

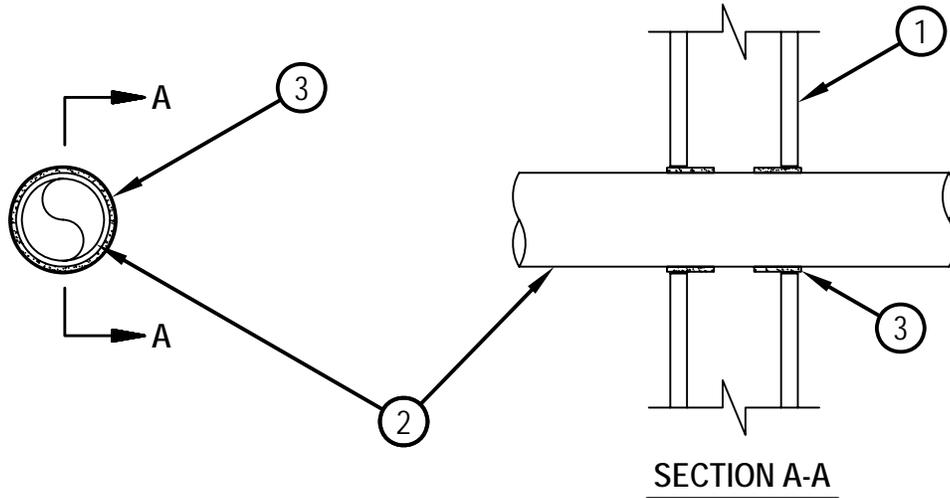


Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. W-L-2284

F Rating - 1 Hr
T Rating - 1 Hr

WL 2284



1. Wall Assembly -- The 1 hr fire-rated gypsum board/stud 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:
 - A. Studs -- Wall framing shall consist of wood studs or steel channel studs. Wood studs to consist of 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC.
 - B. Gypsum Board* -- Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 4 in.
2. Through Penetrants -- One nonmetallic pipe to be centered within the firestop system. An annular space of 3/16 to 1/4 in. is required within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - A. Polyvinyl Chloride (PVC) Pipe -- Nom 3 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 3 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Fill, Void or Cavity Material* -- Wrap Strip - Layers of intumescent wrap strip are continuously wrapped around the pipe with ends held in place with tape. Wrap strip installed such that ends protrude nom. 1/8 in. beyond both surfaces of wall. Size of wrap strip and number of layers 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	Pipe Diameter (in.)	Number of Layers	Nom. Wrap Strip Width (in.)
CP648-E-W25/1"	1-1/2 and 2	1	1
CP648-E-W45/1-3/4"	1-1/2, 2 and 3	1	1-3/4

A. Fill, Void or Cavity Material* - Wrap Strip -- (As an alternate to the wrap strip in Item 3) - One layer of intumescent wrap strip is tightly wrapped around the pipe with ends butted and held in place with integrated tape. Wrap strip installed such that ends protrude nom. 1/8 in. beyond both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC -- CP648-S-1.5" US, CP648-S-2" US, CP648-S-3" US

*Bearing the UL Classification Mark



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
April 22, 2005