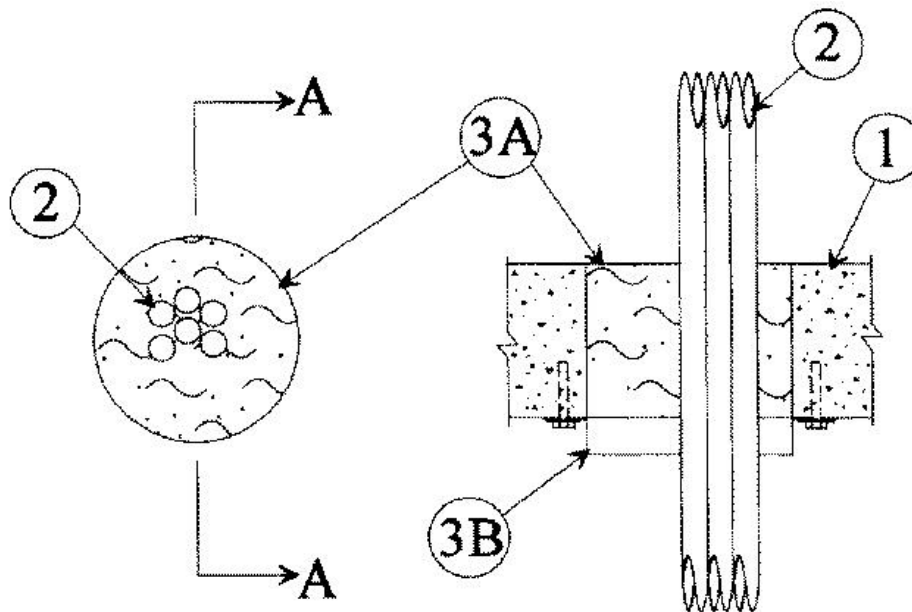


F Rating — 2 Hr
T Rating — 2 Hr



SECTION A-A

1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Nonmetallic Pipe** — Nom 1 in. diam (or smaller) SDR 9 crosslinked polyethylene (PEX) tube for use in closed (process or supply) piping systems. Six tubes to be bundled together within opening. The space between tubes and periphery of the opening shall be min 1-1/4 in. to max 2-1/2 in. Tubes to be rigidly supported on both sides of floor or wall assembly.

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

A. **Packing Material** — Min 4-1/2 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be installed flush with both surfaces of floor or wall.

B. **Firestop Device*** — Nom 4 in. size galv steel collar lined with an intumescent material sized to fit specific diam of the bundled penetrants. Device to be installed around through penetrants in accordance with accompanying installation instructions. Device incorporates three anchor tabs for securement to underside of the concrete floor by means of 1/4 in. diam by 1-1/4 in. long steel expansion bolts in conjunction with min 3/4 in. diam washers. In walls, collars are installed on each side of wall.

RECTORSEAL — [Metacaulk Pipe Collar](#)

*,+ 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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