metacaulk



F Rating — 2 Hr T Ratings — 0, 1/4 and 2 Hr (See Item 3C)



1. Wall Assembly — Min 5 in. thick reinforced lightweight or normal weight (100<u>150</u> pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in.

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

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening shall be as shown in the table below. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe Nom 1 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
- B. Conduit Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
- C. Copper Tubing Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

3. **Firestop System** — The hourly F and T Rating for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:

A. **Steel Sleeve or Wire Mesh** — No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of sleeve to be 1/4 to 1/2 in. less than overall thickness of wall such that, when installed in circular opening, the ends of the sleeve are recessed 1/8 to 1/4 in. from each surface of the wall. Sleeve may also be formed of min 0.034 in. thick (20 MSG) galvanized sheet steel.

B. **Packing Material** — Mineral wool batt insulation firmly packed into opening as a permanent form at the thickness shown in the table below. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material. As an option to the above, backer rod and/or foamed plastic backer material may be used.

C. Fill, Void or Cavity Material — Caulk* — Applied within the annulus, flush with both surfaces of wall as shown in the table below:

Pipe Type	Max Pipe Diam In.	Annular Space In.	Min Forming Mtl Depth In.	Type of Fill Mtl (a)	Min Fill Mtl Depth In.	F Rating Hr	T Rating Hr
2A	1	1	1-1/4		1-1/4	2	2

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2B	4	1	1-1/4		1-1/4	2	1/4			
2B	4	3/4 to	1/4	A	1/4	2	1/4			
		3-1/2								
2C	4	3/4 to	1/2	A	1/2	2	0			
		3-1/2								
2B	4	3/4 to	1	A	1	2	1/4			
		3-1/2								
2B	4	1/2	1	В	1-1/4	2	1/4			
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RECTORSEAL — Metacaulk 950

RECTORSEAL — Metacaulk 835+

*,+ 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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