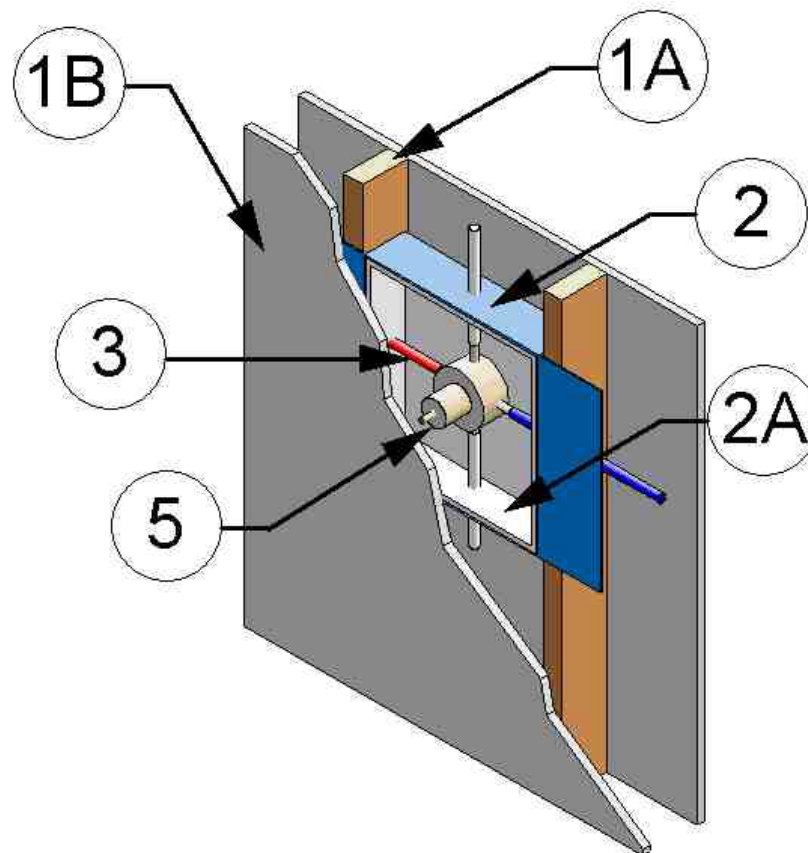


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Design Number FRPS/FME 60-07  
NON-LOADBEARING WALL  
Fire Rated Product Specialties Corp  
FN-Z-14-14-3 Fire Enclosure  
ASTM E 119 & CAN/ULC S101  
Assembly Rating – 1 Hour

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1. WALL ASSEMBLY: Construct wall assembly using the following elements:

- A. Wood Studs: Install number 2 Grade Douglas Fir 2 x 4 wood studs spaced maximum 16 in. on center (oc) between a double wood stud top plate and single wood stud bottom plate with horizontal 2 x 4 wood stud cross-bracing at the midpoint of the wall height. Fasten wood studs to top and bottom plates with Number 16d framing nails spaced maximum 16 in. oc.

- B. Gypsum Board: Attach one layer of 5/8 in. thick, Type X gypsum board

on each face. Locate butt joints over studs and offset butt joints on opposite sides maximum 24 in. Attach to wood studs (Item 1A) with Number 6 x 1-5/8 in. long coarse thread screws, spaced minimum 8 in. oc around the perimeter and minimum 12 in. oc on the intermediate studs.

- C. JOINT TAPE AND COMPOUND: (Not shown) Use vinyl or casein, dry or premixed joint compound applied to face layers of gypsum wallboard in two coats to all exposed screw heads and gypsum board (Item 1B) butt joints. Embed a minimum 2 in.

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wide paper, plastic, or fiberglass tape in first layer of compound over butt joints between gypsum board (Item 1B). Verify a minimum wall depth of 4.75 in. created from face layer of gypsum board (Item 1B) to face layer of gypsum board (Item 1B).

2. **CERTIFIED MANUFACTURER:** Fire Rated Product Specialties Corp

**CERTIFIED PRODUCT:** Fire Enclosure

**MODEL:** FN-Z-14-14-3 F

Use fire enclosure FN-Z-14-14-3 F constructed of 22-4 GA galvanized steel, having nominal dimensions of: 24 in. long x 14 in. wide x 3-1/4 in. deep, and having two nominal 5 in. wide flanges on the short edges. Position the fire enclosure in wall cavity with flanges over wood studs (Item 1A). Secure the flanges of the fire enclosure to the wood studs (Item 1A) with 1 in. coarse thread wood screws, spaced at predrilled locations on the flanges (fasten a minimum of two screws per flange). Install gypsum board (Item 1B) to the wood stud framing (Item 1A) covering the flange. Install maximum of one fire enclosure within a 100 square foot wall surface area.

- A. **CERTIFIED MANUFACTURER:** 3M Company

**CERTIFIED PRODUCT:**

Intumescent Mat

**MODEL:** I-10

**INTUMESCENT MAT MATERIAL:** Cover the interior surface area of the recessed speaker box cover system with nominal 3/16 in. thick, one layer intumescent mat material. Attach intumescent mat material using four pre-punched tabs on the inside of the recessed box cover system (Item 2) in accordance with manufacturer's instructions. If tabs are not available, attach mat using Number 8 x 3/4 in. long K-lath screws inserted through 1 in.

diameter galvanized steel washers. Attach a minimum of 2 screws per interior face. All interior surfaces must be covered with intumescent material.

3. **PEX Tubing:** Insert maximum nominal 1/2 in. PEX tubing into 3/4 in. knock-outs or drilled maximum 3/4-in. holes on the side walls of the fire enclosure (Item 2). Use a maximum of four penetration points total and a maximum of two penetration points on any side with a minimum spacing of 3 in. between holes. Cut a small "X" into the intumescent mat (Item 2A) at the penetration points. Seal penetrations into the steel fire enclosure body with firestop sealant (Item 4) and install in accordance with manufacturer's instructions.

4. **CERTIFIED MANUFACTURER:** 3M Company

**CERTIFIED PRODUCT:** Sealant

**MODEL:** CPWB25+

**FILL, VOID, OR CAVITY MATERIAL (Not Shown):** Non-combustible sealant. Apply a bead of sealant around annular space at the penetration through the steel fire enclosure body (Item 2).

5. **Shower Mixing Valve:** Use only brass body shower mixing valves with connections to PEX tubing within the fire enclosure (Item 2). Cut a maximum 8-5/8 in. diameter hole into the gypsum board (Item 1B). Install shower mixing valve and a noncombustible cover (e.g. stainless steel cover plate) in accordance with manufacturer's instructions.