



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

## System No. W-L-2038

F Ratings — 1 and 2 Hr (See Item 1)

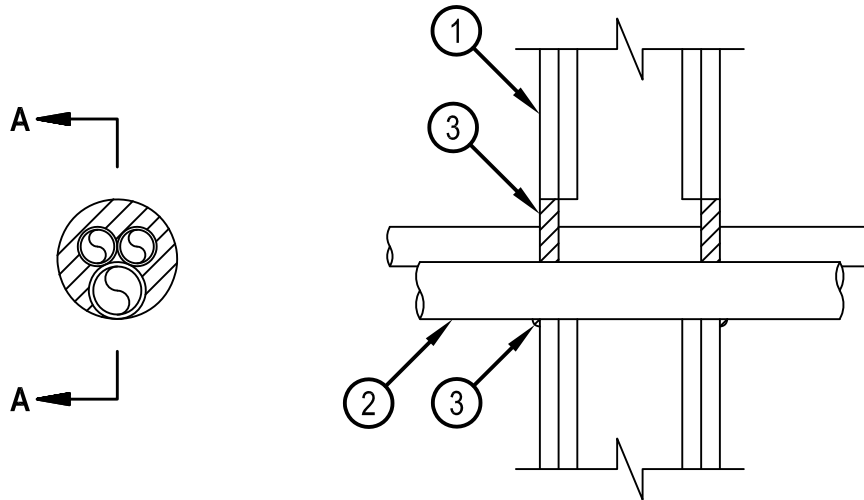
FT Rating — 0 Hr

FH Rating — 0 Hr

FTH Rating — 0 Hr



WL 2038



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 — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 51 by 102 mm (2 by 4 in.) lumber spaced 406 mm (16 in.) OC. Steel studs to be min 89 mm (3-1/2 in.) wide spaced max 610 mm (24 in.) OC.

B. Gypsum Board\* — The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 102 mm (4 in.).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants — One or more nonmetallic pipes, conduits or tubes installed concentrically or eccentrically within opening. Annular space between penetrants and periphery of opening to be min 0 mm, (point contact) to max 25 mm (1 in.). Space between penetrants shall be min 0 mm, (point contact) to max 25 mm (1 in.). Penetrants to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in open (drain, waste or vent) or closed (process or supply) or piping systems.

B. Rigid Nonmetallic Conduit++ — Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 38 mm (1-1/2 in.) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. Crosslinked Polyethylene (PEX) Tubing — Nom 25 mm (1 in.) diam (or smaller) SDR 9 PEX tubing for use in open (drain, waste or vent) or closed (process or supply) piping systems.

E. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 38 mm (1-1/2 in.) drain (or smaller) SDR 11 CPVC for use in closed (process or supply) piping systems.

IPEX INC — AquaRise

F. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 38 mm (1-1/2 in.) diam (or smaller) BLAZEMASTER® SDR13.5 CPVC for use in closed (process or supply) piping systems.



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3. Fill, Void or Cavity Material\* - Caulk or Sealant — Min 16 mm (5/8 in.) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 6 mm (1/4 in.) diam bead of caulk applied to gypsum board/penetrant interface at point contact location 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.

++ Bearing the UL Listing Mark



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