# System No. W-L-2145

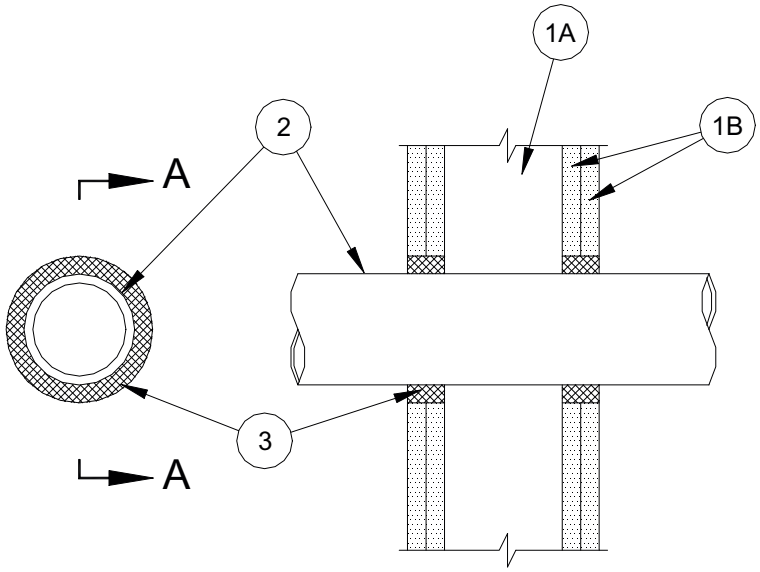
Classified by
Underwriters Laboratories Inc.
to ASTM E-814, UL1479, UBC 7-5
and CAN4/ULC-S115M

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

**T Ratings - 0, 1-1/2 and 2 Hr (See Item 2)**

**L Rating At Ambient – Less Than 1 CFM / Sq. Ft.**

**L Rating At 400°F – 5 CFM / Sq. Ft.**




SECTION A-A

1. **Wall Assembly** - The 1 or 2 Hr fire rated gypsum wallboard / 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. **Wallboard, Gypsum*** - Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm).

   **The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Through-Penetrant** - One nonmetallic pipe, conduit or tubing to be centered within the firestop system. A nom annular space of 5/16 in. (8 mm) is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:

   A. **Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. (51 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. **Chlorinated Polyvinyl Chloride (CPVC) Pipe‡** - Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Rigid Nonmetallic Conduit+** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

D. **Crosslinked Polyethylene (PEX) Tubing‡** - Nom 2 in. (51 mm) diam (or smaller) SDR 7.3 PEX tubing or nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.

E. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

F. **Electrical Nonmetallic Tubing (ENT)+ -** Nom 2 in. (51 mm) diam (or smaller) corrugated-wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride (PVC) and installed in accordance with Article 331 of the National Electrical Code (NFPA No. 70).

See **Electrical Nonmetallic Tubing** (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.

G. **Flexible Nonmetallic Conduit, Liquid-Tight (FNMC)+ -** Nom 2 in. (51 mm) diam (or smaller) corrugated-wall flexible nonmetallic conduit, liquid-tight (FNMC) constructed of polyvinyl chloride (PVC) and installed in accordance with Article 351 of the National Electrical Code (NFPA No. 70).

See **Flexible Nonmetallic Conduit, Liquid-Tight** (DXOQ) category in the Electrical Construction Materials Directory for names of manufacturers.

**The T Rating is 0 Hr and 1-1/2 Hr for 1 and 2 Hr rated assemblies, respectively, for Penetrants A, B and C. The T Rating is 0 Hr and 2 Hr for 1 and 2 Hr rated assemblies, respectively, for Penetrants D, F, and G. The T Rating is 0 Hr for Penetrant E.**

3. **Fill, Void or Cavity Material* - Caulk** - Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thicknesses of fill material for 1 and 2 Hr rated assemblies, respectively, applied within the annulus flush with both surfaces of wall.

**NUCO INC.** - •Self Seal GG-266

* Bearing the UL Classification Mark
\+ Bearing the UL Listing Mark

**‡ The through-penetrant is not to be stressed beyond the permissible bending deflection for the intended operating temperature as established by the pipe manufacturer.**

**• In addition to the standardized environmental exposures, Self Seal GG-266 was also exposed to supplemental environmental exposures of an Industrial Atmosphere ($CO_2/SO_2$) and Combination Wet, Freeze and Dry Cycling.**