



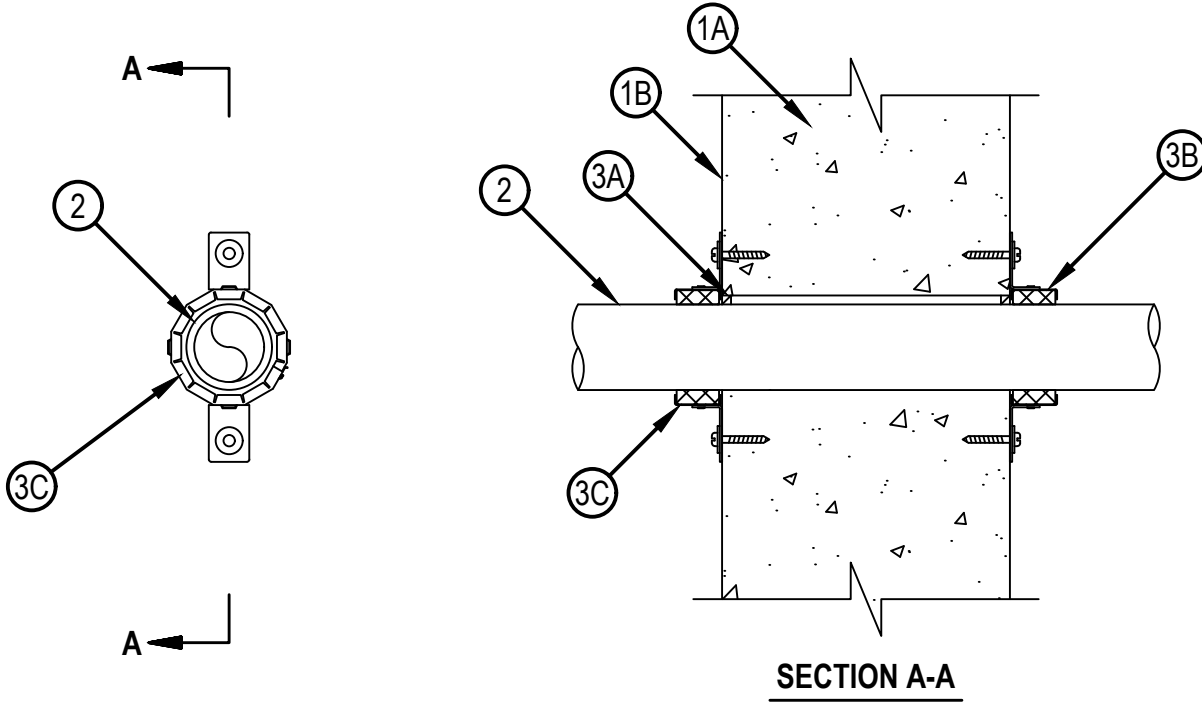
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. W-J-2247

F Rating - 2 Hr
FT Rating - 1-1/4 Hr
FH Rating - 0 Hr
FTH Rating - 0 Hr



WJ 2247



SECTION A-A

System No. W-J-2247



WJ 2247

System tested with a pressure differential of 50 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 76 mm (3 in.).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrant — One nonmetallic pipe installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be a min 0 mm (point contact) to a max 16 mm (5/8 in). Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of pipe may be used:

A. Polypropylene (PP) Pipe — Nom nominal 51 mm (2 in.) diam (or smaller) Schedule 80 polypropylene pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. Polypropylene (PP-R) Pipe — Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Greenpipe SDR 7.4 or 11 pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. Polypropylene (PP-RCT) Pipe — Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Bluepipe SDR 9 or 11 pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

D. HR Polyvinyl Chloride (PVC-HR) Pipe — Nom 2 in. (63 mm OD) diam (or smaller) NAPSYS-HR PVC Sch 40 pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* — Sealant — Min 16 mm (5/8 in.) thickness of fill material applied within annulus, flush with both surfaces of wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant.

B. Firestop Device* - Firestop Collar — Firestop collar shall be wrapped around the outer circumference of the pipe and installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the penetrant and secured to both sides of wall using the anchor hooks provided with the collar. The anchor hooks are to be secured with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or min 0.145 in. (4 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a 1-7/16 in. (36 mm) diam by 1/16 in. (2 mm) thick steel washer. As alternates to the anchors specified above, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II+ concrete screw anchor, Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long KWIK-BOLT 3 steel expansion anchor or Hilti X-DNI 27 P8 S15 powder actuated floor pin with integral nom 1 in. (25 mm) diam washer may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 63/2"N, CP 643 63/1.5"N

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



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
August 2, 2021

Page: 2 of 2