

System No. C-AJ-2315



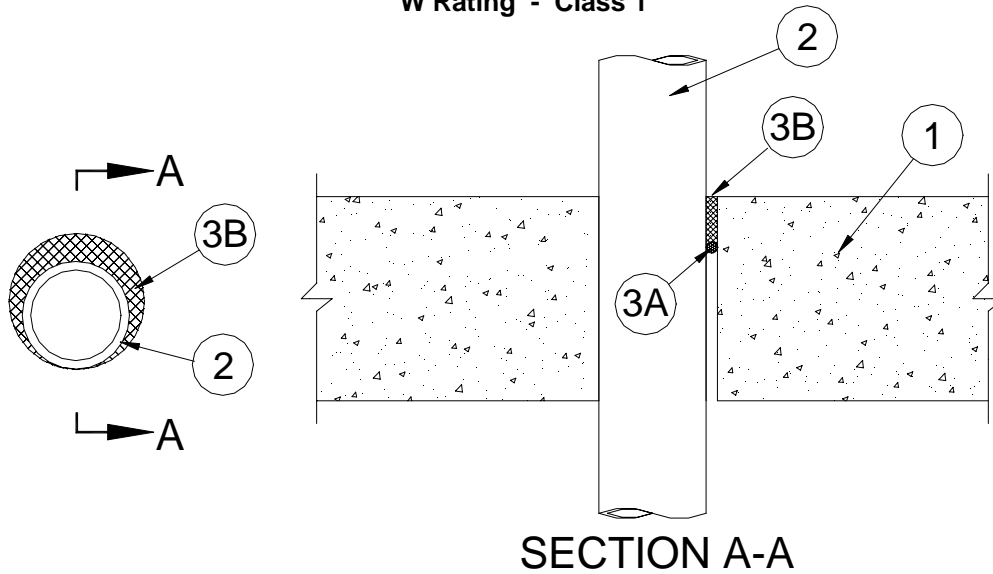
F Rating - 2 Hr

T Ratings - 0 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.

W Rating - Class 1



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/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. The opening shall be 1 in. (25 mm) larger than the nom diam of penetrant.

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

- 1A. **Steel Sleeve – (Optional, Not Shown)** – Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall assembly. The nom size of sleeve shall be 1 in. (25 mm) larger than the nom size of through-penetrant.
2. **Through-Penetrant** - One nonmetallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the penetrant and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 5/8 in. (16 mm). When steel sleeve is used, the annular space between the penetrant and the sleeve shall be a min of 1/4 in. (6 mm) to a max of 3/8 in. (10 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or 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 or SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

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

- C. **Rigid Nonmetallic Conduit+** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
- D. **Crosslinked Polyethylene (PEX) Tubing‡** - Nom 2 in. diam (62.9 mm OD) (or smaller) SDR 7.3 or SDR 9 PEX tubing for use in closed (process or supply) piping systems.
- E. **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 the National Electrical Code (NFPA No. 70).

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

- F. **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 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.

- G. **Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- H. **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.

T Rating is 0 Hr when steel sleeve is used. When steel sleeve is not used, T Rating is 2 Hr for penetrants A, B, C, D, E, and F. T Rating is 0 Hr for penetrants G and H.

- 3. **Firestop System** - The details of the firestop system shall be as follows:

- A. **Packing Material (Optional)** – Nom 3/8 in. (10 mm) diam polyethylene backer rod or min 3/8 in. (10 mm) thickness of mineral wool batt insulation firmly packed into opening as a permanent form and recessed from top surface of floor or both surfaces wall as required to accommodate the required thickness of fill material.
- B. **Fill, Void or Cavity Material* - Caulk** - Min 2 in. (51 mm) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces wall. An additional 1/4 in. (6 mm) bead of fill material applied at the penetrant / concrete interface at the point contact location.

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 (CO₂/SO₂) and Combination Wet, Freeze and Dry Cycling.**

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