



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

System No. W-J-2028

F Rating — 2 Hr

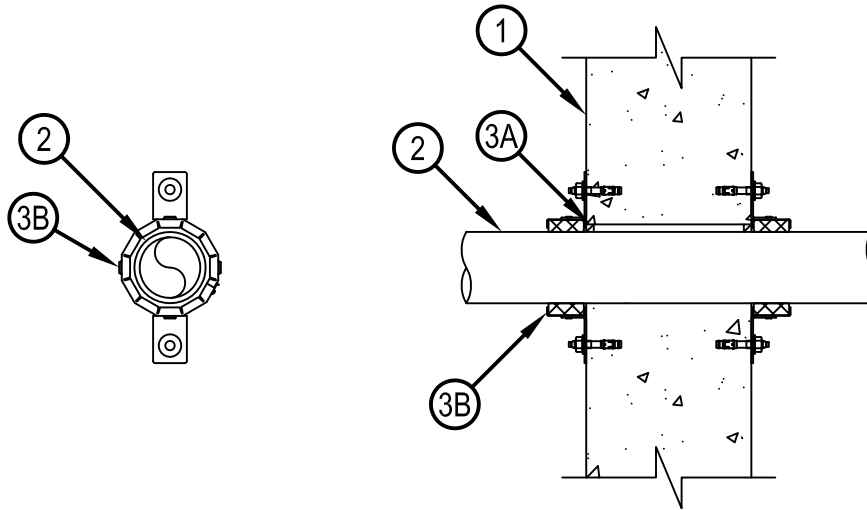
FT Ratings — 1/2 and 1 Hr (See Item 2)

FH Ratings — 0 and 2 Hr (See Item 2)

FTH Ratings — 0, 1/2 and 1 Hr (See Item 2)



WJ 2028



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 140 mm (5-1/2 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 127 mm (5 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 16 mm (5/8 in.). Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. Polypropylene (PP) Pipe — Nom 51 mm (2 in.) diam (or smaller) SDR 11 PP pipe for use in closed (process or supply) piping systems.

B. Polypropylene (PP) Pipe — Nom 110 mm OD (or smaller) Fusiotherm® - Faser, SDR 7.4 for use in closed (process or supply) piping systems.

C. Polypropylene (PP) Pipe — Nom 50 mm OD (or smaller) Fusiotherm® SDR 11 for use in closed (process or supply) piping systems.

The FH, FT and FTH Ratings of the firestop system are dependent on the type of pipe as summarized below.

| Pipe Type | Firestop System Ratings, hr | | | |
|-----------|-----------------------------|-----|----|-----|
| | F | FT | FH | FTH |
| A | 2 | 1 | 2 | 1 |
| B | 2 | 1 | 0 | 0 |
| C | 2 | 1/2 | 2 | 1/2 |



Hilti Firestop Systems

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

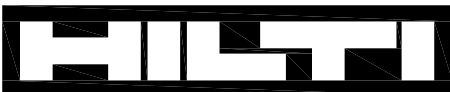
A. Fill, Void or Cavity Material* — Sealant — Min 6 mm (1/4 in.) thickness of fill material applied within annulus, flush with both surfaces of wall assembly.

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

B. Firestop Device* - Firestop Collar — Firestop collar sized to diam of penetrant 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 pipe and secured to both sides of the wall using the anchor hooks provided with the collar. The anchor hooks are to be secured to the surface of wall with min 4.8 mm (3/16 in.) diam by min 64 mm (2-1/2 in.) long steel toggle bolts or 6 mm (1/4 in.) diam by 38 mm (1-1/2 in.) long steel expansion bolts.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643N 110/4", CP 643N 90/3", 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.



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