

# System No. C-AJ-2207

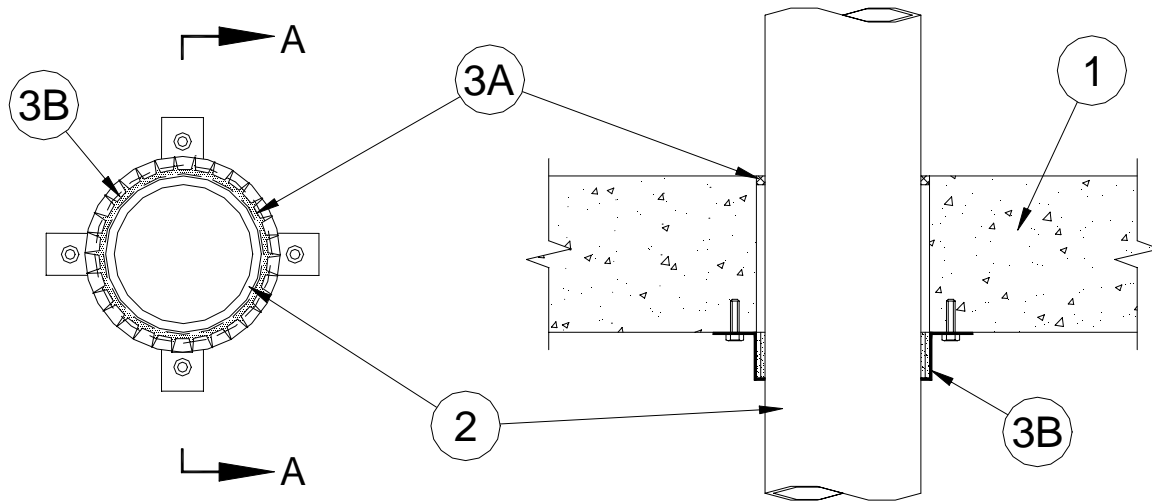


F Ratings - 2 and 3 Hr (See Item 2)

T Ratings - 1/4, 2 and 3 Hr (See Item 2)

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

L Rating At 400°F – 3 CFM / Sq. Ft.



SECTION A-A

1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100 - 150 pcf or 1600 - 2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 5 in. (127 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** - One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the edge of the opening shall be min 1/8 in. (3.2 mm) to max 1/4 in. (6.4 mm). Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types of pipe or conduit may be used:

- A. **Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) 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 4 in. (102 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- C. **Rigid Nonmetallic Conduit+** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

*The basic Standard used to evaluate this Firestop System is ANSI/UL 1479 (ASTM E814)*

- D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. (102 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.
- E. **Fire Retardant Polypropylene (FRPP) Pipe** ‡ - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- F. **Polyvinyl Chloride-XFR (PVC 15-50 XFR) Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core PVC-XFR pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- G. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** ‡ - Nom 3 in. (76 mm) diam (or smaller) SDR11 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**IPEX INC.** – AquaRise

**F and T Ratings are 2 Hr for PVC 15-50 XFR pipes. T Rating for Item G is 1/4 Hr.**

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

- A. **Fill, Void or Cavity Material\* - Sealant** - Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with the top surface of floor or with both sides of wall assembly.

**NUCO INC.** - Self Seal GG-200 or •Self Seal GG-266

- B. **Firestop Device\* - Collar** - Collar to be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around pipe and secured to underside of floor or to both sides of wall with min 1/4 in. (6.4 mm) diam by min 1-1/4 in. (32 mm) long steel concrete anchors in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. Min of two, three or four concrete anchors, symmetrically located, for nom 1-1/2 (38 mm) and 2 in. (51 mm) diam, nom 3 in. (76 mm) diam and nom 4 in. (102 mm) diam pipes, respectively.

**NUCO INC.** - •Self Seal Type-SSC

\* 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 and Type-SSC were also exposed to supplemental environmental exposures of an Industrial Atmosphere (CO<sub>2</sub>/SO<sub>2</sub>) and Combination Wet, Freeze and Dry Cycling.