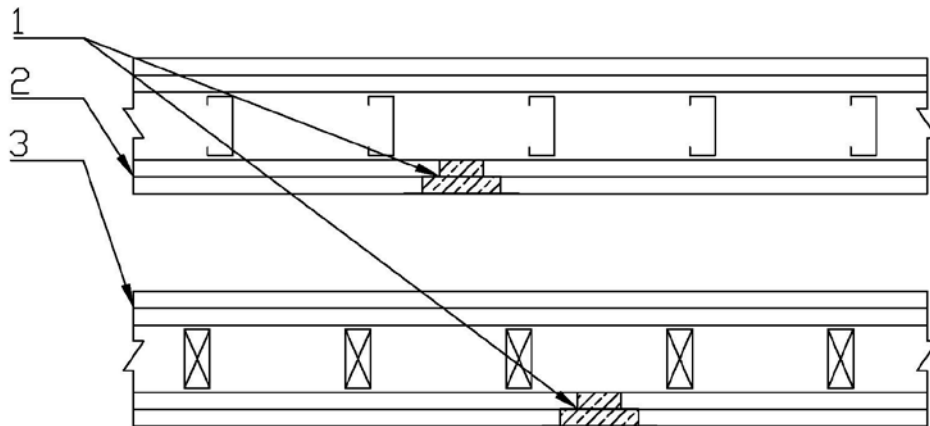


**Building Products Manufacturing International, Inc.**  
**Design No. BPMI/GBA 120-01**  
**Fire-Resistance Rated Wall Assembly**  
**Fireguard Drywall Repair Plug**  
**ASTM E814-13a**  
**Rating: 2 Hours**



- 1. CERTIFIED MANUFACTURER:** Building Products Manufacturing International, Inc. dba BPMI, Inc.

**CERTIFIED PRODUCT:** Fireguard Drywall Repair Plug

**CERTIFIED MODEL:** Fireguard Drywall Repair Plug

One circular opening is cut around the intended drywall area through the two layers of gypsum wallboard. A drywall disk of 4 in. in diameter is cut from the inner layer of the drywall assembly; a drywall disk of 7 in. in diameter is cut on center (oc) to the 4 in. opening, from the outer layer of the drywall assembly.

All-purpose joint compound is applied to the joint paper on the 4 in. Fireguard Drywall Repair Plug. The 4 in. Fireguard Drywall Repair Plug is inserted into the opening on the inner layer of the gypsum wallboard assembly.

Excess joint compound is removed. The 7 in. plug is inserted into the outer layer oc to the 4 in. plug in the same fashion. The entirety of the opening is then fully patched with all-purpose joint compound on the outer layer of gypsum wallboard.

- 2. SUPPORTING CONSTRUCTION A:** Min. 2 hour fire-resistance rated steel stud gypsum wallboard wall assembly.

- A. STEEL STUD** – 3-1/2 in. web depth, min. 20 GA steel studs and runner, spaced at max. 16 in. oc.
- B. GYPSUM WALLBOARD** – Min. 5/8 in. thick Type X or Type C fire-resistance rated gypsum wallboard.

Inner layer joints are placed oc over steel studs; outer layer joints are staggered with the inner layer. Outer layer joints are taped and covered with joint compound; fastener heads are covered with joint compound.



- C. FASTENERS – Steel studs are fastened using 1/2 in. self-tapping metal screws. The inner layer of gypsum wallboard is fastened using 1-5/8 in. self-tapping drywall screws, 12 in. oc around the perimeter and 24 in. oc in the field. The outer layer of gypsum wallboard is fastened using 2-1/2 in. self-tapping drywall screws, 8 in. oc around the perimeter and 12 in. oc in the field.

**3. SUPPORTING CONSTRUCTION B:** Min. 2 hour fire-resistance rated wood stud gypsum wallboard wall assembly.

- A. WOOD STUD – #2 Grade or better, min. 2 x 4 studs, spaced at max. 16 in. oc.
- B. GYPSUM WALLBOARD – Min. 5/8 in. thick Type X or Type C fire-resistance rated gypsum wallboard.

Inner layer joints are placed oc over wood studs; outer layer joints are staggered with the inner layer. Outer layer joints are taped and covered with joint compound; fastener heads are covered with joint compound.

- C. FASTENERS – Wood studs are fastened using 3 in. #8 coarse-thread wood screws. The inner layer of gypsum wallboard is fastened using 1-5/8 in. drywall screws, 12 in. oc around the perimeter and 24 in. oc in the field. The outer layer of gypsum wallboard is fastened using 2-1/2 in. drywall screws, 8 in. oc around the perimeter and 12 in. oc in the field.