



**SYSTEM
C-AJ-1374**

**Metallic Pipe and Copper
Tubing Sleeved Hole**

Additional Systems
C-AJ-1373 Core Drilled
C-AJ-2328 PVC, CPVC,
Rigid Non-Metallic Conduit

1. Floor or Wall Assembly - Minimum 4-1/2" thick reinforced lightweight or normal weight concrete, maximum hole diameter is 11 in.

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

1A. Metallic Sleeve - Nominal 11 in. diameter (or smaller) min .060 in. (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

2. Through Penetrants - One metallic pipe, conduit or tubing to be centered within the firestop system. The nominal annular space between the pipe, conduit or tubing and the periphery of the opening shall be min 1/2 in. to a max 2-7/16 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe** - Nominal 6 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe** - Nominal 6 in. diameter (or smaller) cast or ductile iron pipe.
- C. Conduit** - Nominal 4 in. diameter (or smaller) steel electrical metallic tubing or nominal 6 in. diam rigid steel conduit.
- D. Copper Tubing** - Nominal 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
- E. Copper Pipe** - Nominal 6 in. diameter (or smaller) regular (or heavier) copper pipe.

The F Rating of the firestop system is dependent upon the annular space within the firestop system. If the annular space within the firestop system is 1-3/16 in. or less, the F Rating is 2 hr. If the annular space within the firestop system is greater than 1-3/16 in., the F Rating is 1-1/2 hr.

3. Firestop Device/Specification* - The firestop device consists of intumescent rubber plugs, steel plates and steel bolts sized to within the nominal annular space of the firestop system. The device to be wrapped around the outer circumference of the penetrant and installed to completely seal the annular space within the firestop system in accordance with the accompanying installation instructions. In floors, device to be installed within opening in such a manner that the device to be recessed a 1/2 in. from the bottom surface of the floor. For walls, one device to be centered within the wall.

*Bearing the UL Classification marking.

CUSTOMER _____	 CHICAGO ILLINOIS	
PROJECT _____		
ENGINEER _____	DESCRIPTION: METRASEAL 120	
ARCHITECT _____	STEEL PIPE COPPER TUBING	
PRO. OR P.O. NO _____	F-RATING: 2 HRS. & 1-1/2 HRS.	T-RATING 0 HRS.
	DRAWN BY: Z.B.	DATE: 8-2-01
		DRAWING NO: C-AJ-1374