

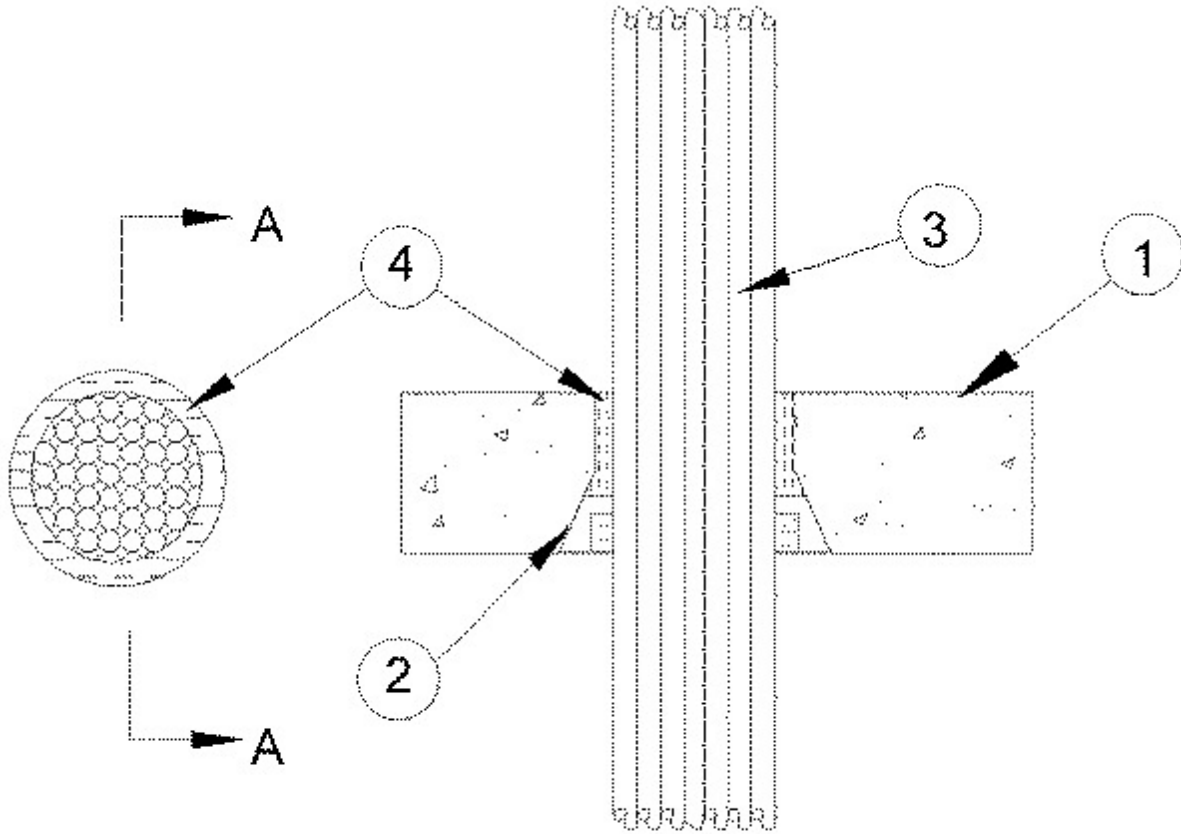


System No. F-A-3031

February 02, 2006

F Ratings — 2 and 3 Hr (See Item 1)

T Ratings — 0 and 3/4 Hr (See Item 1)



Section A-A

1. **Floor Assembly** — Min 2-1/2 in. (64 mm) or min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

The F Rating of the firestop system is 2 and 3 Hr for min 2-1/2 in. (64 mm) and min 4-1/2 in. (114 mm) thick concrete, respectively. The T Rating of the firestop system is 0 and 3/4 Hr for min 2-1/2 in. (64 mm) and min 4-1/2 in. (114 mm) thick concrete, respectively.

2. **Firestop Device*** — Cast in place firestop device permanently embedded during concrete placement in accordance with accompanying installation instructions. The device may project up to a max of 3-1/2 in. above top surface of floor or trimmed flush with top surface of floor in min 4-1/2 in. (114 mm) floors. The device shall extend min 1-1/2 in. (38 mm) up to a max of 5-1/2 in. (140 mm) above top surface of floor in min 2-1/2 in. (64 mm) floors. The devices are provided in two sizes, nom 2-1/2 in. (64 mm) and nom 4 in. (102 mm) sizes.

RECTORSEAL — Biostop Cast -in- Place Firestop Device

3. **Cables** — Max 4 in. (102 mm) diam cable bundle for nom 4 in. (102 mm) device. Max 2-1/2 in. (64 mm) diam cable bundle for nom 2-1/2 in. (64 mm) device. Annular space between cables and periphery of opening or sleeve shall be min of 1/2 in. (123 mm). Cables to be rigidly supported on both sides of floor assembly. Any combination of the following types and sizes of cable may be used:

- A. Max 300 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
- B. Max 1/C No. 4/0 AWG (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) or PVC jacket.
- C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
- D. Max 3/C No. 3/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.
- E. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
- F. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.
- G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.
- H. RG/U coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket.
- I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.
- J. Max three conductor No. 12 AWG (or smaller) MC (BX) copper cable with polyvinyl chloride insulation and jacket materials.
- K. **Through Penetrating Product***-Any cables, **Armored Cable+** or **Metal Clad Cable+** currently Classified under the **Through Penetrating Product** category.

See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturers

4. **Packing Material** — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into the annular space as a permanent form. The packing material is to be installed flush with the top surface of the floor in min 4-1/2 in. (114 mm) floor. In min 2-1/2 in. (64 mm) floor, the firestop device (Item 2) shall extend min 2 in. (51 mm) above the top surface of floor and the packing material is to be recessed 1-1/2 in. (38 mm) below the top surface of the floor and extend upward a min of 1-1/2 in. (38 mm) above the top surface of the floor.

*Bearing the UL Classification Mark