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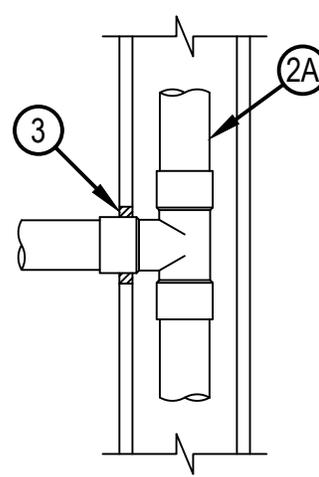
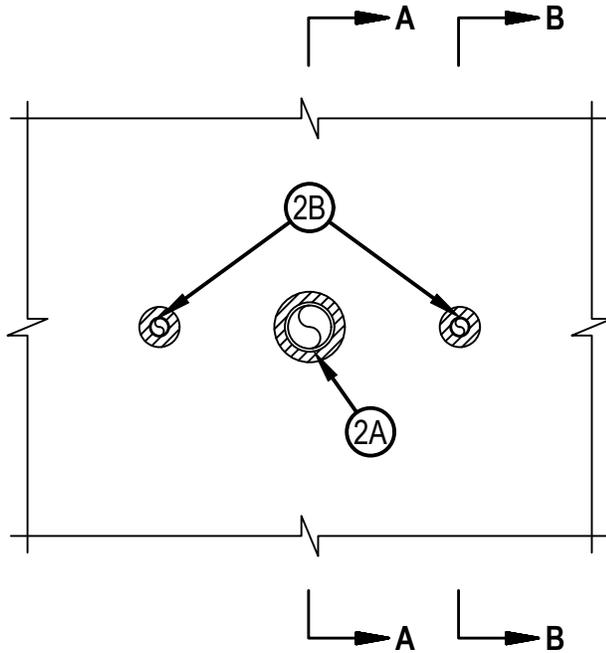
## System No. W-L-2770

F Rating — 1 Hr  
FT Rating — 1/2 Hr  
FH Rating — 0 Hr  
FTH Rating — 0 Hr

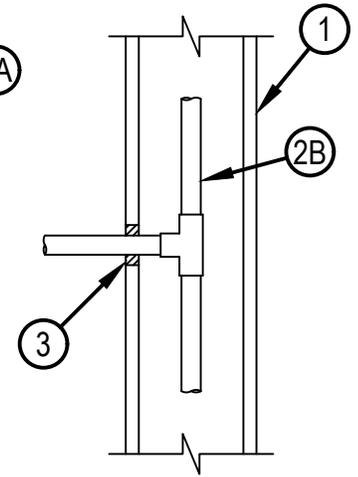
L Rating at Ambient — Less than 5.1 L/s/m<sup>2</sup>  
L Rating at 204°C — 5.1 L/s/m<sup>2</sup>



WL 2770



**SECTION A-A**



**SECTION B-B**

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

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, 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 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 92 mm (3-5/8 in.) wide and spaced max 610 mm (24 in.) OC.
    - B. Gypsum Board\* — One layer of nom 16 mm (5/8 in.) thick gypsum board, as specified in the individual Wall and Partition Design. Diam of openings shall be max 89 mm (3-1/2 in.) except for nom 19 mm (3/4 in.) (and smaller) penetrants, diam of opening to be max 38 mm (1-1/2 in.).
  2. Penetrants — One nonmetallic pipe or tube per opening, for use in closed (process or supply) or vented (drain, waste or vent) piping systems, installed within stud cavity and connected to tee. Pipe, tee or tube penetrating wall on one side to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, tee or tube and the edge of the opening shall be min 6 mm (1/4 in.) to max 22 mm (7/8 in.). The following types and sizes of nonmetallic pipes or tubes may be used:
    - A. Polyvinyl Chloride (PVC) Pipe — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 solid core PVC pipe with PVC tee.
    - A1. Polyvinyl Chloride-XFR (PVC-XFR) Pipe — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 solid core PVC-XFR pipe with PVC-XFR tee.
    - B. Crosslinked Polyethylene (PEX) Tubing — Nom 19 mm (3/4 in.) diam (or smaller) SDR 9 PEX tubing with brass or copper tees.
  3. Fill, Void or Cavity Material\* - Sealant — Min 16 mm (5/8 in.) thickness of fill material applied within the annulus, flush with surface of wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Firestop Sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



**Hilti Firestop Systems**

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