



Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. W-L-2818

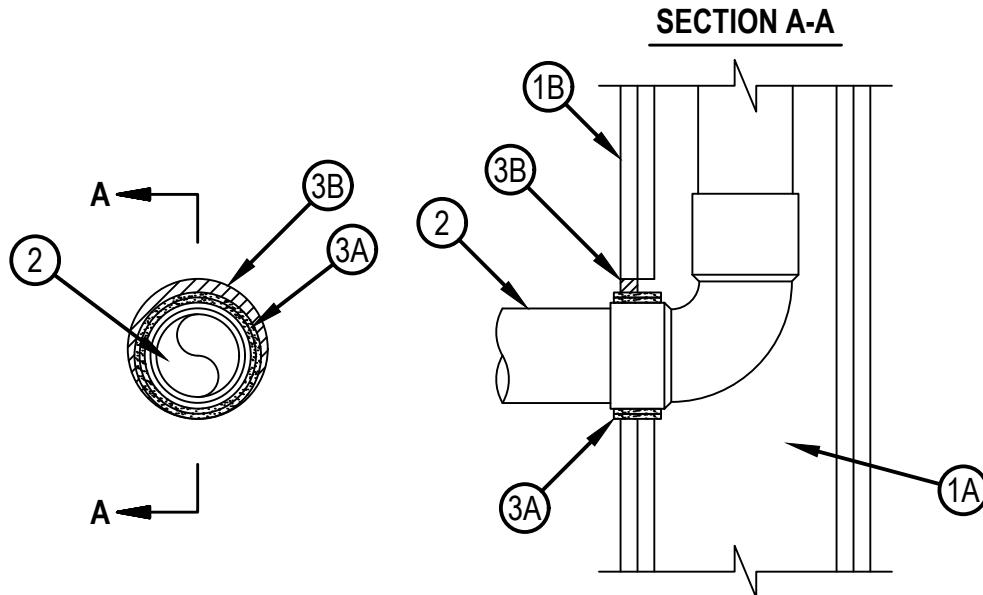
F Rating — 2 Hr

T Rating — 2 Hr

L Rating At Ambient — Less Than 1 CFM/sq ft

L Rating At 400°F — Less Than 1 CFM/sq ft

WL 2818



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

- A. Studs —Wall framing to consist of steel channel studs. Studs to be minimum 6 in. (152 mm) wide by 1-1/4 in. (32 mm) deep, fabricated from 25 MSG galv steel, spaced max 24 in. (610 mm) OC.
- B. Gypsum Board* —Two layers of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 5-1/2 in. (140 mm).

2. Through-Penetrants —One nonmetallic pipe or conduit to be installed within the firestop system. The annular space between penetrant and gypsum on penetrated side of wall shall be min 3/8 in. (9.5 mm) to max 1-1/4 in. (32 mm). Pipe installed with 90 degree fitting. Pipe or conduit to be rigidly supported within the wall cavity. The following types and sizes of nonmetallic pipes or conduits may be used:

- A. Polyvinyl Chloride (PVC) Pipe —Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- B. Rigid Nonmetallic Conduit+ —Nom 3 in. (76 mm) 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 3 in. (76 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

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

- A. Fill, Void or Cavity Material — Wrap Strip* —Two layers of 3/16 in. (5 mm) thick by 1-3/4 in. (44 mm) wide intumescent wrap strip wrapped around the penetrant and slid into annular space to be approximately flush with interior edge of the penetrated gypsum board, with ends of wrap strip butted and held in place with tape.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 648E W25/1-3/4" Firestop Wrap Strip

- B. Fill, Void or Cavity Material — Sealant* —Min 5/8 in. (16 mm) thickness of sealant applied within the annular space flush with penetrated side of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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



Hilti Firestop Systems

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