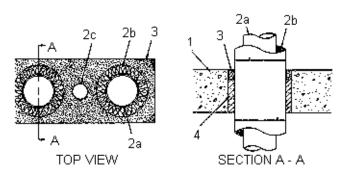
## DESIGN NO. TRC/PH 180-02 HORIZONTAL (FLOOR), F RATING - 3 HRS, T RATING - 1 HR ON 2A PENETRATIONS,

T RATING - 0 ON 2C PENETRATIONS;

ANNULAR SPACING - 1/2" TO 1-5/8"

TEST PRESSURE DIFFERENTIAL - 2.5 Pa (0.01" OF WATER) MINIMUM



Manufacturer's Designation: 950 CF-19.

- 1. Floor: Nominal 4-1/2" lightweight or normal weight concrete with a maximum area of opening 96 sq. in. with a maximum dimension of 16".
- 2. Penetrations: Type M (2) Nominal 3" and 1-1/2" Copper Tubing.
  - a) Two Nominal 3" Type M (or heavier) Copper Tubing with insulation.
  - b) Nominal 1" thick hollow cylindrical heavy density (nominal 12 pcf mineral density) unfaced fiber pipe covering material with a resin binder.
  - c) One Nominal 1-1/2" Type M (or heavier) Copper Tubing.
- 3. Caulking Compound or Filler Material: Minimum thickness 1/2" Metalines, Inc. Metacaulk\* 950.
- 4. Insulation: Minimum 2" thickness of minimum 4 pcf density mineral-wool batt material tightly-packed.

\*Component bearing the Warnock Hersey Certification Mark