



XHEZ.F-A-2175 Through-penetration Firestop Systems

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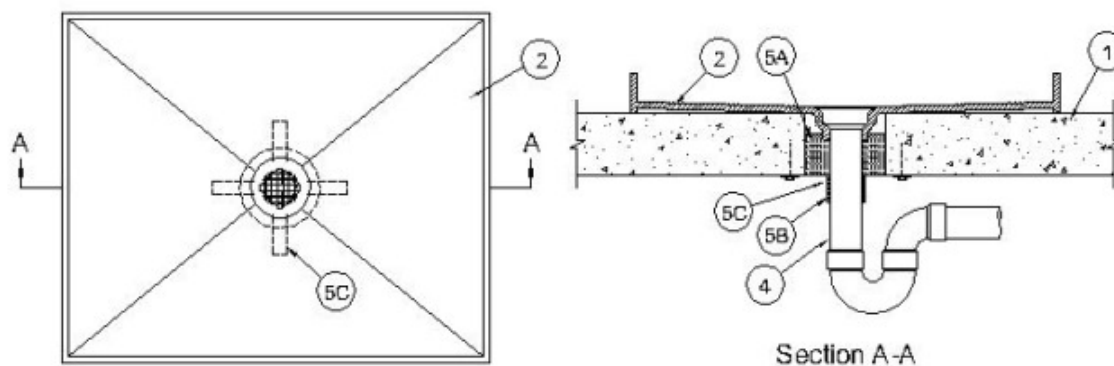
See General Information for Through-penetration Firestop Systems

System No. F-A-2175

April 18, 2007

F Rating — 2 Hr

T Rating — 2 Hr



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Max diam of opening is 6 in. (152 mm).

2. **Plastic Plumbing Fixtures+ - Shower Base Receptor** — One-piece molded nonmetallic shower base receptor with stainless steel drain plate. Shower base receptor to be installed in accordance with the manufacturer's instructions.

TILE-REDI LTD — Model 3360L, 3360R, 37NEO, 3737, 4837, 4837ADA, 4837MB or 4848

3. **Tile** — (Not Shown) - Ceramic or stone tile applied to shower pan floor with epoxy adhesive in accordance with shower base receptor installation instructions.

4. **Nonmetallic Pipe** — Nom 2 in. (51 mm) diam Schedule 40 solid or cellular core PVC pipe solvent welded into drain in the bottom of the shower base receptor and centered in the floor opening.

5. **Firestop System** — The details of the firestop system shall be as follows:

A. **Packing Material** — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly-packed into annular space as a permanent form, flush with bottom surface of concrete floor.

B. **Fill, Void or Cavity Materials* - Wrap Strip** — Nom 1/8 in. (3.2 mm) thick intumescent material supplied in 2 in. (51 mm) wide strips. Single layer of wrap strip tightly wrapped around nonmetallic drain pipe (Item 4) with a butted seam and with the top edge of the wrap strip abutting the packing material. Wrap strip layer temporarily held in position using tape.

3M COMPANY — Ultra GS

C. **Steel Collar** — Nom 2 in. (51 mm) deep collar with 1-1/4 in. (32 mm) wide by 2 in. (51 mm) long anchor tabs and tabs to retain wrap strip layer. Coils of precut 0.016 in. (0.41 mm) thick (28 gauge) galv sheet steel available from wrap strip manufacturer. Steel collar, with anchor tabs bent outward 90 deg, wrapped tightly around wrap strip with min 1 in. (25 mm) overlap at seam. Anchor tabs to be pressed tightly against bottom of packing material, and collar to be compressed around wrap strip using a min 1/2 in. (13 mm) wide stainless steel clamp at the collar midheight. Collar to be secured to underside of concrete floor with steel concrete screws with min 1-1/4 in. (32 mm) diam steel washers in conjunction with steel extension straps. Hanger tab extension straps to be fabricated from min 0.022 in. (0.6 mm) thick galv sheet steel. Taper straps from 1/4 in. (6 mm) wide to 1 in. (25 mm) wide with sufficient length to allow 1-1/2 to 2 in. (38 to 51 mm) lap onto floor. Straps secured to collar by inserting min 1 in. (25 mm) length of 1/4 in. (6 mm) wide end into hole on mounting tab and bending 180 degrees. Min of four anchor screws, symmetrically located, are required.

*Bearing the UL Classification Mark

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Questions?

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