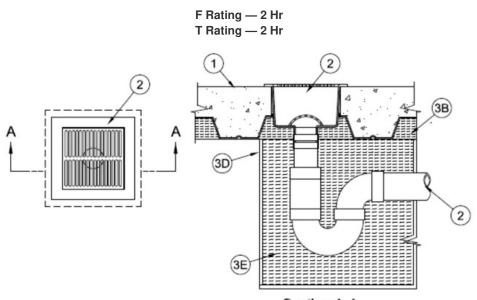
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Section A-A

 Floor Assembly — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below: A. Concrete — Min 2 in. (51 mm) thick reinforced lightweight or normal weight (100<u>150</u> pcf or 1600-2400 kg/m<sup>3</sup>) concrete.

B. Steel Floor and Form Units\* — Composite or non-composite max 3 in. (76 mm) deep galv fluted units as specified in the individual Floor-Ceiling Design. Max diam of opening is 1 in (25 mm) larger in size than floor sink body.

1A. **Floor Assembly** — (Not shown) As an alternate to a steel floor assembly, minimum 5-1/2 in (140 mm) thick reinforced lightweight or normal weight (100-<u>150</u> pcf or 1600-2400 kg/m<sup>3</sup>) concrete floor.

2. **Through-Penetrant** — One metallic pipe and floor sink assembly installed within the firestop system. Floor sink may be cast into or placed into floor assembly. Maximum size of floor sink is 12 by 12 in. (305 by 305 mm) with a max depth of 6 in. (152 mm). Penetrant to be rigidly supported on bottom side of floor assembly. The following types and sizes of metallic pipes may be used in conjunction with the floor sink:

A. Steel Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

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

A. Fill, Void or Cavity Materials \* - Caulk — (Not Shown) - Required for non-cast in sink (Item 2). Min 1/2 in. (13 mm) thickness of caulk applied within annulus, flush with top of floor assembly. RECTORSEAL — Metacaulk 835+, Biostop 100/200, FlameSafe FS4000

B. **Forming Material\*** — Min 4 pcf (64 kg/m<sup>3</sup>) density mineral wool batt insulation cut to a min length of 42 in. (1.07 m) and to the shape of the flutes and compressed 33 percent in thickness, installed into flutes above composite sheet (Item 3C). Mineral wool to extend a min. 3 in (76 mm) beyond edges of composite sheet (Item 3C). Mineral wool not required for a minimum 5-1/2 in (140 mm) thick reinforced lightweight or normal weight (100-<u>150</u> pcf or 1600-2400 kg/m<sup>3</sup>) concrete floor. If floor drain is placed into opening, tightly pack mineral wool into any voids around drain body flush with bottom side of steel form unit.

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B1. Forming Material\*-Plugs — (Not Shown) As an alternate to the forming material (Item 3A), mineral wool plugs

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preformed to the shape of the fluted floor units may be used within the flutes and extend a min. 3 in (76 mm) beyond edges of composite sheet. Plugs shall be friction fitted to completely fill the flutes. **ROCK WOOL MANUFACTURING CO** — Delta Deck Plugs

C. F ill, Void or Cavity Materials\* — Composite Sheet — (Optional, Not Shown) — Rigid aluminum foil-faced intumescent sheet with steel mesh and galv steel sheet backer. Sheet cut to a max 36 by 36 in. (914 by 914 mm). Sheet positioned, on bottom side of floor, directly below recessed portion of concrete. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing against floor) and secured to floor surface with min 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long masonry type anchors. Max spacing of fasteners not to exceed. 9 in. (229 mm) OC with additional fasteners located on each side of butted seams or slits made to permit installation of the sheet around the through penetrant. **RECTORSEAL** — Metacaulk Composite Sheet, Biostop Composite Sheet, FlameSafe Composite Sheet

D. Fill, Void or Cavity Materials\* — Composite Sheet — Rigid aluminum foil-faced intumescent sheet with steel mesh and galv steel sheet backer. Sheet assembled as a min 11 by 11 in. (280 by 280 mm) box to completely surround the penetrant on the underside of the assembly. One side of box to be left open to allow penetrant to exit. Sheet bent with a minimum 1/2 in. (13 mm) flange for securing composite sheet to floor (Item 1B). As an option, 1 by 1 in. (25 by 25 mm) No. 20 gauge steel angles may be used to secure composite sheet to floor. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing toward inside of box) and secured to floor with min 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long masonry type anchors. Max spacing of fasteners not to exceed 9in. (229 mm) OC.

E. **Forming Material\*** — Min 4 pcf (64 kg/m<sup>3</sup>) density mineral wool batt insulation inserted into enclosure to completely surround the penetrant and fill the enclosure. The forming material is to be compressed 33 percent in thickness and installed into cavity of enclosure.

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\*,+ 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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