

Grabber Construction Products, Inc.
Design No. JWA/PV 60-04

Vertical Wall Assembly, Single Penetrations

GrabberGard EFC and GrabberGard IFC

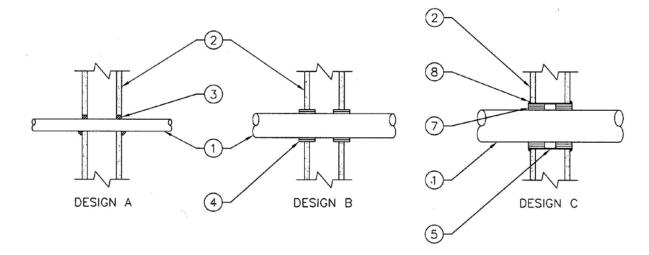
Test Standards: ASTM E814, UL 1479

ULC S115: Non-metallic Open and Closed Systems

Positive Pressure Differential – 50 Pa (0.2 in. of water) Minimum

Rating: 1 Hour

| Penetration | Design | Max | Annular | ASTM E-814 | | ULC S115-M95 | |
|--|--------|-----------|-----------|------------|--------|--------------|--------|
| Material & Size | Number | Hole Size | Space | "F" | "T" | "F" | "FTH" |
| ABS up to 1-1/2" | Α | 2" | 0" - 1/2" | 1 hour | 50 min | 1 hour | 50 min |
| ccABS up to 1-1/2" | Α | 2" | 0" - 1/2" | 1 hour | 50 min | 1 hour | 50 min |
| PEX up to 1" (See Note on Item 3) | Α | 1-1/2" | 0" – 3/8" | 1 hour | 8 min | 1 hour | 8 min |
| PVC up to 1-1/2" | Α | 2" | 0" - 1/2" | 1 hour | 1 hour | 1 hour | 1 hour |
| ccPVC up to 1-1/2" | Α | 2" | 0" - 1/2" | 1 hour | 1 hour | 1 hour | 1 hour |
| CPVC up to 1-1/2" | Α | 2" | 0" - 1/2" | 1 hour | 1 hour | 1 hour | 1 hour |
| Nonmetallic Rigid Conduit up to 1-1/2" | Α | 2" | 0" - 1/2" | 1 hour | 1 hour | 1 hour | 1 hour |
| ABS up to 3" | В | 4" | 1/4" | 1 hour | 1 hour | 1 hour | 1 hour |
| ccABS up to 3" | В | 4" | 1/4" | 1 hour | 1 hour | 1 hour | 1 hour |
| PEX up to 2" | В | 2-5/8" | 1/4" | 1 hour | 17 min | 1 hour | 17 min |
| PVC up to 3" | В | 4" | 1/4" | 1 hour | 1 hour | 1 hour | 1 hour |
| ccPVC up to 3" | В | 4" | 1/4" | 1 hour | 1 hour | 1 hour | 1 hour |
| CPVC up to 3" | В | 4" | 1/4" | 1 hour | 1 hour | 1 hour | 1 hour |
| Nonmetallic Rigid Conduit up to 3" | В | 4" | 1/4" | 1 hour | 1 hour | 1 hour | 1 hour |
| ABS up to 4" | С | 5-1/4" | 3/8" | 1 hour | 1 hour | 1 hour | 1 hour |
| ccABS up to 4" | С | 5-1/4" | 3/8" | 1 hour | 1 hour | 1 hour | 1 hour |
| PVC up to 4" | С | 5-1/4" | 3/8" | 1 hour | 1 hour | 1 hour | 1 hour |
| ccPVC up to 4" | С | 5-1/4" | 3/8" | 1 hour | 1 hour | 1 hour | 1 hour |
| CPVC up to 4" | С | 5-1/4" | 3/8" | 1 hour | 1 hour | 1 hour | 1 hour |
| Nonmetallic Rigid Conduit up to 4" | С | 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 firerated gypsum wall board (GWB) wall fire assembly.

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Division 07 – Thermal and Moisture Protection 07 84 00 Firestopping 07 84 13 Penetration Firestopping

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.

SFT-BC-OP-19i

*WH Labeled Component

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