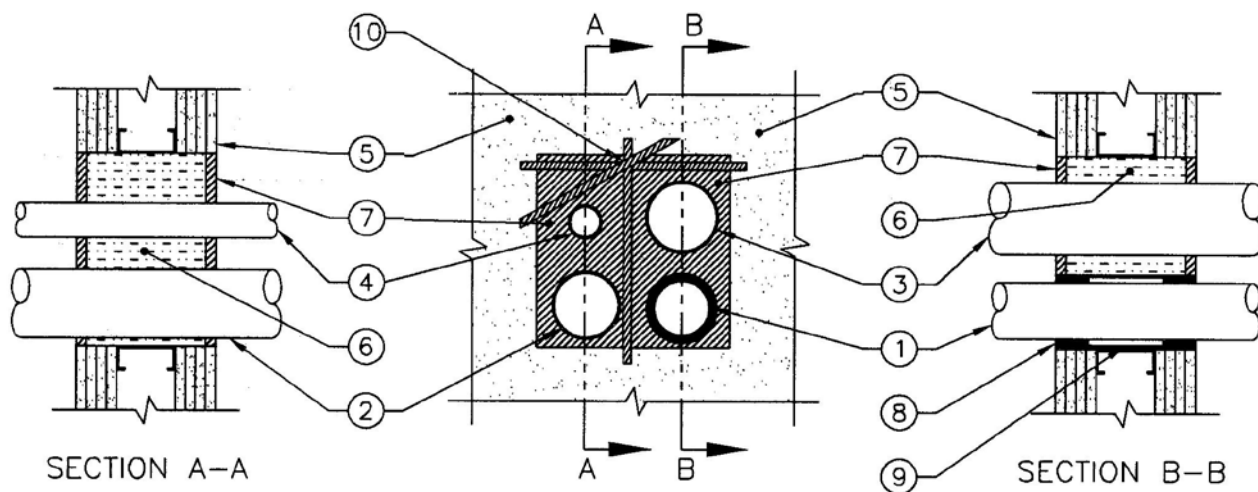


Grabber Construction Products, Inc.
Design No. JWA/PV 240-02
Vertical Wall Assembly, Single and Multiple Through Penetrations
GrabberGard EFC and GrabberGard IFC
ASTM E814, UL 1479, ULC S115**

Test Furnace Internal Positive Pressure Differential – 2.5 Pa (0.01 in. of water) Minimum
Rating: 4 Hour

Penetrating Material & Size	Annular Space	ASTM E814 & UL 1479		CAN/ULC S 115-M95		
		"F" Rating	"T" Rating	Fire "F" Rating	Fire/Hose "FH" Rating	Temp "FTH" Rating
1. PVC** or CPVC** Pipe up to 3" (76mm) ID Sch 40 (Closed or Open System)	3/4" – 2" (19-51mm)	4 hour	240 min	4 hour	4 hour	240 min
2. EMT/Steel Conduit and Pipe up to 4" (102mm) ID Sch 40	3/4" – 2" (19-51mm)	4 hour	58 min	4 hour	4 hour	58 min
3. Copper Pipe and Tubing up to 4" (102mm) ID	3/4" – 2" (19-51mm)	4 hour	23 min	4 hour	4 hour	23 min
4. Multiple MC/Teck Cable with or without PVC Jacket up to 2" (51mm) OD	3/4" – 2" (19-51mm)	4 hour	204 min	4 hour	4 hour	204 min



1. – 4. PENETRATING ITEMS: 1. – 4. from table, either singly or combination, including all. The annular space between penetrants and to periphery of the opening are to be min. 3/4 in. (19mm) to max. 2 in. (51mm). The max. opening is 144 in.² (0.09m²). All penetrating items must be reliably supported.

5. WALL ASSEMBLY: 4 hour rated ASTM E-119 or CAN/ULC S101 wall assemblies as follows:

- a) Metal or wood framed gypsum wall board (GWB) wall assemblies with opening within the wall assembly completely framed to form a rectangular box or;
- b) Cast-in-place concrete wall assemblies having a min. cross-section thickness of 6 in. (150mm) or;



- c) Hollow or concrete filled unit masonry (concrete block) wall assemblies laid up with mortar having a min. cross-section thickness of 8 in. (200mm).

6. FIRESTOP SYSTEM COMPONENT 1: Filler Material, mineral rock wool or ceramic fiber insulation with a min. density of 4 PCF (64 kg/m³) compressed a min. of 25% into the annular space at a min. depth of 7 in. (88mm). Recess filler material 5/8 in. (16mm) for sealant placement (Item No. 7).

7. FIRESTOP SYSTEM COMPONENT 2: Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* each product must be installed at a min. wet film thickness of 5/8 in. (16mm).

8. FIRESTOP SYSTEM COMPONENT 3: PFP Partners – Wrap Strip WS1* – Nominal 1/8 in. (3mm) thick intumescent material supplied in 2 in. (51mm) wide strips. Min. three continuous layers of wrap strip around the circumference of the PVC pipe applied on each side of wall assembly. Use aluminum foil tape

installed around the circumference of the outer wrap strip and pipe assembly for securing wrap strips in place.

9. FIRESTOP SYSTEM COMPONENT 4: Min. 30 GA sheet metal sleeve to be tightly fitted to the outer wrap strip and pipe assembly. Sheet metal sleeve cut to overlap a min. of 1 in. (25mm), flush with exterior surface of wall assembly. Sleeve secured to wrap strip and pipe assembly be use of two hose clamps located a min of 1 in. (25mm) from either end of sleeve.

10. FIRESTOP SYSTEM COMPONENT 5: For use when annular space exceeds 2 in. Strips of min. 1/2 in. (13mm) wide strips of min. 26 GA galvanized sheet metal strips attached on both sides of the wall, such that the annular space between periphery and strip and/or penetration and strip is max. 2 in. (51mm).

*WH Labeled Component

** Not tested to 50pa pressure differential as required by Canadian code for combustible DWV (Drain, Waste or Vent) piping systems.