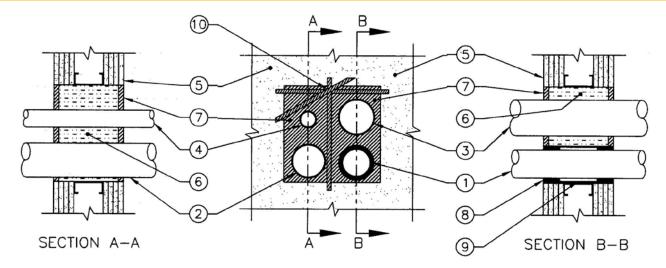


Grabber Construction Products, Inc. Design No. JWA/PV 240-02

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
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
 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;



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- 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.

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