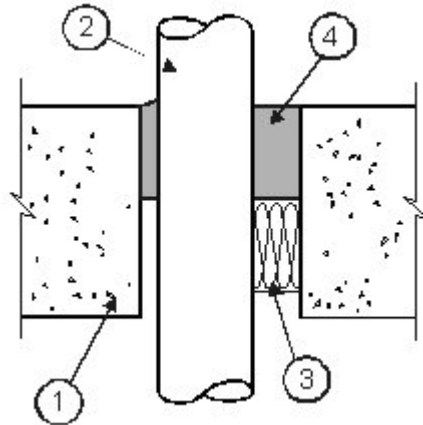


DESIGN NO. 3M/PHV 120-20
HORIZONTAL/VERTICAL (FLOOR/WALL); RATINGS & OPENING DIAMETER:
SEE TABLE BELOW
TEST PRESSURE DIFFERENTIAL - 50 PA (0.20" OF WATER)

				CAN/ULC-S115	
Penetrant	Max. Pipe ID	Max. Opening Diameter	Annular Space	F, FH	FT, FTH
XFR	2"	3"	1/4" - 3/4"	2 Hr	1/2 Hr



1. **Floor or Wall Assembly** - Code conforming 2 Hour fire-rated floor or wall assembly, nominal 4-1/2 " thickness, normal or low density cast concrete. Wall may also be constructed of nominal 8" thick concrete blocks (filled or unfilled). Ratings achieved will equal that of floor or wall assembly
a) Steel Sleeve (Optional, not shown): Minimum 0.028 wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a maximum of 1/2" beyond either surface of floor or wall assembly.
2. **Penetrant:** (See also table of ratings) Schedule 40, XFR pipe for use in DWV (Drain, Waste and Vent) or Closed (Process & Supply) piping systems.
- Firestop System Components:**
3. **Forming Material:** Mineral wool, 2" thickness, 4 pcf, tightly packed around the penetrant recessed from the floor or wall surface.
4. **Sealant:** *3M™ Fire Barrier IC 15WB+ Sealant applied to a 2" thickness, within the annular space around the penetrant, over the forming material, flush with the floor or wall surface. For wall applications apply firestop system to both surfaces