XHEZ.F-A-3052
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. F-A-3052

August 19, 2009

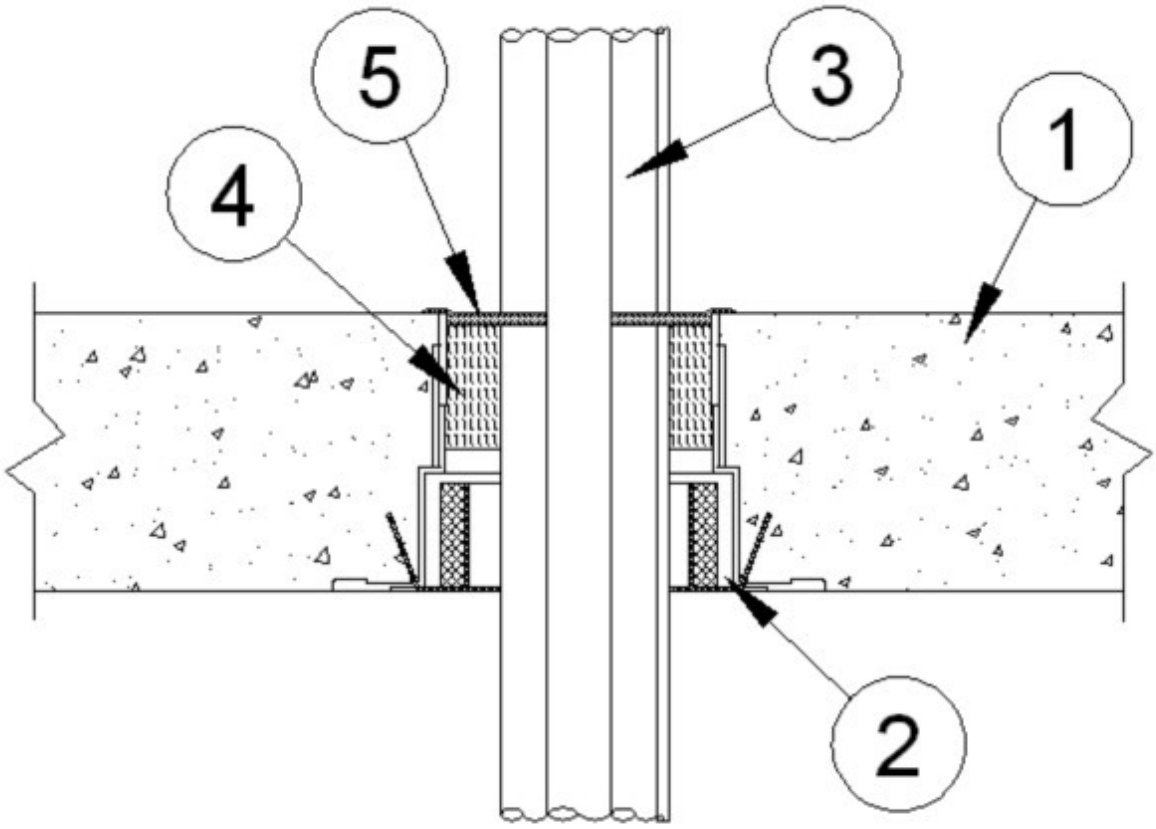
F Rating — 3 Hr

T Rating — 1/4 Hr

L Rating At Ambient — Less Than 1 CFM/sq ft

L Rating At 400°F — Less Than 1 CFM/sq ft

W Rating — Class 1



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete.

2. **Firestop Device* —** Cast in place firestop device permanently embedded during concrete placement in accordance with accompanying installation instructions. The device shall be installed flush with top and bottom surfaces of floor.

SECURUS INC, DBA HUBBARD ENTERPRISES — HydroFlame PS-CS

3. **Cables —** Aggregate cross-sectional area of cables in opening to be max 45 percent of the cross-sectional area of the nom 2 in. (51 mm) or 3 in. (76 mm) diam firestop device throat. Min separation between cables and between cables and periphery of firestop device throat is 1/8 in. (3.2 mm). Cables to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of copper conductor cables may be used:

A. Max 1/C 500 kcmil cable with crosslinked polyethylene (XLPE) jacket.

B. Max 8/C No. 12 AWG or max 12/C No. 14 AWG cable with XLPE insulation and jacket.

C. Max 100 pair No. 24 AWG cable with PVC insulation and jacket.

4. **Packing Material —** Min 2 in. (51 mm) depth of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into top of firestop device as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material.

5. **Fill, Void or Cavity Material* — Sealant —** Min 1/4 in. (6 mm) thickness of sealant applied within the annulus, flush with the top surface of floor. Sealant to be forced into interstices of cable group to max extent possible. Sealant to lap min 1/2 in. (13 mm) onto top surface of concrete around perimeter of firestop device.

3M COMPANY

3M FIRE PROTECTION PRODUCTS — FB-1000 NS, FB-3000 WT or FB-1003 SL

*Bearing the UL Classification Mark

Last Updated on 2009-08-19