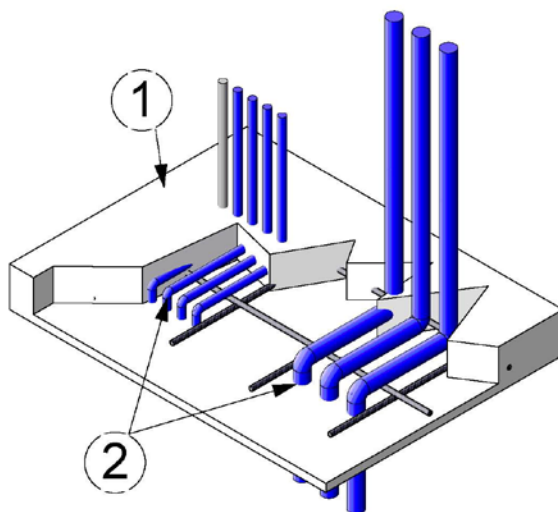


Viega LLC
Design No. VL/FWDP 120-02
Floor/Ceiling Assembly
Viega PureFlow System, ViegaPEX Barrier, Viega PureFlow PEX, and Viega FostaPEX
ASTM E814-11a and CAN/ULC S115-11
Pressure Differential 0.01 in. (2.5 Pa) Water Column
F-Rating: 2 Hour
T-Rating: See Chart



T-Rating Chart				
Nominal Pipe Size*		Min. Offset Distance		T-Rating
in.	mm	in.	mm	Min.
2	51	6	152	31
2	51	12	305	36
1-1/2	38	6	152	46
1-1/2	38	12	305	84
1	25	6	152	120

*Note: Pipe sizes not listed are covered by the next largest pipe size listed.

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/m³) 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 for use in open or closed systems. Tubing shall be evenly distributed and tied to the top side of the positive reinforcing bars. The tubing penetrates through the top and bottom of the floor/ceiling assembly (Item 1) with a min. offset as described in the T-Rating Chart.



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.