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.