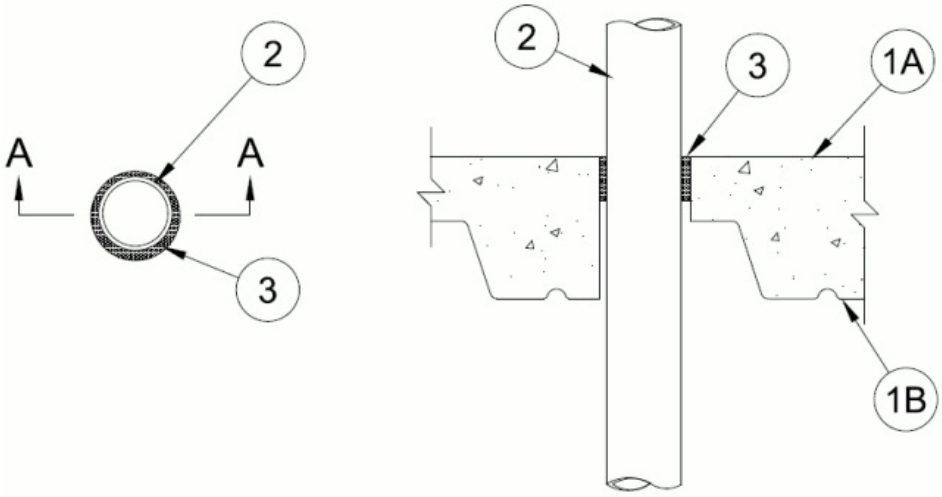
F Rating — 2 Hr
FT Ratings — 0, 1/4 and 1 Hr (See Item 2)
FH Ratings — 0 and 2 Hr (See Item 2)
FTH Rating — 0 Hr



Section A-A

System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **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 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100~~-~~150 pcf or 1600-2400 kg/m^3) concrete.

B. **Steel Floor and Form Units* —** Composite or non-composite min 3 in. (76 mm) deep galv fluted units as specified in the individual Floor -Ceiling Design. For nom 1 in. (25 mm) diam (or smaller) penetrants, the diam of opening shall be 1-3/4 in. (44 mm) larger than the outer diam of penetrant. For penetrants greater than nom 1 in. (25 mm) diam, the diam of opening shall be 1 in. (25 mm) larger than the outer diam of penetrant.

1A. **Floor Assembly —** As an alternate to Item 1, min 5-1/2 in. (140 mm) thick reinforced lightweight or normal weight (100~~-~~150 pcf or 1600-2400 kg/m^3) concrete. For nom 1 in. (25 mm) diam (or smaller) penetrants, the diam of opening shall be 1-3/4 in. (44 mm) larger than the outer diam of penetrant. For penetrants greater than nom 1 in. (25 mm) diam, the diam of opening shall be 1 in. (25 mm) larger than the outer diam of penetrant.

2. **Nonmetallic Pipes —** One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. The annular space between the pipe and periphery of opening shall be min 1/4 in. (6 mm). Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipe may be used:

A. **Polypropylene (PP) Pipe —** Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Greenpipe SDR 7.4 PP-R pipe for use in closed (process or supply) or vented (drain, waste and vent) piping systems.

B. **Polypropylene (PP) Pipe —** Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Greenpipe SDR 11 PP-R pipe for use in closed (process or supply) or vented (drain, waste and vent) piping systems.

C. **Polypropylene (PP) Pipe —** Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Bluepipe SDR 11 PP-R pipe for use in closed (process or supply) or vented (drain, waste and vent) piping systems.

The FT Rating for the firestop system is 0 hr except that when nom 1 in. (32 mm OD) Blue Pipe is used, the FT Rating is 1 hr; when nom 2 in. (63 mm OD) Blue Pipe is used, the FT Rating is 1/4 hr; when SDR 7.4 Green Pipe is used, the FT Rating is 1/4 hr.

The FH Rating for the firestop system is 0 hr except that when nom 1 in. (32 mm OD) SDR 11 Green Pipe is used, the FH Rating is 2 hr.

3. **Fill, Void or Cavity Material* — Sealant —** Min 2 in. (51 mm) thickness of sealant applied within the annulus, flush with top surface of floor.

RECTORSEAL — Metacaulk 1000, Biostop 500+, FlameSafe 1900, Metacaulk MC 150+, Biostop BF 150+

*,+ 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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