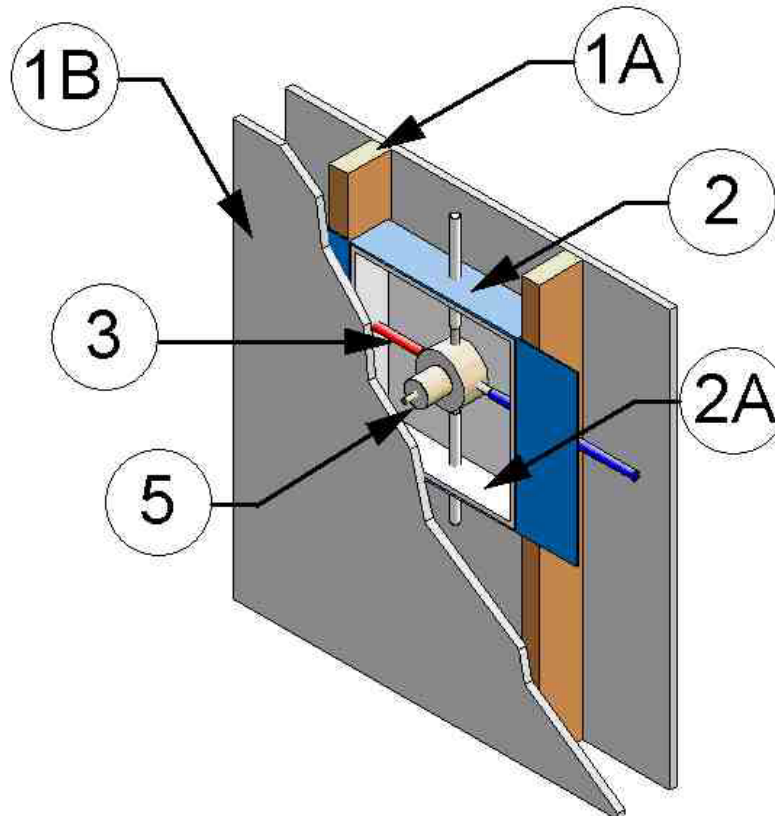


Fire Rated Product Specialties Corp
Design No. FRPS/FME 60-09
Non-Loadbearing Wall
FN-Z-14-14-3 FIRE ENCLOSURE
ASTM E119 & CAN/ULC S101
Fire Resistance Rating: 1 Hour



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

- A. Wood Studs: Install min. 2 x 4 wood studs spaced max. 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 max. 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 max. 24 in. Attach to wood studs (Item

1A) with Number 6 x 1-5/8 in. long coarse thread screws, spaced min. 8 in. oc around the perimeter and min. 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 min. 2 in. wide paper, plastic, or fiberglass tape in first layer of compound over butt joints between gypsum board (Item 1B). Verify a min. 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

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

Use fire enclosure FN-Z-14-14-3 F constructed of 24 GA galvanized steel, having nominal dimensions of: 14 in. long x 14 in. wide x 3-1/4 in. deep, and having two nominal 5 in. wide flanges on two opposite 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 min. of two screws per flange). Install gypsum board (Item 1B) to the wood stud framing (Item 1A) covering the flange. Install max. of one fire enclosure from each side of the wall within a 100 sq. ft. wall surface area. If the fire enclosures are located within a single wall cavity, one installed from each side, then stagger these vertically, min. 14 in. oc.

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

CERTIFIED PRODUCT: Intumescent Mat

CERTIFIED 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 min. of 2 screws per interior face. All interior surfaces must be covered with intumescent material.

3. **PEX TUBING:** Insert max. nominal 1/2 in. PEX tubing into 3/4 in. knock-outs or drilled max. 3/4 in. holes on the side walls of the fire enclosure (Item 2). Use a max. of four penetration points total and a max. of two penetration points on any side with a min. 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 max. 8-5/8 in. diameter hole into the gypsum board (Item 1B). Install shower mixing valve and a non-combustible cover (e.g. stainless steel cover plate) in accordance with manufacturer's instructions.