

System No. C-AJ-5092



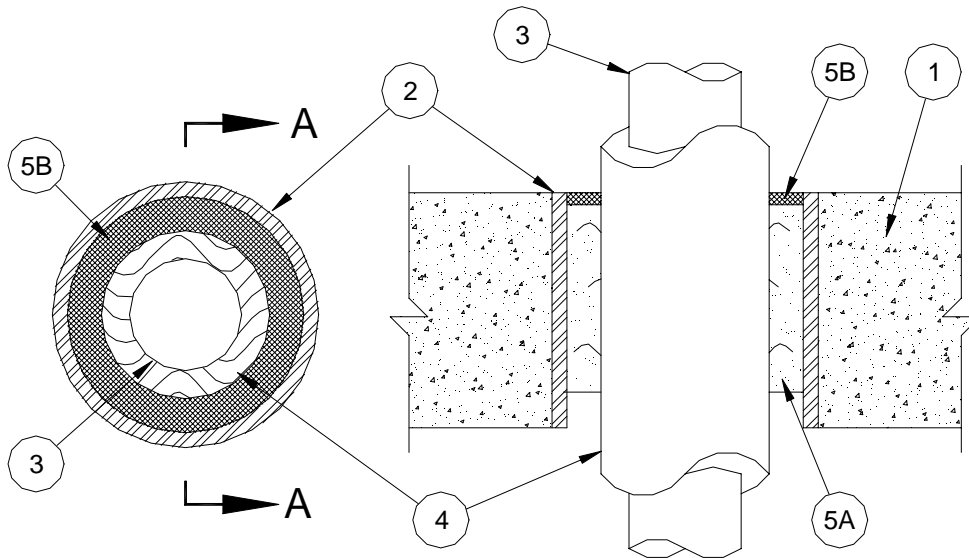
F Rating - 3 Hr

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

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

L Rating At 400°F – 3 CFM / Sq. Ft.

W Rating - Class 1 (See Item 4A)



SECTION A-A

1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced light-weight or normal weight (100 - 150 pcf or 1600 – 2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. (152 mm).

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

2. **Sleeves (Optional)** - The following sleeves may be used:

- A. **Metallic Sleeve** - Nom 6 in. (152 mm) diam (or smaller) steel Schedule 40 (or heavier) pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces. **T Rating is 1 Hr when metallic sleeve is used.**
- B. **Nonmetallic Sleeve** - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces. **T Rating is 1-1/2 Hr when PVC sleeve or no sleeve is used.**

3. **Through-Penetrants** - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types of pipe or tubing may be used:
- A. **Steel Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. **Copper Tubing** - Nom 3 in. (76 mm) diam (or smaller) Type M (or heavier) copper tubing.

4. **Pipe Covering*** - Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 7.0 pcf or 112 kg/m³) mineral fiber units with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. A min annular space of 11/32 in. (9 mm) is required within the firestop system.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

- 4A. **PVC Jacket+ - (Optional, Not Shown)** - An additional PVC jacketing, supplied in sheet form, shall be tightly wrapped around the all service jacket on the pipe covering with the longitudinal seam continuously sealed using the adhesive supplied with the jacket. The jacket is to be nom 48 in. (1.22 m) wide by nom 20 or 30 mil (0.5 or 0.8 mm) thick. The jacket shall extend downward into and / or through the opening from a point 36 to 40 in. (0.91 to 1.02 m) above the top surface of the floor assembly. **The PVC jacket must be used for the W Rating to apply. The W Rating applies only with floor assemblies.**

See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component plastic material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

5. **Firestop System** - The firestop system shall consist of the following:
- A. **Packing Material** - Min 3-3/4 in. (95 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form so that the width of the wool is compressed at least 50 percent. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
 - B. **Fill, Void or Cavity Materials* - Sealant** - Min 1/4 in. (6 mm) thickness of sealant applied within the annulus, flush with the top surface of floor or with both surfaces of wall.

NUCO INC. - Self Seal GG-200 (floors or walls) or Self Seal SL-100 (floors only)

* Bearing the UL Classification Mark

+ Bearing the UL Recognized Component Mark

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