



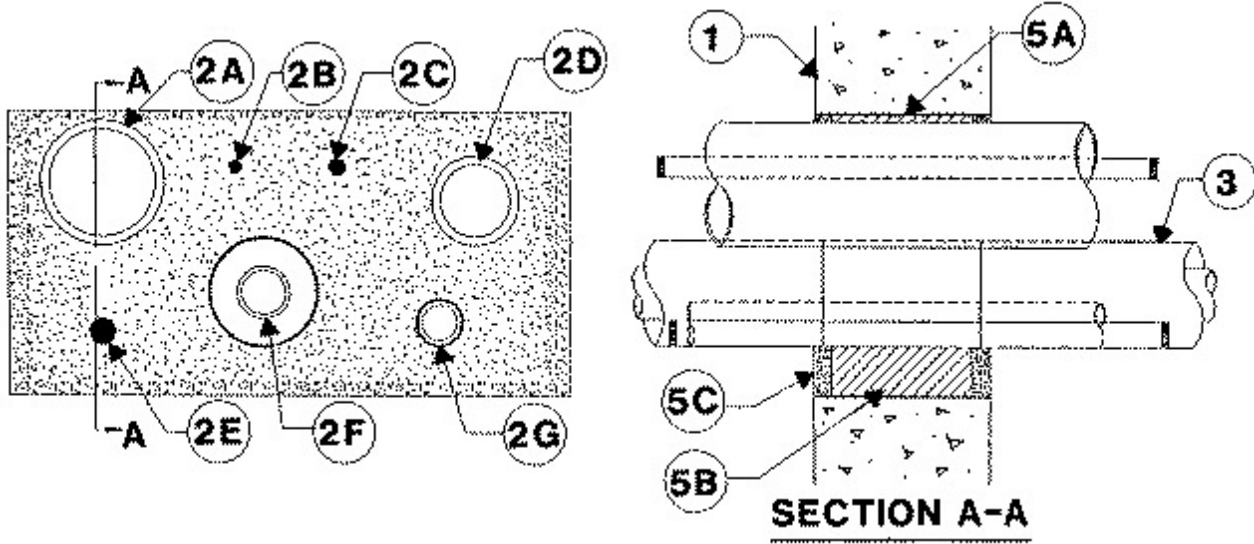
System No. W-J-8001

December 20, 2000

(Formerly System No. 445)

F Rating — 2 Hr

T Rating — 1/4 Hr



1. **Wall Assembly** — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 128 sq in. with max dimension of 16 in.

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

2. **Through Penetrants** — The following types and sizes of pipes, conduits, tubing or cables may be used:

- A. Nom 3 in. diam (or smaller) electrical metallic tubing (EMT).
- B. Max 25 pair — No. 24 AWG (or smaller) telephone cable with polyvinyl chloride (PVC) insulation and jacket.
- C. Max 3/C with ground — No. 10 AWG (or smaller) Type NM cable with PVC insulation and jacket.
- D. Nom 2 in. diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) piping systems only.
- E. Nom 2 in. diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.
- F. Max 300 kcmil (or smaller) power cable with PVC insulation and nylon jacket.
- G. Nom 1-1/2 in. diam (or smaller) Type L (or heavier) copper pipe.
- H. Nom 1 in. diam (or smaller) Schedule 40 polybutylene pipe for use in closed (process or supply) piping systems only.

The through penetrating items to be rigidly supported on both sides of the wall assembly and located as shown in the table below:

	Max Distance	Min Distance	Max Distance	Min Distance
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Item No.	Between Adjacent Pen. Item In.	Between Adjacent Pen. Item In.	From Through Opening In.	From Through Opening In.
2A	7-7/16	1-11/16	7-7/16	1/2
2B	7-7/16	1-11/16	7-7/16	1/2
2C	7-7/16	1-11/16	7-7/16	1/2
2D	7-7/16	1-11/16	7-7/16	1/2
2E	7-7/16	1-11/16	7-7/16	1-1/2
2F	7-7/16	1-11/16	7-7/16	1/2
2G	7-7/16	1-11/16	7-7/16	1/2

3. **Tube Insulation — Plastics +** — Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing or sheets with skin.

See **Plastics+** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

4. **Fill, Void or Cavity Material* — Wrap Strip** — (Not Shown) — One layer of nom 1/4 in. thick by 1 in. wide intumescent wrap strip wrapped around pipe (Item 2H) or Tube Insulation (Item 3) with ends butted. Wrap strip secured with one soft No. 20 AWG steel wire. One wrap strip to be installed on each side of wall, such that approx 3/8 in. of wrap strip protrudes from each surface of wall .

RECTORSEAL — Metacaulk Wrap Strip

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

A. **Steel Wire Mesh** — No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of steel wire mesh to be 4-3/4 in., centered and formed to fit periphery of through opening.

B. **Packing Material** — Min 4.0 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

C. **Fill, Void or Cavity Material* — Caulk** — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.

RECTORSEAL — Metacaulk 950

Note:

+ Bearing the UL Recognition Marking

*Bearing the UL Classification Mark