



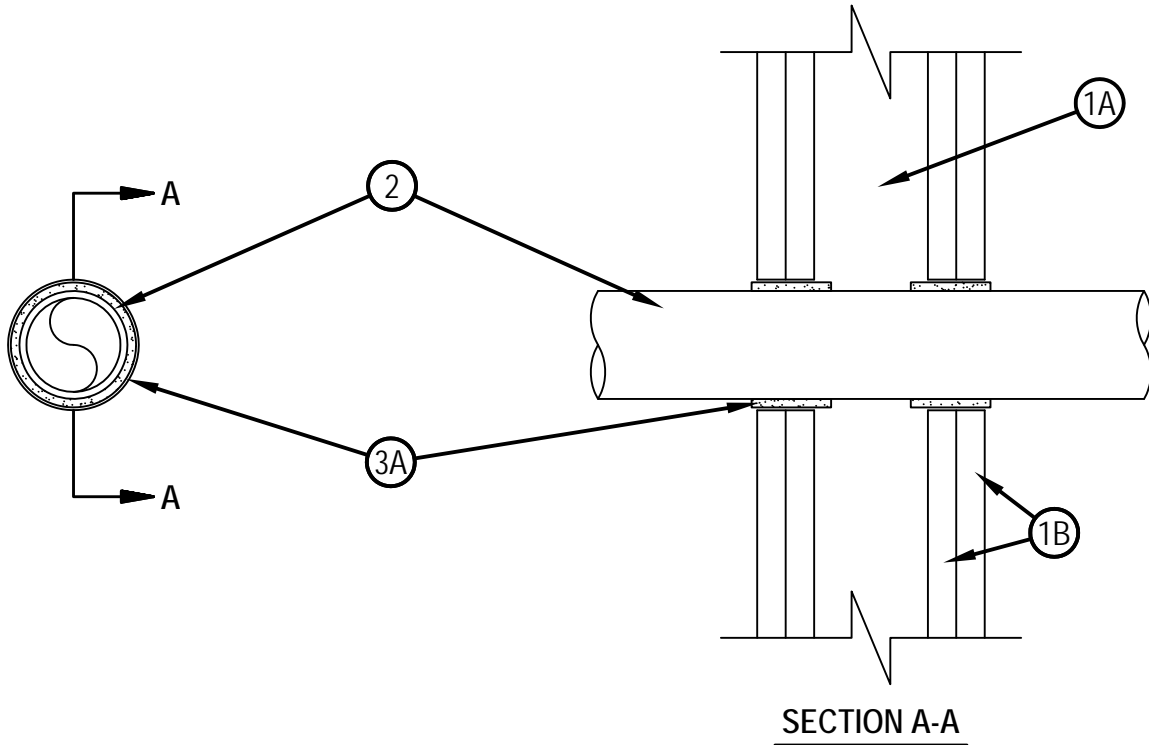
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. W-L-2020

F Rating -- 2 Hr
FT Rating -- 1 Hr
FH Rating -- 2 Hr
FTH Rating -- 1 Hr



WL 2020



System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Wall Assembly -- The 2 hr fire-rated steel stud/gypsum board wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs -- Wall framing shall 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 max 406 mm (24 in.) OC. Steel studs to consist of min 89 mm (3-1/2 in.) wide and spaced max 610 mm (24 in.) OC.
 - Gypsum Board* -- Two layers of 16 mm (5/8 in.) thick as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 83 mm (3-1/4 in.)
- Through Penetrants -- One nonmetallic pipe to be installed within the firestop system. Nom 51 mm (2 in.) diam (or smaller) Schedule 40 solid core PVC pipe for use in vented (drain, waste or vent) piping systems. A nom annular space of 6 or 13 mm (1/4 or 1/2 in.) is required within the firestop system when one or two layers of wrap strip are used, respectively. Pipe to be rigidly supported on both sides of wall assembly.
- Firestop System -- The firestop system shall consist of the following:
 - Fill, Void or Cavity Material* -- Wrap Strip - Layers of intumescent wrap strip are continuously wrapped around the pipe with ends held in place with masking or aluminum tape. Wrap strips installed such that ends are flush or extend max 3 mm (1/8 in.) beyond surface of wall. Size of wrap strip and number of layers for a given size wrap strip are shown in table below.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP648-E W25/1" or CP648-E W45/1-3/4" Firestop Wrap Strip

Product Designation	Number of Layers	Nom Wrap Strip Width mm (in.)
CP648-E W25/1"	2	25 (1)
CP648-E W45/1-3/4"	1	44 (1-3/4)

*Bearing the UL Classification Mark



Hilti Firestop Systems

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