

## System No. F-A-1017

The firestop device and metallic penetrant shall be sized as follows:

Nom Pipe Diameter+, ++	Firestop Device	
1-1/2 to 2-1/2 in. (38 to 64 mm)	CP 680N-75/2.5" or CP 682-75/2.5"	
1-1/2 to 2 in. (38 to 51 mm)	CP 680-M 2", CP 680-P 2", CP 680-PX 2"	
2-1/2 to 3 in. (64 to 76 mm)	CP 680-M 3", CP 680-P 3", CP 680-PX 3"	
3 to 4 in. (76 to 102 mm) (Copper pipe or tubing)	CP 680N-110/4"	
	CP 680-P 4"	
3 to 4 in. (76 to 102 mm) (Other than copper pipe or tubing)	CP 680N-110/4" or CP 682-110/4"	
	CP 680-M 4", CP 680-P 4"	
4 in. (102 mm) (Copper pipe or tubing)	CP 682-110/4"	
	CP 680-M 4"	
Greater than 4 to 6 in. (102 to 152 mm)	CP 680N-160/6", CP 680-P 6"	
6 in. (152 mm)	CP 680-M 6"	

+ When metallic pipes of diameters smaller than those shown above are installed within the device, CP618 Firestop Putty Stick or mineral wool insulation shall be installed within the device.

++ L Rating applies only to CP 680-M and CP 680-P(X) devices and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.) L Rating does not apply to CP 680N and CP682 devices.

4. Fill, Void or Cavity Material\* - Putty (Not Shown) — Min 1 in. (25 mm) thickness of fill material applied within annulus flush with top surface of device.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 618 Firestop Putty Stick

4A. Packing Material (Not Shown) — As an alternate to Item 4, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool insulation firmly packed to the fullest extent possible within annulus flush with top surface of device.

4B. Firestop Device\* - Top Seal Plug — (Optional, Not Shown) - Top seal plug for use with CP 680-M 2" and CP 680-P(X) 2"devices and nom pipe, conduit or tubing sizes of ½ in. (13 mm) to 2 in. (51 mm) diam. Plug is friction fit into top of firestop device (Item 2) in accordance with the manufacturer's instructions. When top seal plug is used, no putty (Item 4) or packing material (Item 4A) is required. W Rating applies only to nom 1, 1-1/4, 1-1/2 and 2 in. (25, 32, 38 and 51 mm) diam copper pipe/tube in conjunction with 2" CPS Top Seal and CP 680-M 2" or CP 680-P(X) 2" devices.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CPS Top Seal Plugs



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4B1. Firestop Device\* - Water Barrier Module — (Optional, Not Shown) - Used an alternate to top seal plug (Item 4B). Used in combination with the CP 680-M and CP 680-P(X) devices and supplied by device manufacturer. Module is threaded onto top of device. See Table below for sizes of device/module and penetrants covered. When water barrier module is used, a W Rating applies to the water barrier module, device and penetrant sizes specified in Table below. For W Rating with Water Barrier Module, pipe shall be installed from bottom of device. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module

Penetrant Type (See Item 3 above)	Nom Penetrant Diam	Size of Device/Module
A, B, C, D	2"	2"
	2-1/2"	3"
	3"	3"
	4"	4"
	6"	6"
E, F	2"	2"
	3"	3"
	4"	4"
	6"	6"

5. Pipe Tee Fitting System — (Optional, Not Shown) — For use with Iron Pipe (Item 3B) only, One nom 6 in. (152 mm) diam (or smaller) PVC TESTRITE TEE Fitting (matched to penetrant diameter). The PVC TESTRITE TEE Fitting is secured to metallic penetrant (Item 3B) with compression type pipe coupling elastomeric gasket with stainless steel jacket and stainless steel band clamps for use in vented (drain, waste or vent) iron pipe systems. Installed (Item 3B) penetrant shall extend a minimum of 6 in. (152 mm) above the surface of the floor and minimum 12 in. (302 mm) below the bottom surface of the floor above assembly.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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