

Grabber Construction Products, Inc.

Design No. JWA/PHV 120-17

Horizontal (Floor/Ceiling) or Vertical (Wall) Assembly, Single Penetrations

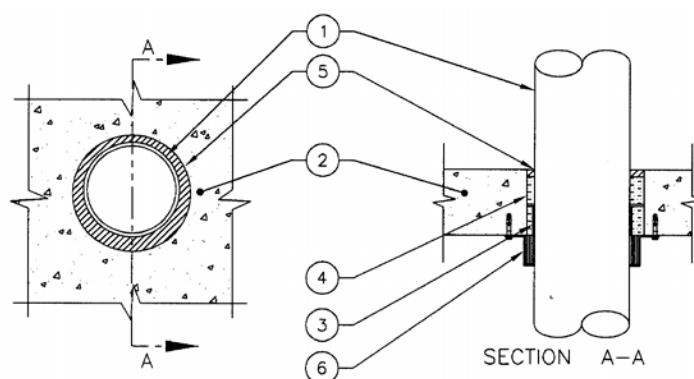
GrabberGard EFC and GrabberGard IFC

Test Standards: ASTM E814, UL 1479, ULC S115: Open and Closed Systems

Test Furnace Internal Positive Pressure Differential – 50 Pa (0.2 in. of water)

Rating: 2 Hour

Penetrating Material & Size	Max Hole Size	Annular Space	Fire "F" Rating	Fire/Hose "FH" Rating	Temp Rating "FTH" Rating
PVC Plastic Pipe 1-1/2" – 6"	8"	1/2" – 1"	Up to 2 Hour	Up to 2 Hour	Up to 2 Hour
ccPVC Plastic Pipe 1-1/2" - 6"	8"	1/2" – 1"	Up to 2 Hour	Up to 2 Hour	Up to 2 Hour
CPVC Plastic Pipe 1-1/2" – 6"	8"	1/2" – 1"	Up to 2 Hour	Up to 2 Hour	Up to 2 Hour



1. PENETRATING ITEM: Centered or offset in hole, see table above. Single penetrations only, max. hole size not to exceed table above.

2. FLOOR OR WALL ASSEMBLY: Code conforming 2 hour rated floor or wall assembly having a min. nominal 4-1/2 in. (115mm) thick lightweight or normal weight concrete or hollow-core concrete. Wall may also be constructed of nominal 8 in. (203mm) thick concrete blocks (filled or unfilled).

HOLE CORE CONCRETE – (Not Shown) Seal the annular space at pipe penetration on the floor side with a min. 1/2 in. (13mm) thickness of Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC*. Caulking is applied over min. 2 in. (102mm) thickness of mineral wool. Bottom side of floor assembly firestop as per Firestop Systems, Components 1, 2 & 4 (see below).

3. FIRESTOP SYSTEM, COMPONENT 1: PFP Partners – Wrap Strip WS1* – Nominal 1/8 in. (3mm) thick intumescent material supplied in 2 in. (50mm) wide strips. Min. one layer of strip to be wrapped tightly around penetration and fastened in place with aluminum foil tape. Wrap strip to be flush with bottom surface of floor or both sides of the wall.

4. FIRESTOP SYSTEM, COMPONENT 2: Filler material, mineral rock 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 2 in. (102mm) on each side of the floor or wall assembly. Recess filler material 1/2 in. (13mm) for sealant placement, not required for wall assemblies. For walls, filler material to be flush with both sides of the assembly.



5. **FIRESTOP SYSTEM, COMPONENT 3:** Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* installed at a min. thickness of 1/2 in. (13mm) within the annulus on top surface of floor assembly, not required for wall assemblies.
6. **FIRESTOP SYSTEM, COMPONENT 4:** PFP Partners – Plastic Pipe Collar* (PPC) specifically sized for diameter of pipe. PPC secured to floor/ceiling assembly or wall assembly using 1/4 in. (6mm) diameter x 1-1/4 in. (32mm) long steel masonry anchors over fender washers. For walls, the system shall be symmetrical, with PPC installed on each side of the assembly and fixed in the manner as described for floor penetrations.
7. **FIRESTOP SYSTEM, COMPONENT 5:** (Not Shown) – (Optional) – Metal Tab Extender Straps: When anchoring holes in the PPC are too close to the edge of opening, steel extender straps may be added. Straps to be min. 1 in. (25mm) wide 22 GA or heavier galvanized steel metal straps sized to extend from PPC anchor tabs to underside of concrete wall or floor assembly. Max. three metal straps installed per PPC. Metal straps secured to PPC using 1/4 in. (6mm) diameter x 1 in. (25mm) long steel bolts with nuts over fender washers. Max. length of straps to be 4-1/2 in. (144mm).

*WH Labeled Component