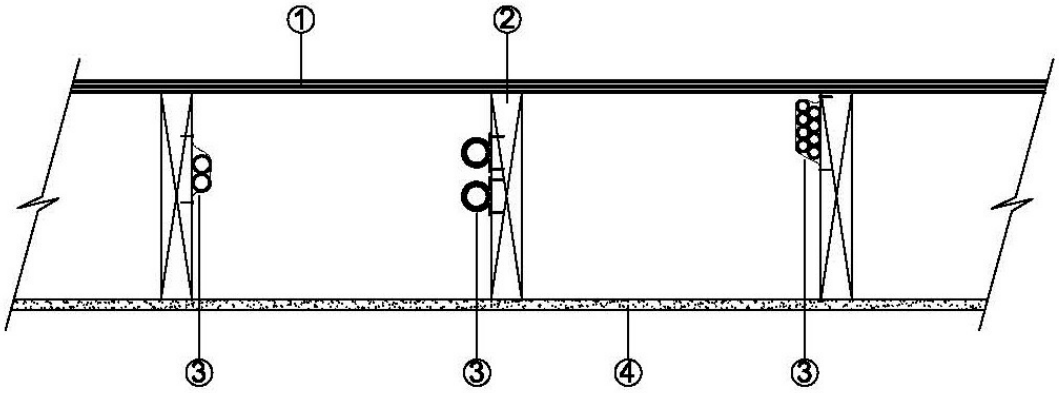
**Sioux Chief Manufacturing Company, Inc.**
**Design No. SCMC/DWP 60-01**
**Floor/Ceiling Assembly**
**PowerPEX and PowerPEX Barrier Pipes**
**CAN/ULC-S101, ASTM E119**
**Rating: 1 Hour**




1. **SUB-FLOORING:** Min. 5/8 in. (15mm) thick plywood conforming to Code requirements.

   **FINISH FLOORING:** Min. 1/2 in. (12mm) thick plywood installed over commercial rosin-sized building paper.

2. **WOOD JOISTS:** Min. nominal 2 in. × 10 in. (50mm × 235mm) solid sawn wood joists spaced 16 in. (406mm) on centers (oc). Blocking or cross-bridging is required at 6 ft. oc.

3. **CERTIFIED MANUFACTURER:** Sioux Chief Manufacturing Company, Inc.

   **CERTIFIED PRODUCT:** PowerPEX and PowerPEX Barrier Pipes

   3/8 in. (9mm) through 2 in. (50mm) nominal pipe size (Standard or O2 Barrier) SIOUX PEX tubing for water distribution or radiant heating, fastened to joists using steel or copper hangers located 24 in. (610mm) oc for 1-1/2 in. and 2 in. (38mm and 50mm) tubing, and 30 in. (760mm) oc for tubing up to 1 1/4 in. (32mm) nominal pipe size. The max. amount of tubing shall be 0.7 lbs (0.31 kg) of tube per 39 in. (1m) length of joist cavity. Tubing may penetrate floor through a sill plate into a stud wall cavity. Appropriate Listed firestop sealant is required to seal annular space around piping.

4. **GYPSUM WALLBOARD:** 5/8 in. Type X gypsum wallboard installed perpendicular to joists with end joints staggered 48 in. Fastened to joists with 1-3/4 in. Type W drywall screws, located 8 in. oc. Joints to be taped and filled with two layers of gypsum joint compound.