



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

## System No. W-J-2011

F Rating -- 1 Hr

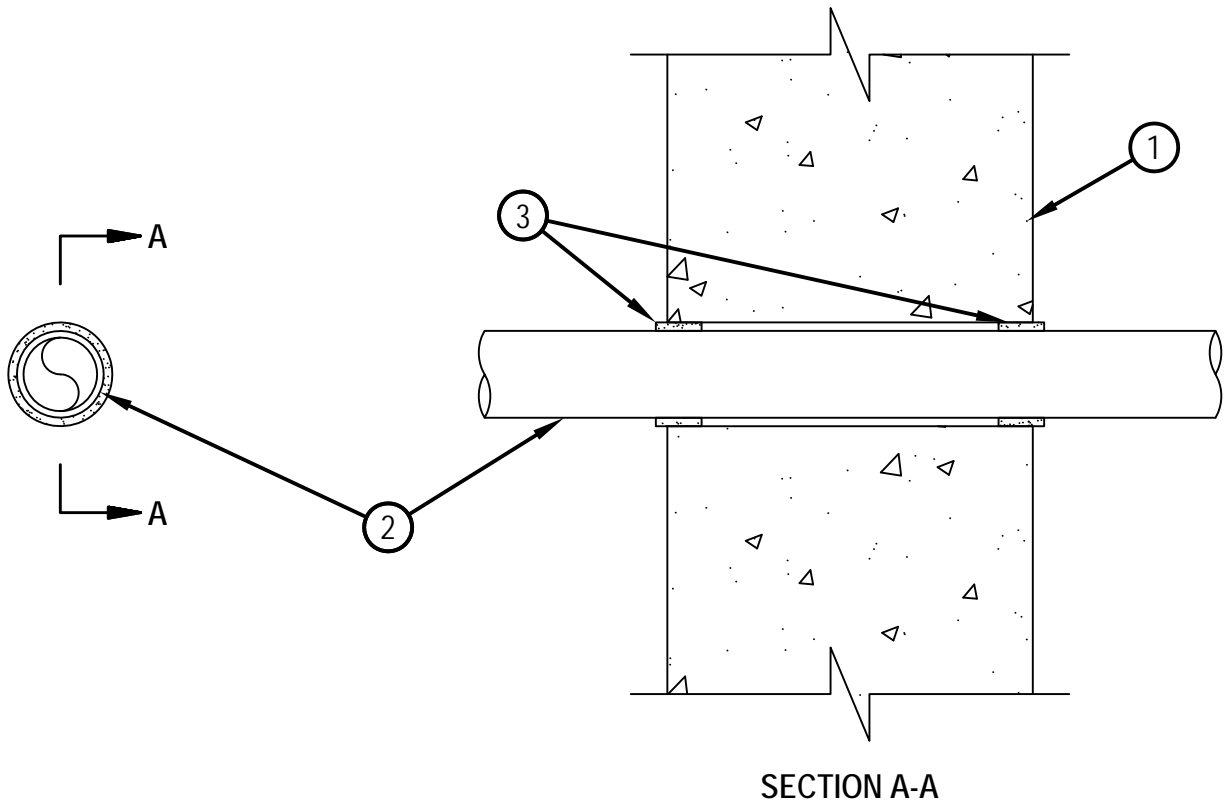
FT Ratings -- 3/4 and 1 Hr (See Item 2)

FH Rating -- 1 Hr

FTH Ratings -- 3/4 and 1 Hr (See Item 2)



WJ 2011



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 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight 1600-2400 kg/cu m (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 64 mm (2-1/4 in.)  
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant -- One nonmetallic pipe or tube to be installed within the firestop system with a nom 6 to 8 mm (3/16 to 5/16 in.) annular space. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipe or tube may be used:
  - A. Polyvinyl Chloride (PVC) Pipe -- Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in vented (drain, waste or vent) piping systems. When PVC pipe is used, the FT and FTH Ratings are 3/4 hr.
  - B. Cross Linked Polyethylene (PEX) Tubing -- Nom. 25 mm (1 in.) diam (or smaller) SDR-9 PEX tubing for use in vented (drain, waste or vent) piping systems. When PEX tubing is used, the FT and FTH Ratings are 1 hr.
3. Fill, Void or Cavity Material\* - Wrap Strip -- Nom 5 mm (3/16 in.) thick by 25 mm (1 in.) wide intumescent wrap strip. The wrap strip is wrapped once around the outer circumference of the pipe, secured with tape and slid into annular space such that the ends extend a max of 6 mm (1/4 in.) beyond the surface of the wall. Wrap strips are installed on each surface of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP648-E W25/1" Wrap Strip

\*Bearing the UL Classification Mark



**Hilti Firestop Systems**

Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.

April 25, 2005