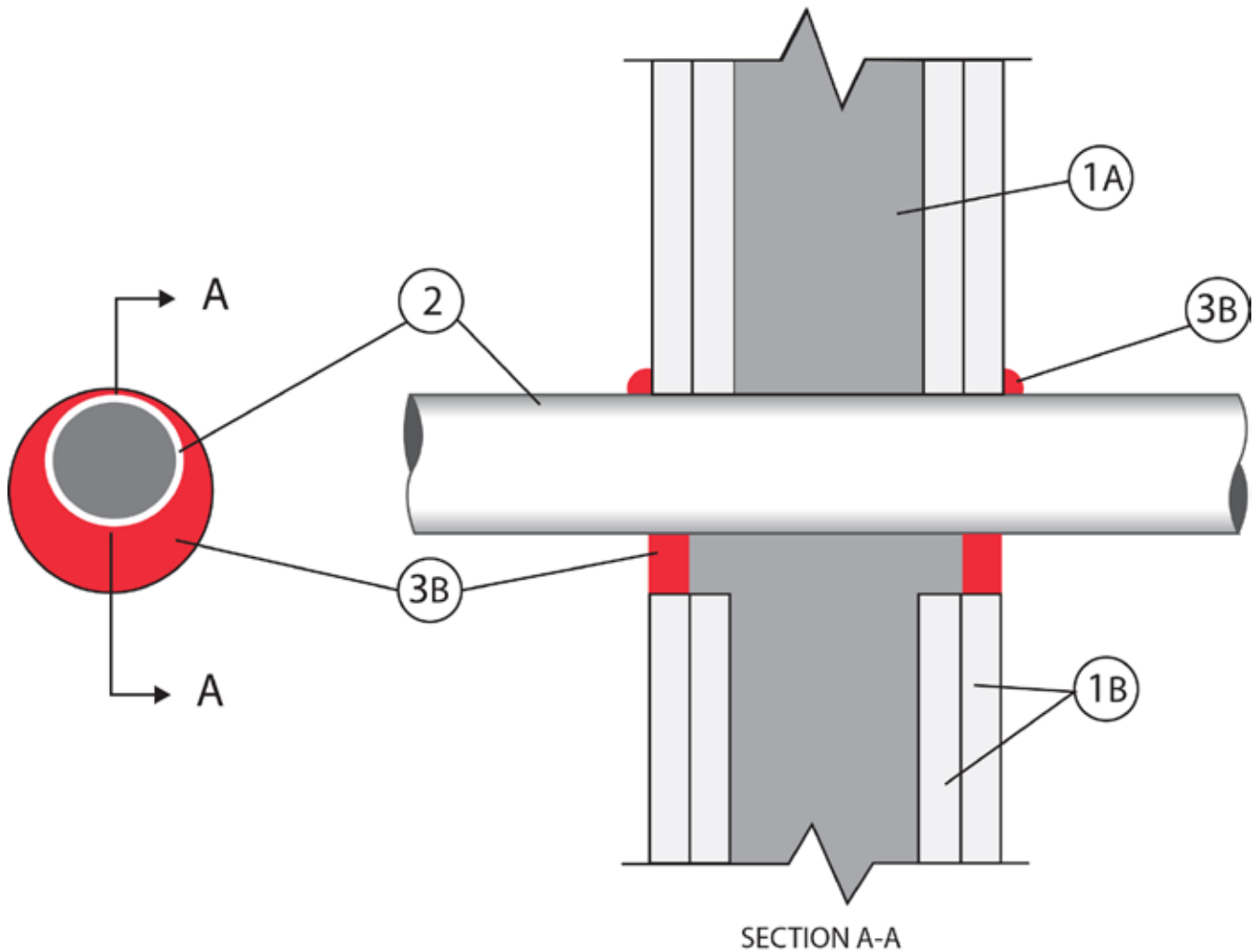


## System No. W-L-2539

October 20, 2008

**F Ratings – 1 and 2 Hr (See Item 1)**

**T Ratings – 1 and 2 Hr (See Item 1)**



**1. Wall Assembly – The 1 or 2 hour 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 may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.**

**B. Gypsum Board\* – 5/8 in.(16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Maximum diameter of opening is 3-5/8 in. (92 mm).**

***The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.***

**2. Nonmetallic Pipe — One non-metallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (point contact) to max 1-1/4 in (32 mm). Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of non-metallic pipes may be used:**

**A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core 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 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.**

**C. Electrical Non-Metallic Tubing (ENT) — Nom 2 in. (51 mm) diam (or smaller) PVC tubing installed in accordance with Article 331 of the National Electrical Code (NFPA 70).**

**D. Cross Linked Polyethylene (PEX) Tubing — Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.**

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

**A. Packing Material — (Optional, Not Shown) - For 2 hr wall assemblies, foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from each surface of the wall to accommodate the required thickness of fill material.**

**B. Fill Void or Cavity Materials\* — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus on both surfaces of the wall assembly. A min 1/2 in. (13 mm) diam bead of caulk shall be applied to the pipe/gypsum board interface at the point contact location on both sides of wall.**

**FLAME TECH INC — Firestop-814+**

**\*Bearing the UL Classification Mark**