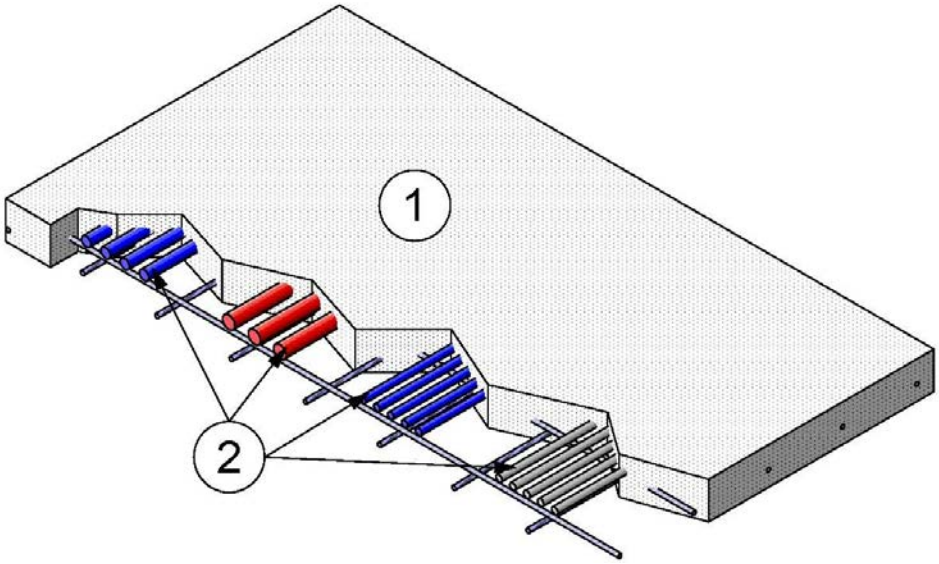
Viega LLC
Design No. VL/FWDP 120-01
Floor/Ceiling Assembly
Viega PureFlow System, ViegaPEX Barrier, Viega PureFlow PEX, and Viega FostaPEX
ASTM E119-12, CAN/ULC S101-07, UL 263, NFPA 251, and UBC 7-1
Unrestrained Assembly Rating: 2 Hour
Restrained Assembly Rating: 2 Hour



1. **FLOOR/CEILING ASSEMBLY:** Use a two hour fire-rated floor/ceiling assembly consisting of min. 6 in. (152 mm) thick normal weight 100-150 pcf (1600-2400 kg/m^3) reinforced concrete. Concrete to be reinforced in accordance with Code requirements. Min. concrete cover for positive steel reinforcement is 1-1/2 in. (38 mm).

2. **CERTIFIED MANUFACTURER:** Viega LLC

   CERTIFIED PRODUCT: 3/8 in. to 2 in. (9.5 mm to 51 mm) PEX Tubing

   CERTIFIED MODELS: Viega PureFlow System, ViegaPEX Barrier, Viega PureFlow PEX, or Viega FostaPEX

   PEX TUBING: Install 3/8 in. through 2 in. (9.5 mm to 51 mm) nominal pipe size PEX tubing. Tubing shall be evenly distributed and tied to the top side of the positive reinforcing bars. The tubing may penetrate through the top or bottom of the concrete floor/ceiling assembly (Item 1) when used in closed systems with a min. of 10 ft. (3 m) between bottom and top penetrations. The max. density of PEX tubing expressed as a percentage of concrete slab cross sectional area is 14.8%.

3. **PEX SLEEVE:** (Not Shown, Optional) Install PEX sleeve inside concrete slab. The sleeves should be evenly distributed and tied to the top side of the positive reinforcing bars. Route PEX tubing (Item 2) through PEX sleeves. Sleeve cannot be installed beyond 2 in. out of concrete unless it is encased in fiberglass pipe insulation.

4. **BEND SUPPORTS:** (Not Shown, Optional) Snap-on bend support sleeves, Models 2850.3US and 2850.2US, can be used in lieu of short radius 90° elbows.