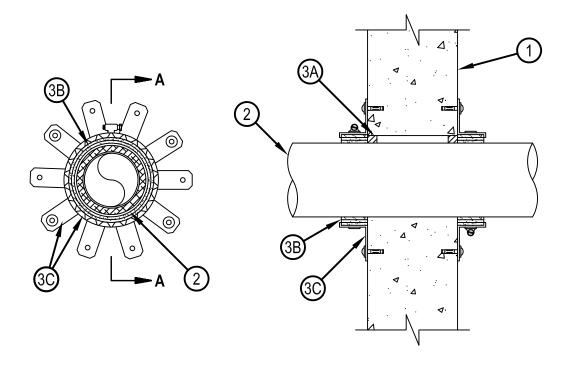


System No. W-J-2029

CANADA ONLY

F Rating — 2 Hr FT Rating — 2 Hr FH Rating — 2 Hr FTH Rating — 2 Hr



SECTION A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- 1. Wall Assembly Min 152 mm (6 in. thick) reinforced lightweight or normal weight (1600-2400 kg/m3 or 100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 140 mm (5-1/2 in.).
 - See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 2. Through Penetrants One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space between pipe and periphery of opening to be min 0 in. (point contact) and max 13 mm (1/2 in.). Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - A. Polypropylene (PP) Pipe Nom 100 mm (4 in.) diam (or smaller) SDR11 PP pipe for use in closed (process or supply) piping systems.
 - B. Polypropylene (PP) Pipe Nom 125 mm OD (or smaller) Fusiotherm® SDR11 PP pipe or Faser® SDR7.4 PP pipe for use in closed (process or supply) piping systems.



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- 3. Firestop System The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Materials* Sealant Min 16 mm (5/8 in.) thickness of fill material applied within the annulus, flush with both surfaces of wall.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
 - B. Fill, Void or Cavity Material* Wrap Strip Nom 5 mm (3/16 in.) thick by 44 mm (1-3/4 in.) wide intumescent wrap strip. Three layers of wrap strip are continuously wrapped around the through-penetrant with ends butted and held in place with tape. Wrap strip butted tightly against both surfaces of wall.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP648-E W45/1-3/4" Firestop Wrap Strip
 - C. Steel Collar Steel collar fabricated from coils of precut min 0.4 mm (0.016 in.) thick (No. 28 gauge) galv steel available from fill material manufacturer. Collar shall be nom 44 mm (1 3/4 in.) deep with 25 mm (1 in.) wide by 51 mm (2 in.) long anchor tabs on 44 mm (1-3/4 in.) centers for attachment to both surfaces of wall. The opposite side incorporates retainer tabs, 13 mm (1/2 in.) wide by 5 mm (3/16 in.) long, which are bent toward the pipe surface. Collar shall be tightly wrapped over the wrap strip, overlapping min 25 mm (1 in.) at seam. A nom 13 mm (1/2 in.) wide stainless steel hose clamp shall be secured to the collar at its mid-height. Collar secured to both surfaces of wall with a min of four 6 mm (1/4 in.) diam steel expansion bolts along with min 19 mm (3/4 in.) diam steel washers symmetrically spaced.
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

