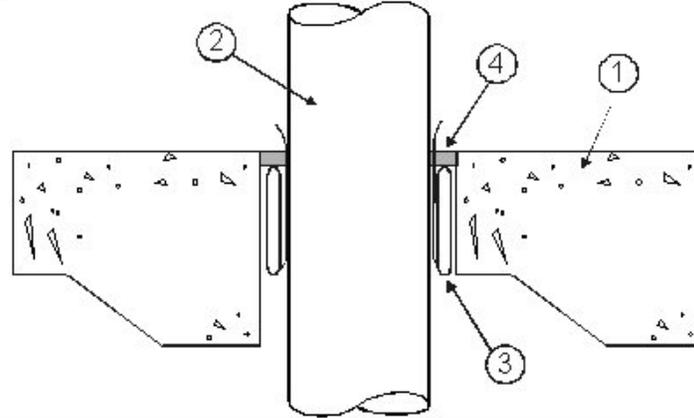


DESIGN NO. 3M/PH 120-08
 HORIZONTAL (FLOOR),
 RATINGS - SEE BELOW, HOLE SIZE - SEE ITEM 3
 TEST PRESSURE DIFFERENTIAL - 50 Pa (0.20" OF WATER)

Penetrant	Max. Pipe ID	CAN/ULC-S115 F, FH, FT, FTH
PVC	2"	2 Hr
ccABS	3"	2 Hr
ABS	2"	2 Hr
PVC - Thin Wall	2"	2 Hr



1. **Floor Assembly:** Code conforming 2 hour fire-rated floor assembly, nominal 2-1/2" thick concrete, Q Deck or Fluted Deck, normal or low density cast concrete.
2. **Penetrant:** (See table of ratings) Schedule. 40, ccABS, ABS, PVC pipes for use in DWV (Drain, Waste & Vent) or Closed (Process & Supply) piping systems and PVC-Thin Wall Vacuum Tubing (nominal 2" diameter), ratings achieved will equal that of floor assembly.
3. **Firestop System Component:** *3M™ FireStrap™: Install within opening 1/2" below the floor surface of the concrete according to the manufacturer's instructions.
 Use *3M™ FireStrap™ 1-1/2" for PVC - Thin Wall Vacuum Tubing (nominal 2" diameter).

Pipe ID	Hole Size
1-1/2"	2-1/2"
2"	3"
3"	4-1/2"
4. **Sealant:** *3M™ Fire Barrier CP-25WB+ Caulk, *3M™ Fire Barrier IC 15WB+ Sealant or *3M™ FireDam 150+ Caulk, applied to 1/2" thickness flush with the floor surface.

Note: Metric conversion factor, inches x 25.4 = mm.
 *Components bearing the Warnock Hersey Certification Mark.