1. **Wall Assembly** — Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m$^3$) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 5 in. (127 mm).

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** — Nom 4 in. (102 mm) diam (or smaller). Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. Pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Pipe to be rigidly supported on both sides of wall assembly.

3. **Firestop System** — The firestop system shall consist of the following:
   - **A. Fill, Void or Cavity Materials* - Caulk** — Min thickness of 5/8 in. (16 mm) of caulk applied within annulus, flush with both surfaces of wall assembly.

   **EVERKEM DIVERSIFIED PRODUCTS INC** — Firestop 814+

4. **Firestop Device*** — Galv steel collar lined with an intumescent material sized to fit specific diam of the through penetrant. Device to be installed around through penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to both surfaces of the wall by means of 1/4 in. diam by 1-1/4 in. (32 mm) long masonry type anchors.
T Rating is 2-3/4 hours when Item 3 is used.

3A. Firestop System — (Alternate to Item 3) — The firestop system shall consist of the following:
A. Fill, Void or Cavity Materials* - Caulk — (Optional) — Min thickness of 5/8 in. (16 mm) of caulk applied within annulus flush with both surfaces of wall assembly.

T rating is 4 hr when Item 3A is used.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.