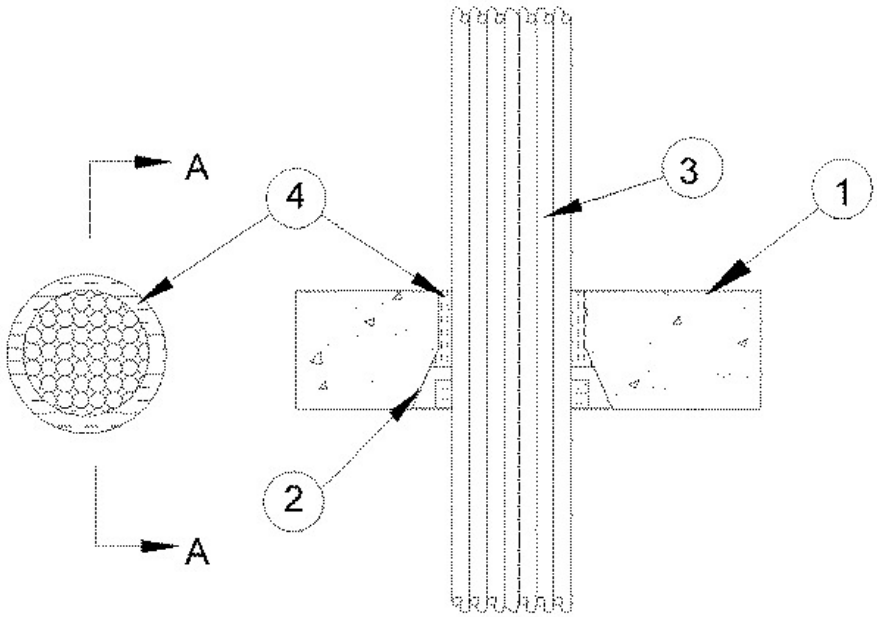
F Ratings — 2 and 3 Hr (See Item 1)
T Ratings — 0 and 3/4 Hr (See Item 1)



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~~1~~50 pcf or 1600-2400 kg/m^3) 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 or Rectorseal 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/m^3) 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.

*,+ Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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