



**SYSTEM
C-AJ-2328**

**PVC, CPVC, Rigid
Non-Metallic Conduit Core
Drilled & Sleeved Hole**

Additional Systems
C-AJ-1374 Metallic Pipe & Copper
Tubing Sleeved Hole

C-AJ-1373 Metallic Pipe &
Copper Tubing Core Drilled Hole

1. Floor or Wall Assembly - Minimum 4-1/2" thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diameter of opening is 4 in.

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

1A. Metallic Sleeve - Nominal 4 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 nonmetallic pipe or conduit 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 minimum 5/8 in. to a max 13/16 in. The pipe or conduit to be rigidly supported on both sides of floor or wall. The following types and sizes of pipes or conduits may be used:

- A. **Polyvinyl Chloride (PVC) Pipe** - Nominal 2 in. diameter (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
- B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nominal 2 in. diameter (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.
- C. **Rigid NonMetallic Conduit +** - Nominal 2 in. diameter (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code, (NFPA No. 70).

The F Rating of the firestop system is dependent upon the nominal diameter of the penetrant within the firestop system. If the nominal diameter of the penetrant within the firestop system is a nominal 1-1/4 in. or less, the F Rating is 2 hr. If the nominal diameter of the penetrant within the firestop system is greater than 1-1/4 in., the F Rating is 1 hr.

3. Firestop Device - The firestop device consists of rubber plugs, steel plates and steel bolts sized to fit within the 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 installation instructions. In floors, device to be installed within opening in such a manner that the device to be recessed a nominal 1/2 in. from the bottom surface of the floor. For walls having a nominal thickness of 8 in. or less, the device to be installed within the opening in such a manner that the device shall be recessed at minimum 1/2 in. to a max 1-1/2 in. from either surface. For walls having a nominal thickness greater than 8 in., a device to be installed on each side of the wall.

* Bearing the UL Classification Marking + Bearing the UL Listing Mark

CUSTOMER _____ PROJECT _____ ENGINEER _____ ARCHITECT _____ PRO. OR P.O. NO _____	<p>CHICAGO ILLINOIS</p>
DESCRIPTION: METRASEAL 120 PVC, CPVC, RIGID NON-METALLIC CONDUIT	
F-RATING: 2 HRS. & 1 HR. T-RATING: 0 HRS.	
DRAWN BY: Z.B.	DATE: 9-4-01
DRAWING NO: C-AJ-2328	