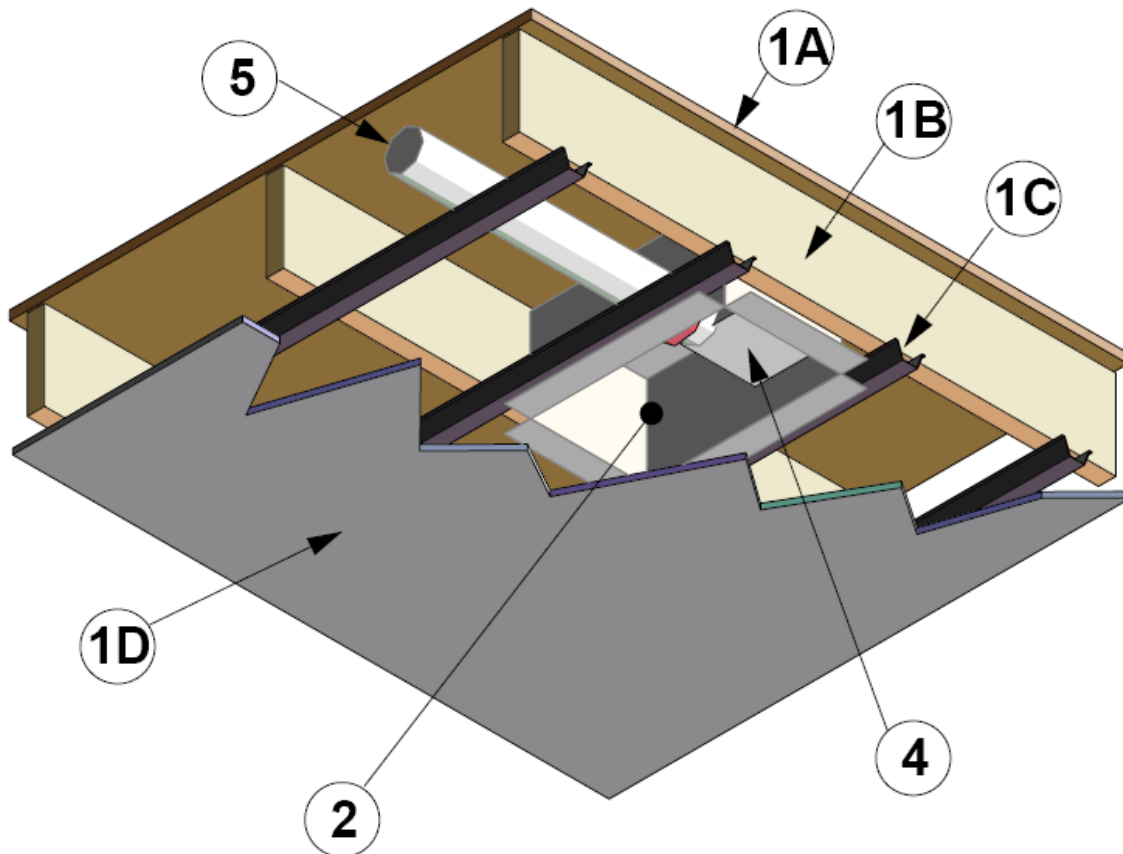

Design Number FRSP/FME 60-03
NON LOAD BEARING FLOOR / CEILING
Fire Rated Product Specialties Corp
FRPS Fire Rated Enclosures:
FN-Z-12-20-9 and FN-Z-12-20-9-SEA FIRE RATED ENCLOSURES
FN-Z-12-20-9-EXH, FIRE RATED ENCLOSURE
FN-Z-14-14-3, FIRE RATED ENCLOSURE
ASTM E 119
F Rating: 1 Hour



1. FLOOR CEILING ASSEMBLY:
Constructed in the manner as specified below:
 - A. Plywood Subfloor: Nominal 23/32- inch thick interior grade plywood. Align long dimension of panels, or face grain of plywood, to be perpendicular to wood studs with joints staggered. Plywood is secured to top side of wood joist assembly (Item 1B) with Number 6d nails spaced maximum 12-inches on-center.
 - B. Wood Joists: Nominal 2-inch x 10-inch SYP lumber spaced a maximum of 24-inches on-center. Joists and Resilient Channels form a minimum 12-inch deep cavity, from the underside of the subfloor (Item 1A) to the top side of the gypsum wallboard (Item 1D).
 - C. Resilient Channels: Formed from nominal 26 GA galvanized steel, spaced 16-inches on-center and applied perpendicular to the 2-inch x 10-inch

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SYP joists. Channel is secured to the trusses with 1-1/4 inch long steel coarse thread wood screws.

- D. Gypsum Wallboard: One layer of nominal 5/8 inch Type C gypsum wallboard is secured to the underside of the resilient channel (Item 1C)--applied parallel with the wood Joists and perpendicular to the Resilient Channels in the long dimension of the gypsum wallboard --with 1-1/4 inch long gypsum wallboard screws spaced maximum 8-inches around the perimeter and maximum 12-inches in the interior. Apply vinyl or casein, dry or premixed joint compound to face layers of gypsum wallboard in two coats to all exposed fastener heads and gypsum wallboard joints. A minimum 2-inch wide paper, plastic, or fiberglass tape is embedded in first layer of compound over joints in gypsum wallboard.

2. CERTIFIED MANUFACTURER: Fire Rated Product Specialties Corp

CERTIFIED PRODUCT: Formed Metal Fabrications

MODEL: FRPS Fire Rated

Enclosures: FN-Z-12-20-9, FN-Z-12-20-9-SEA, FN-Z-12-20-9-EXH, and FN-Z-14-14-3

RECESSED EXHAUST FAN COVER: Constructed of nominal 24 GA galvanized steel and having nominal dimensions 20-inches long x 12-inches wide x 9-1/2 inches deep and having nominal 2-5/8 inch wide flanges. Position the box inverted and recessed into the floor/ceiling cavity. Secure the flanges of the box to the underside of the truss assembly (Item 1B) with No. 6, 1-1/4 inch long bugle head screws (a minimum of three screws per flange) spaced at predrilled locations on the flanges. The boxes may be installed in the floor/ceiling with the following provisions:

- Maximum 1 recessed cover within 104 square foot area.

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3. INTUMESCENT MAT (*Not Shown*): One layer lining the interior surface area of the Recessed Exhaust Fan Cover. Attach mat material** using the prepunched tabs in accordance with manufacturer's instructions. (**Listed with Intertek).
4. RECESSED EXHAUST FAN: Bathroom exhaust fan/light combination fixture installed in accordance with manufacturer's instructions.
5. EXHAUST DUCT: Nom. 3-inch diameter metal exhaust pipe connected to Recessed Exhaust Fan Cover with a minimum of four 1/4-inch x 2-inch long steel screws.
6. SLEEVE EXTENSION (*Not Shown*): 3-inch diameter PVC pipe fitted concentrically inside the exhaust duct (Item 5) through wall of Recessed Exhaust fan Cover.
7. FIRESTOP DEVICE (*Not Shown*): 3M Fire Barrier Ultra PPD 3.0 R-9269 Plastic Pipe Device**, nom. 3-inch diameter, with three layers of intumescent mat material 1/8-inch thickness. Firestop Device is fitted concentrically over Sleeve Extension (Item 6). Attach device inside the Recessed Exhaust Fan Cover in accordance with manufacturer's instructions. (**Intertek Listed).
8. FIRESTOP SEAL (*Not Shown*): Apply a bead of firestop fill void or cavity material*** around annual space at the penetration through the floor/ceiling assembly. (***)Listed with Intertek).