sch 10 & up	10"	0" – 1/2"	2 Hour	2 Hour	69 min





- **1. PENETRATING ITEM:** See table above. Single penetrations only.
  - a. METAL SLEEVE Min. 24 GA or heavier metal sleeve, fit tightly into the opening flush with or max. 1-1/2" (38mm) above the top surface of the floor assembly.

## 2. FLOOR/CEILING FIRE SEPARATIONS:

- a. Min. 20 GA or heavier galvanized steel decking, with min. 1-1/2 in. (38mm) flute height firmly supported with min. 3 in. (77mm) concrete cover.
- b. Cast in place, normal or light density concrete floor/ceiling assemblies having a min. thickness of 4-1/2 in. (115mm).
- 3. FIRESTOP SYSTEM, COMPONENT 1: Grabber Construction Products, Inc. GrabberGard EFC\* or GrabberGard IFC\* installed at a min.

thickness of 1/2 in. (13mm) within the annulus on the top surface of the floor assembly. On 0 in. to 1/4 in. (6mm) annular spaces, a 3/8 in. (10mm) diameter fillet bead must be placed around the penetrating item on the surface of the concrete.

- **4. FIRESTOP SYSTEM, COMPONENT 2:** Filler material, mineral wool insulation with a min. density of 4-6 PCF (68 kg/m3), compressed a min. of 25% into the annular space at a min. depth of 3-1/2 in. (90mm). Recess filler material 1/2 in. (13mm) for sealant placement.
- THROUGH INSULATING MATERIAL: Koolphen K rigid phenolic foam insulation having a 1 in. (25mm) wall thickness.

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<sup>\*</sup>WH Labeled Component