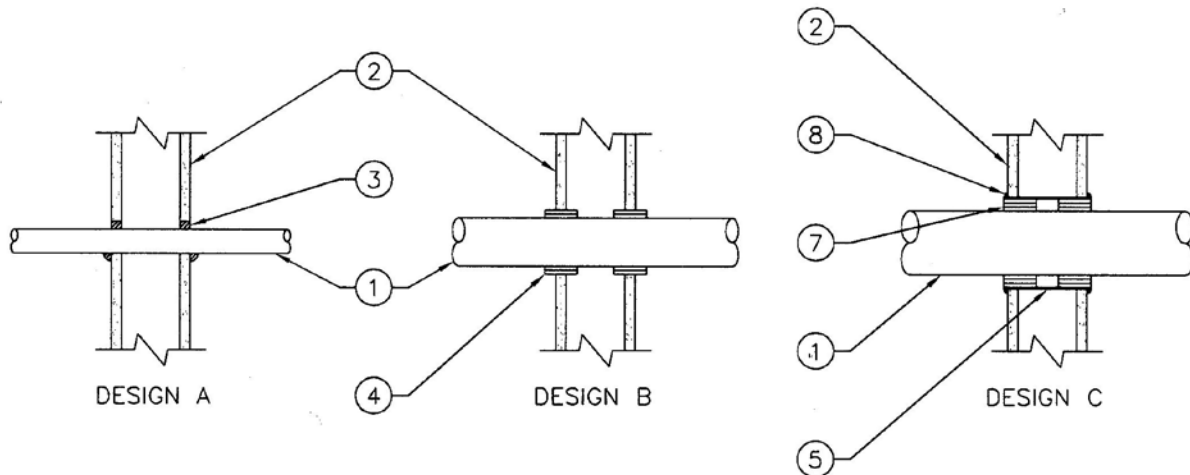


Grabber Construction Products, Inc.
Design No. JWA/PV 60-04
Vertical Wall Assembly, Single Penetrations
GrabberGard EFC and GrabberGard IFC
Test Standards: ASTM E814, UL 1479
ULC S115: Non-metallic Open and Closed Systems
Positive Pressure Differential – 50 Pa (0.2 in. of water) Minimum
Rating: 1 Hour

Penetration Material & Size	Design Number	Max Hole Size	Annular Space	ASTM E-814		ULC S115-M95	
				"F"	"T"	"F"	"FTH"
ABS up to 1-1/2"	A	2"	0" – 1/2"	1 hour	50 min	1 hour	50 min
ccABS up to 1-1/2"	A	2"	0" – 1/2"	1 hour	50 min	1 hour	50 min
PEX up to 1" (See Note on Item 3)	A	1-1/2"	0" – 3/8"	1 hour	8 min	1 hour	8 min
PVC up to 1-1/2"	A	2"	0" – 1/2"	1 hour	1 hour	1 hour	1 hour
ccPVC up to 1-1/2"	A	2"	0" – 1/2"	1 hour	1 hour	1 hour	1 hour
CPVC up to 1-1/2"	A	2"	0" – 1/2"	1 hour	1 hour	1 hour	1 hour
Nonmetallic Rigid Conduit up to 1-1/2"	A	2"	0" – 1/2"	1 hour	1 hour	1 hour	1 hour
ABS up to 3"	B	4"	1/4"	1 hour	1 hour	1 hour	1 hour
ccABS up to 3"	B	4"	1/4"	1 hour	1 hour	1 hour	1 hour
PEX up to 2"	B	2-5/8"	1/4"	1 hour	17 min	1 hour	17 min
PVC up to 3"	B	4"	1/4"	1 hour	1 hour	1 hour	1 hour
ccPVC up to 3"	B	4"	1/4"	1 hour	1 hour	1 hour	1 hour
CPVC up to 3"	B	4"	1/4"	1 hour	1 hour	1 hour	1 hour
Nonmetallic Rigid Conduit up to 3"	B	4"	1/4"	1 hour	1 hour	1 hour	1 hour
ABS up to 4"	C	5-1/4"	3/8"	1 hour	1 hour	1 hour	1 hour
ccABS up to 4"	C	5-1/4"	3/8"	1 hour	1 hour	1 hour	1 hour
PVC up to 4"	C	5-1/4"	3/8"	1 hour	1 hour	1 hour	1 hour
ccPVC up to 4"	C	5-1/4"	3/8"	1 hour	1 hour	1 hour	1 hour
CPVC up to 4"	C	5-1/4"	3/8"	1 hour	1 hour	1 hour	1 hour
Nonmetallic Rigid Conduit up to 4"	C	5-1/4"	3/8"	1 hour	1 hour	1 hour	1 hour



- 1. PENETRATING ITEM:** Centered or offset in hole, see table above. Single penetrations only, max. hole size not to exceed table above.
- 2. WALL ASSEMBLY:** 1 hour ASTM E-119 or CAN/ULC S101 metal or wood framed fire-rated gypsum wall board (GWB) wall fire assembly.



DESIGN A

- 3. FIRESTOP SYSTEM; COMPONENT 1:** Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* installed at a min. thickness of 5/8 in. (18mm) within the annulus of wall assembly. Between 0 in. – 1/4 in. (6mm) annulus spaces, a 1/2 in. (13mm) diameter fillet bead must be placed around the penetrating item.

DESIGN B

- 4. FIRESTOP SYSTEM; COMPONENT 2:** PFP Partners – Wrap Strip WS1* – Nominal 1/8 in. thick intumescent material supplied in 2 in. wide strips. Min. two continuous layers of wrap strip to be wrapped around the circumference of the penetrant. Wrap strips are individually wrapped around penetrant with ends butted and held in place with aluminum foil tape. Butted ends of successive layers may be staggered or aligned. Layers of wrap strip to be centered in membrane such that there is the same distance on each side of membrane surface.
- 5. FIRESTOP SYSTEM, COMPONENT 3:** (Optional) (Not Shown) Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* min. 1/4 in. diameter bead of caulk to be applied at wrap strip/wallboard interface on both surfaces of wall.

DESIGN C

- 6. FIRESTOP SYSTEM, COMPONENT 4:** Min. 20 GA sheet metal sleeve, outside diameter of sleeve to be tightly fitted with inside diameter of opening, flush with or extend max. 1/2 in. past both surfaces of wall.
- 7. FIRESTOP SYSTEM; COMPONENT 5:** PFP Partners – Wrap Strip WS1* – Nominal 1/8 in. thick intumescent material supplied in 2 in. wide strips. Min. three continuous layers of wrap strip to be wrapped around the circumference of the penetrant. Wrap strips are individually wrapped around penetrant with ends butted and held in place with aluminum foil tape. Butted ends of successive layers may be staggered or aligned. Wrap strips to be flush with both ends of sheet metal sleeve.
- 8. FIRESTOP SYSTEM, COMPONENT 6:** Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* min. 1/4 in. diameter bead of caulk shall be applied at sheet metal sleeve/wallboard interface on both surfaces of wall.

*WH Labeled Component