



XHEZC.SP424 Firestop Systems

[Page Bottom](#)

Firestop Systems

[See General Information for Firestop Systems](#)

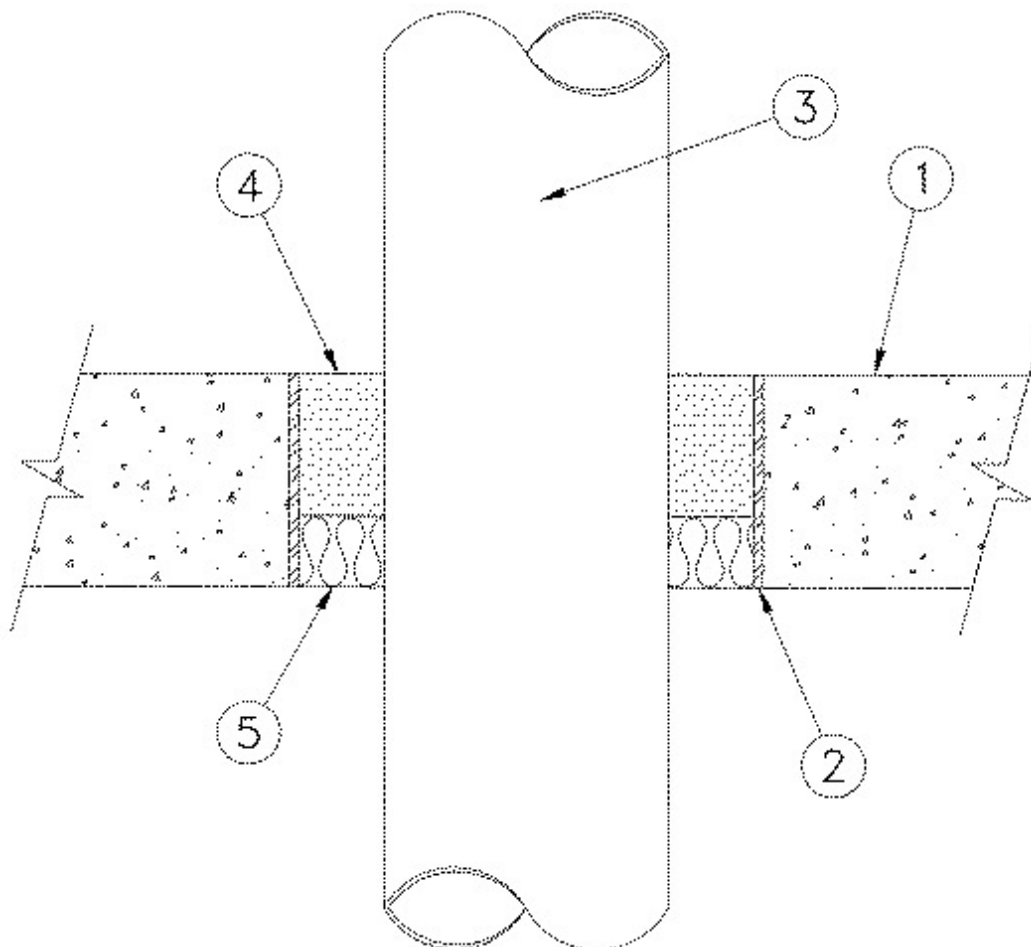
System No. SP424

January 13, 2004

(For Horizontal or Vertical Separations)

F and FH Ratings - 3 h

FT and FTH Ratings - 0 h



1. **Floor or Wall Assembly** — Min depth or thickness as necessary for required grade of fire separation but not less than 114 mm normal-density ($2400 \pm 50 \text{ kg/m}^2$) concrete. Floor may also be constructed of min 152 mm thick hollow-core precast concrete units having a fire resistance rating equal to or greater than that of the firestop system. Max diam of opening is 102 mm greater than the diameter of through-penetrant (Item 3). When precast concrete units are used, max diam of opening is 178 mm.

2. **Metallic Sleeve (optional)** — Nom 254 mm OD (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly flush with floor or wall surfaces. The max diam of the metallic sleeve is dependent upon the type and max diam of the through-penetrant (Item 3) and annular space within the firestop system.

3. **Pipe** — Nom 152 mm OD (or smaller), 3.5 mm wall thickness (or heavier) copper pipe or conduit, or nom 610 mm OD (or smaller. Steel or cast iron pipe, centered within opening to give a min annular space of 50 mm. Penetrating item

to be rigidly supported on both sides of floor or wall assembly.

- **4. Firestop System Components** — (XHJZC). Type "A/D Firebarrier Mortar" compound prepared by mixing mortar powder with water at a ratio of 1 bag (7 kg) of powder to 2.5 kg of water in accordance with the manufacturer's instructions. The mortar compound is trowelled into the opening to a min thickness of 76 mm flush with top surface of floor or both surface of wall assembly. In floors constructed of hollow-core precast concrete units, mortar installed symmetrically on both sides of floor.

A/D FIRE PROTECTION SYSTEMS INC

- 5. Forming Material (optional)** — Mineral wool insulation installed to prevent leakage of mortar compound while in liquid state fitted tightly against penetrating item and perimeter of opening. If left in place will not affect assigned ratings.

Last Updated on 2004-01-13

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