

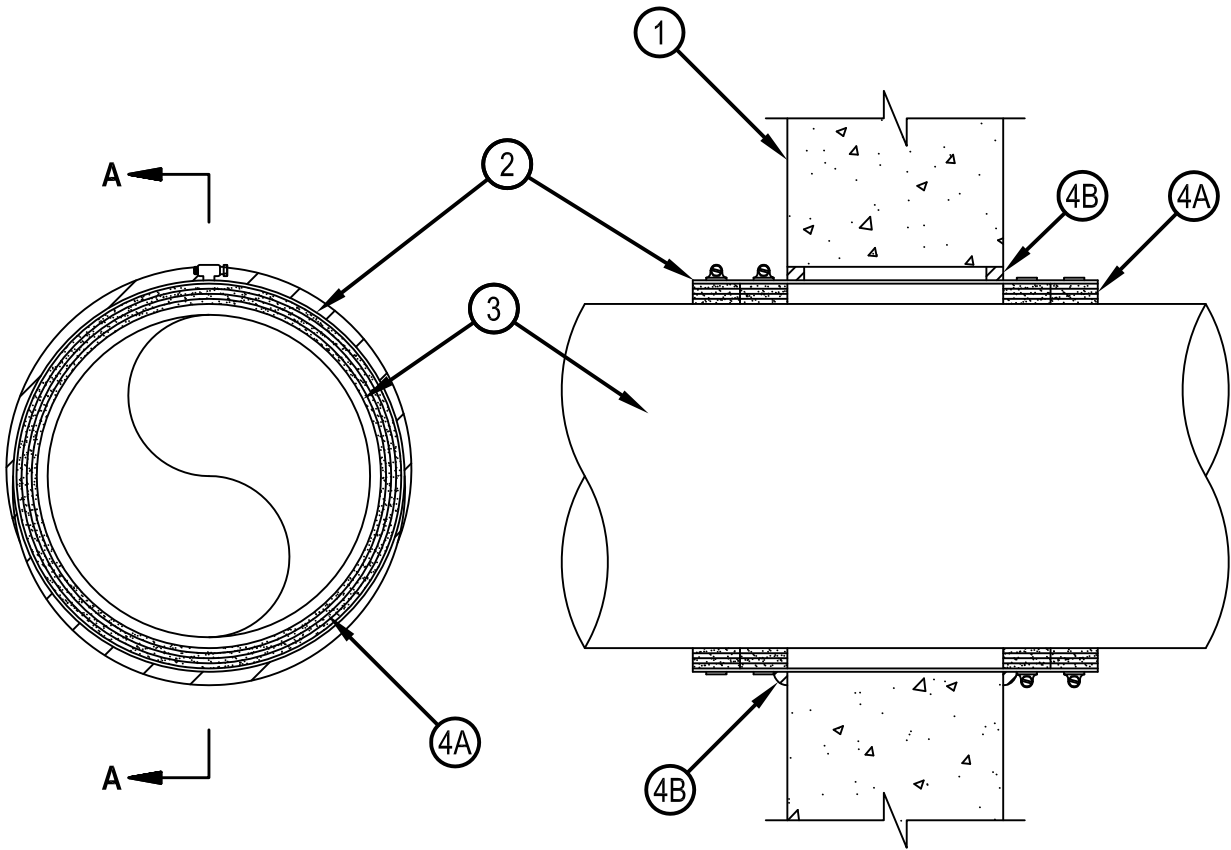


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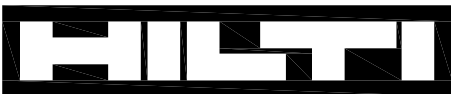
System No. W-J-2121

F Rating - 2 Hr
T Rating - 2 Hr

WJ 2121



SECTION A-A



Hilti Firestop Systems

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1. Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 15 in. (381 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — Nom 14 1/2 in. (368 mm) diam (or smaller) cylindrical sleeve fabricated from 0.016 in. thick (No 28 gauge) galv sheet steel and having a min 1 in. lap along longitudinal seam. Sleeve to extend 3 1/2 in. (89 mm) beyond each surface of wall. The sleeve shall be compressed around the pipe (Item 3) and wrap strip (Item 4A) using 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel band clamps fastened at the center of each wrap strip. The annular space between the sleeve the periphery of the opening shall be a min 0 in. (point contact) to max 3/4 in. (19 mm).
3. Through-Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - A. Polyvinyl Chloride (PVC) Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 40 solid or cellular PVC core pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 12 in. (305 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
4. Firestop System — The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material - Wrap Strip — Nom 3/16 in. (5 mm) thick by 1-3/4 in. (44 mm) wide intumescent wrap strip. Four layers of wrap strip are continuously wrapped around the pipe and held in place with tape. Two sets of wrap strip are installed within the steel sleeve on each side of the wall, flush with surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-E W45/1-3/4" Wrap Strip
 - B. Fill, Void or Cavity Material - Sealant* — Min 5/8 in. (16 mm) thickness of fill material applied within annulus between concrete and steel sleeve, flush with surfaces of wall. At point contact, a min 1/2 in. (13 mm) bead of fill material shall be applied at the concrete/steel sleeve interface on both sides of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* 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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