

## System No. F-A-2013



The ratings of the firestop systems are dependent on the diam of penetrant, size of device and thickness of the concrete assembly as indicated in the table below.

				Ratings, h			
Min Concrete Thickness,	Fireston	Penetrant Diam,	Packing Material (Item 4)				
mm (in.)	Device	mm (in.)	Required	F	FT	FH	FTH
64 (2-1/2)	CP680 - 75/2.5"N	51 (2)	No	2	0 and 1 #	2	1
	CP 680-P 2" CP 680-PX 2"						
114 (4-1/2)	CP680 - 75/2.5"N	51 (2)	No	3	0 and 2 #	0	0
	CP 680-P 2" CP 680-PX 2"						
114 (4-1/2)	CP680 - 75/2.5"N	Less Than 51 (2)	Yes	3	0	0	0
	CP 680-P 2" CP 680-PX 2"						

# T Rating only applies to closed piping systems.

- 4. Packing Material (Not Shown) Where indicated in Table above, min 102 mm (4 in.) thickness of 64 kg/m3 (4 pcf) mineral wool insulation shall be firmly packed to the fullest extent possible within annulus of device above the smoke seal gasket, between penetrant and device. Packing material to be installed flush with top surface of device.
- \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 29, 2015

Page: 2 of 2