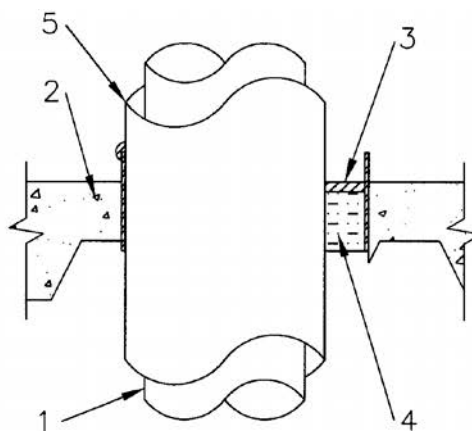
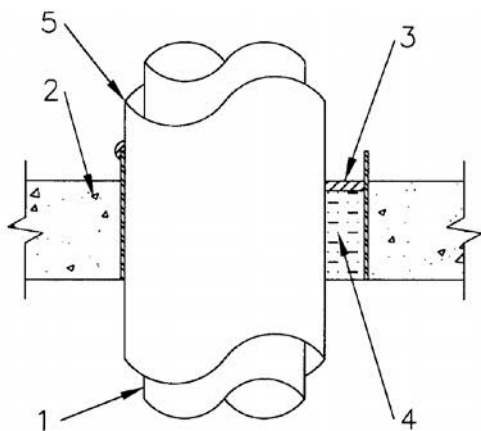


Grabber Construction Products, Inc.
Design No. JWA/PH 120-02
Horizontal Floor/Ceiling Assembly, Pipe Insulation Through Penetrations, Single Penetrations Only
GrabberGard EFC and GrabberGard IFC
Test Standards: ASTM E814, UL 1479, ULC S115
Test Furnace Internal Positive Pressure Differential – 2.5 Pa (0.01 in. of water) Minimum
Rating: 2 Hour

Penetrating Material & Size	Max Hole Size	Annular Space	Fire "F" Rating	Fire/Hose "FH" Rating	Temp 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.

5. THROUGH INSULATING MATERIAL: Koolphen K rigid phenolic foam insulation having a 1 in. (25mm) wall thickness.

*WH Labeled Component