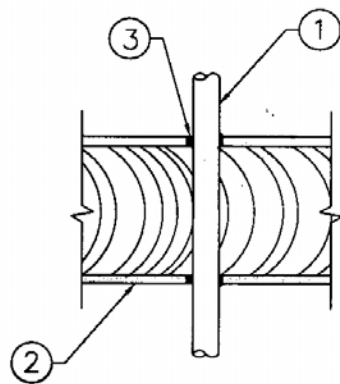
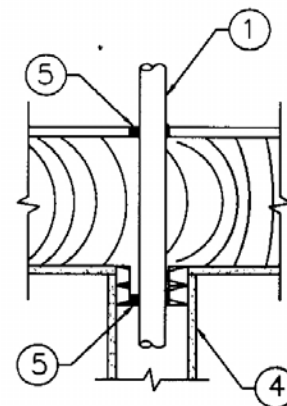


Grabber Construction Products, Inc.
Design No. JWA/PH 60-01
Horizontal Floor/Ceiling Assembly
GrabberGard EFC and GrabberGard IFC
Test Standards: ASTM E814, UL 1479: Non-metallic Open and Closed Systems
ULC S115: Non-metallic Closed Pipe**
Positive Pressure Differential – 2.5 Pa (0.01 in. of water) Minimum
Rating: 1 Hour

Penetrating Material & Size	Design Number	Max Hole Size	Annular Space	ASTM E-814		ULC S115-M95		
				"F"	"T"	"F"	"FH"	"FT"
PVC up to 1-1/2 in.	A	2-1/2"	0" – 1/2"	1 hour	50 min	1 hour	1 hour	50 min
PVC up to 2 in.	A	3"	0" – 1/2"	N/A	N/A	1 hour	N/A	15 min
Nonmetallic Rigid Conduit up to 1-1/2 in.	A	2-1/2"	0" – 1/2"	1 hour	50 min	1 hour	1 hour	50 min
Nonmetallic Rigid Conduit up to 2 in.	A	3"	0" – 1/2"	N/A	N/A	1 hour	N/A	15 min
PEX up to 1 in	A	2"	0" – 1/2"	1 hour	10 min	1 hour	1 hour	10 min
CPVC up to 2 in.	A	3"	0" – 1/2"	N/A	N/A	1 hour	N/A	15 min
PEX up to 1 in	B	2"	0" – 1/2"	1 hour	40 min	1 hour	1 hour	40 min
PE/Al/PE up to 3/4 in.	B	1-3/4"	0" – 3/4"	1 hour	1 hour	1 hour	1 hour	1 hour
PEX/Al/PEX up to 3/4 in.	B	1-3/4"	0" – 3/4"	1 hour	1 hour	1 hour	1 hour	1 hour



DESIGN A



DESIGN B

- 1. PENETRATING ITEM:** Centered or offset in hole, see table above. Single penetrations only, max. hole size not to exceed table above.
- 2. FLOOR/CEILING ASSEMBLY:** 1 hour fire-rated ASTM E-119 or CAN/ULC S101 wood framed gypsum wallboard (GWB) floor/ceiling assemblies with or without concrete topping, having a min. depth of 10-3/4 in. (275mm).



DESIGN A

- 3. FIRESTOP SYSTEM COMPONENT 1:** Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* fully filling the annular space to the full depth of the membrane. On 0 in. to 1/4 in. (6mm) annular space, a min. 1/2 in. (12mm) diameter bead of sealant must be placed around penetrating item.

DESIGN B

- 4. WALL ASSEMBLY:** Rated or non-rated, metal or wood framed gypsum wallboard (GWB) wall assemblies.

- 5. FIRESTOP SYSTEM COMPONENT 1:** Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* fully filling the annular space to the full depth of the membrane. Fill header and sill plate contained in wall assembly min. 5/8 in. (16mm) depth. On 0 in. to 1/4 in. (6mm) annular space, a min. 1/2 in. (12mm) diameter bead of sealant must be placed around penetrating item.

*WH Labeled Component

** Not Tested to 50 Pa Pressure Differential as Required by Canadian Code Requirements for Combustible Drain, Waste, or Vent Piping Systems