



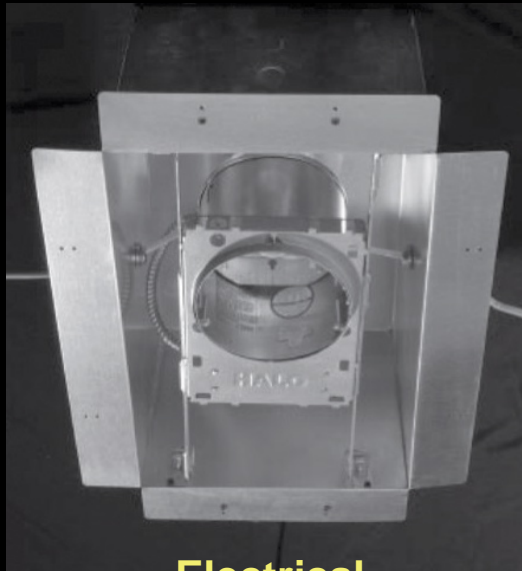
FIRE RATED PRODUCT SPECIALTIES CORP



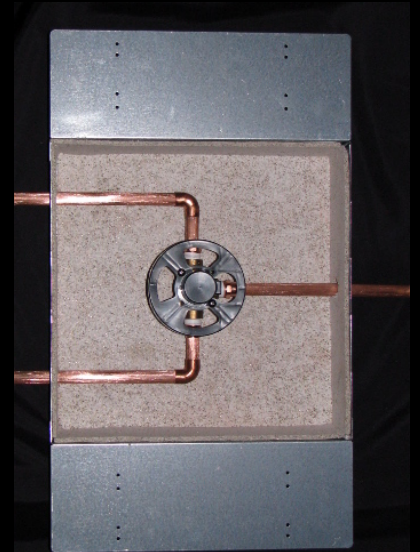
CATALOG and PRODUCT SPECIFICATIONS



Mechanical



Electrical



Low Volt./Plumbing



Tested and listed by
Intertek/Warnock Hersey
Testing Laboratories
W/N Listing No. 20182

www.FRPSonline.com

Easy to install
Easy to meet fire codes
Easy to save time and money



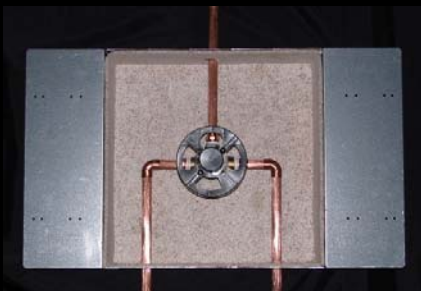
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WHY DO THIS?



WHEN YOU CAN DO THIS!



SAVE TIME AND MONEY



FIRE RATED
PRODUCT SPECIALTIES

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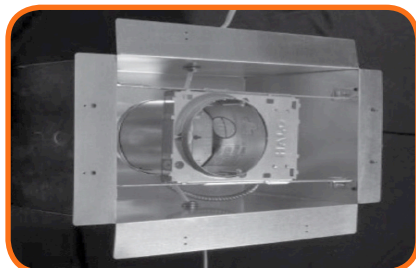




Code Compliance is not an option - it's the Law.

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FRPS Enclosures



Part No. FN-Z-12-20-9

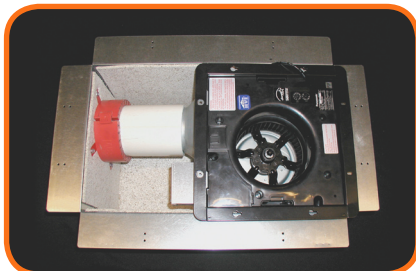
Fire Rated Enclosures

12.20" W x 20.20" L x 9.50" D

W/N Listing No. 20182

Rating: 1 Hr. ASTM E-119 F (non load bearing)

Description: Our original enclosure, used for all types of recessed lights, down lights, fluorescents, low hats and high hats.



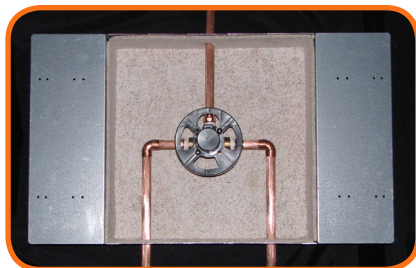
Part No. FN-Z-12-20-9-EXH

12.20" W x 20.20" L x 9.50" D

W/N Listing No. 20182

Rating: 1 Hr. ASTM E-119 F (non load bearing)

Description: The only solution for exhaust fans in bathrooms and other areas, providing a 1 hour rating while maintaining CFM specs.



Part No. FN-Z-14-14-3

14.00" W x 14.00" L x 3.00" D

W/N Listing No. 20182

Rating: 1 Hr. ASTM E-119 F (non load bearing)

Description: Our shallower version for a multitude of devices in side wall applications; plumbing feeds, dryer exhausts, speakers, and low voltage controls/panels.



FIRE RATED
PRODUCT SPECIALTIES
CORP

FRPS Fire Rated Enclosures meet all of the following fire codes:

UL 263	NFPA 251
ASTM E-119	ANSI A2.1
UBC 7-1	ULC S101



Tested and listed by
Intertek/Warnock Hersey
Testing Laboratories



FIRE RATED
PRODUCT SPECIALTIES
CORP

Fire Rated Product Specialties
901 N 3rd Street
Suite 130
Minneapolis, MN 55401

612.294.1450 FAX 612.436.0608
<http://www.FRPSonline.com>

1. Why FRPS enclosures?

Fire Compliance is the law. The 2006 International Building Code Section 712.4.1.2 (Page 104) states: "Penetrations of membranes that are part of a fire-resistance-rated horizontal or vertical assembly shall comply with section 712.1.1.1 or 712.4.1.1.2. Where assemblies are required to have a minimum 1-hour fire-resistance rating, all fixtures or devices shall be installed such that the required fire resistance of these assemblies will not be reduced."

2. Why can't I use a sheetrock enclosure?

Site-constructed sheetrock enclosures are subject to the widest variations in quality of installation and consequently performance. Those who build these sheetrock versions may not understand or appreciate the importance of the function of the required enclosure. The sheetrock option DOES NOT perform, and it is NOT a tested and listed configuration.

3. How do FRPS products provide cost savings?

FRPS enclosures not only keep you in compliance of the fire code requirements, but they provide substantial cost savings. When using FRPS enclosures, contractors avoid the stacking of trades and the retracing of their steps 3-4 times on a job site. This gives them full control of their labor costs and secures bottom line profits.

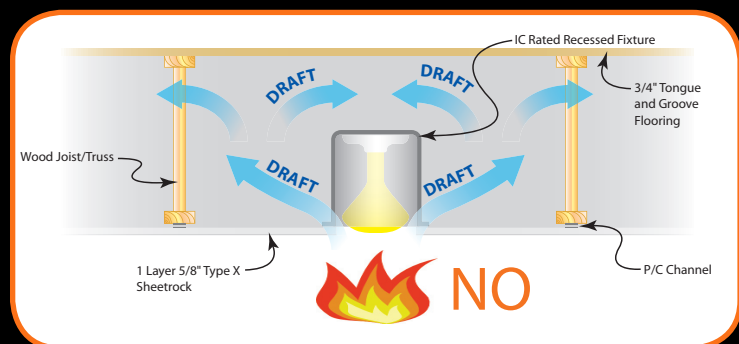
4. How do FRPS enclosures differ from other enclosures?

FRPS enclosures have all been FIRE TESTED. Always ask your wholesaler or manufacturer for the fire test listing number. This will ensure that the product has been FIRE TESTED and is APPROVED to be used in the qualified fire rated assembly. "Classified" IS NOT equivalent to "Tested and Approved, Listing # xxxxxx".

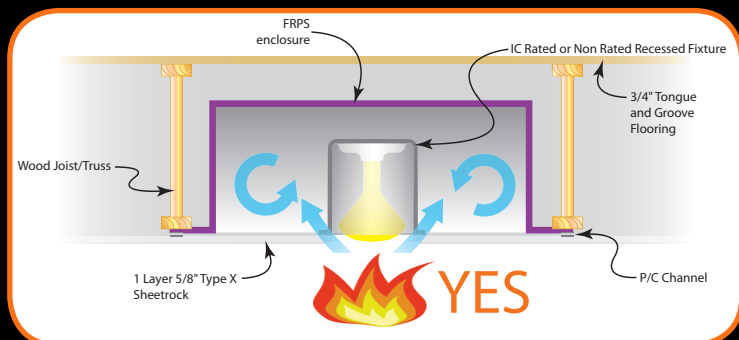
W/N No. 20182



Code Compliance is not an option - it's the Law.



NON-COMPLIANT ASSEMBLY



COMPLIANT ASSEMBLY



FAQ's

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Fire Compliance is the law. The 2006 International Building Code Section 712.4.1.2 (Page 104) states:

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Tested and listed by
Intertek/Warnock Hersey
Testing Laboratories
W/N #21082





FIRE RATED PRODUCT SPECIALTIES CORP



[Our original FN-Z-12-20-9 enclosure \(light not included\)](#)



FRPS has been producing fire protection enclosures since 2002. Initially only for recessed lighting fixtures, our product line has expanded to include solutions for HVAC exhaust fan applications, speaker and low voltage control enclosures in side walls, plumbing feeds for shower valves and recessed washer boxes, and insulation protection in unconditioned attic cavities.

- Omega Point Laboratories, a national testing agency, certified the **FRPS** fire enclosure to fire test standards on April 25, 2002. In addition, **FRPS** was labeled to fire test standards by Omega Point Laboratories. And last, **FRPS** is also listed and labeled with Intertek & Warnock Hersey.
- **FRPS** is a privately owned corporation headquartered in Minneapolis, MN. The building products division designs and develops products for the building industry, with a focus on solutions to help architects and contractors meet safety and fire codes.

General Contractors/Builders:

- With **FRPS** fire enclosures you can save hundreds of labor hours and tens of thousands of dollars in a typical commercial building. Rather than needing four trades to build double-layered sheetrock boxes and install recessed lights, your electrical contractors can do it all.
- **FRPS** fire enclosures allow you to comply with commercial building codes and fire safety standards.
- **FRPS** fire enclosures are available now. For more information on where you can purchase **FRPS** fire enclosures, go to www.FRPSonline.com.

Architects:

- Specify **FRPS** fire enclosures in your commercial building designs to comply with commercial building codes and fire safety standards.
- **FRPS** fire enclosures allow you more flexibility in achieving your design ideas for recessed lighting.
- The **FRPS** fire enclosure fits within standard 16" and 24" on-center applications.

Distributors:

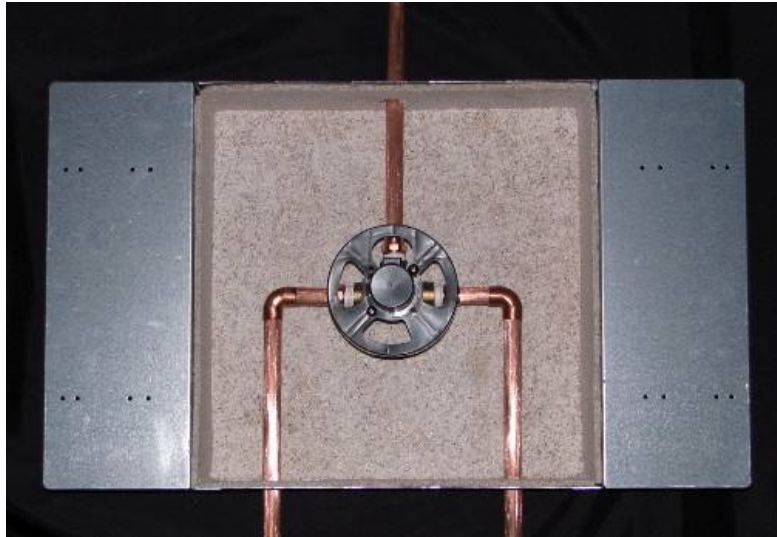
- You have an opportunity to expand your distribution lines with an industry-first product that will revolutionize the way canned lights are installed in commercial buildings.
- **FRPS** has the potential of becoming a very high-volume SKU number for your business because hundreds are installed on the average job. In a year, you could easily sell several hundred thousand **FRPS** fire enclosures.
- **FRPS** provides sales literature, hands-on marketing support and training to help you educate your customers on this new product.
- For more information on how to become a distributor, go to www.FRPSonline.com.

Electrical Contractors:

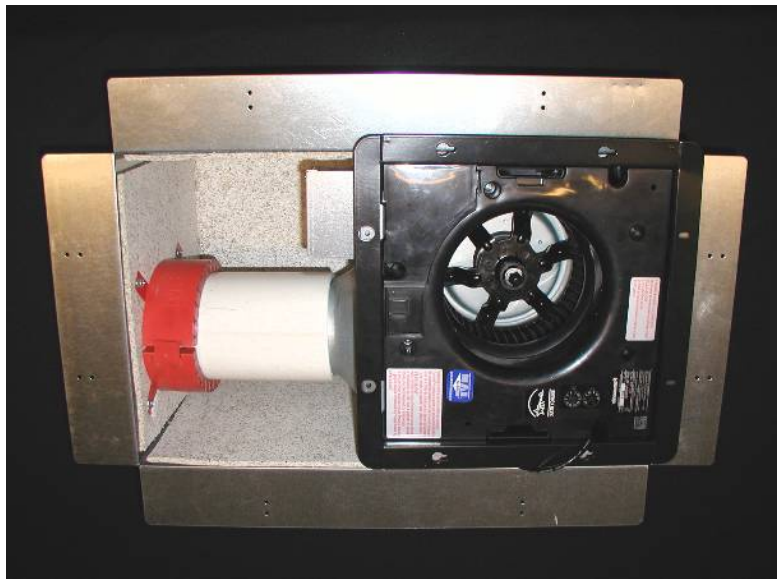
- The **FRPS** fire enclosure installs simply in a few minutes with four drywall screws. It has a 2-5/8" nailing flange for easy mounting and features four knockouts for wiring flexibility.
- **FRPS** fire enclosures come packaged six pieces per carton with a tapered nesting design, so they transport and store easily.
- **FRPS** fire enclosures eliminate the need to coordinate with other trades to install recessed lighting, providing you with more flexibility in getting the job done.

Inspectors:

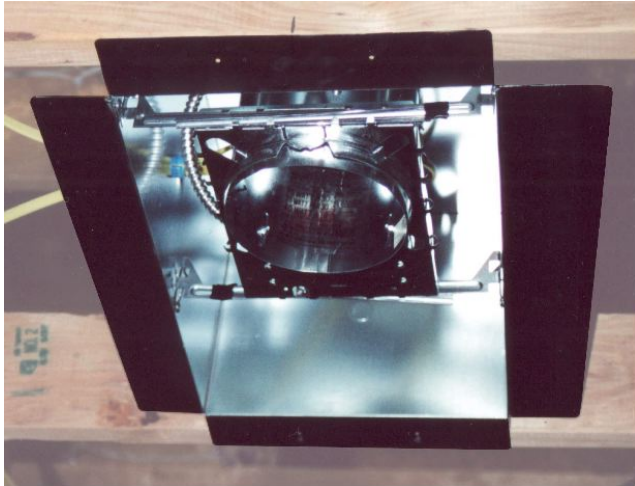
- The **FRPS** fire enclosure has a one-hour fire-rating and is certified to ASTM E119-00a Standard Methods of Fire Tests of Building Construction and Materials.
- Omega Point Laboratories, the certifying agency for this product, can be found on the ICBO web site as a recognized testing agency. Intertek & Warnock Hersey is also a listing agency of **FRPS**.
- **FRPS** fire enclosures can help contractors comply with fire code requirements.
- **FRPS** fire enclosures can reduce your inspection time for recessed lights. It's easily identifiable with an embossed stamp on the metal box noting that it is certified.



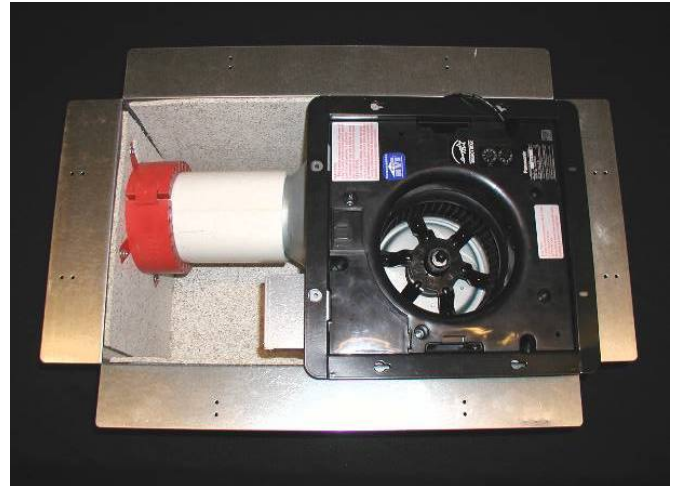
[Our FN-Z-14-14-3 enclosure \(plumbing not included\)](#)



[Our FN-Z-12-20-9-EXH enclosure \(fan not included\)](#)



Down lights, LEDs, Fluorescent, Incandescent
(compatible with most manufacturers' models)



HVAC exhaust fan applications in floor/ceiling assemblies
(compatible with most manufacturers' models)

DON'T BE FOOLED BY IMITATIONS ! All FRPS products have been fire tested, approved, listed, and labeled by certified testing agencies. Through special markings, each and every box can be linked to an exact production date and manufacturing location. Even the metal used is traceable back to the steel mill that produced it to specific chemistries and dimensional tolerances.

FRPS FIRE ENCLOSURES CAN BE USED IN MANY APPLICATIONS:

- Down lights, LEDs, Fluorescent, Incandescent (*IC rated not required*)
- Insulation protection in unconditioned attic cavities
- HVAC exhaust fan applications in floor/ceiling assemblies – compatible with most manufacturers' models (for bathrooms, laundry rooms, furnace rooms)
- Speaker enclosures in fire rated side walls
- Low voltage controls in fire rated side walls
- Plumbing feeds for shower valves, recessed washer boxes and water supply valves in vertical walls

Easy to install (just 4 drywall screws)

Easy to meet fire codes (see listings below)

Easy to save time and money (eliminate the stacking of trades)

SPECIFICATIONS

ASTM E-119

ANSI – A2.1

UL 263

UBC 7.1 Sect 710

LISTINGS

CAN 45-101

Intertek Testing Laboratories: Design No. FC 114

UL Resistance Directory: Design No. UL CBI/FCA
(60-01 compliance)



Code Requirements

U.S. Codes

The 2006 International Building Code Section 712.4.1.2 (Page 104) states:

“Penetrations of membranes that are part of a fire-resistance-rated horizontal assembly shall comply with section 712.1.1.1 or 712.4.1.1.2. Where floor/ceiling assemblies are required to have a minimum 1-hour fire-resistance rating, recessed fixtures shall be installed such that the required fire resistance will not be reduced.”

The 2003 International building Code Section 712.4.1.2 (Page 98) states:

“Penetrations of membranes that are part of a fire-resistance-rated horizontal assembly shall comply with section 712.1.1.1 or 712.4.1.1.2. Where floor/ceiling assemblies are required to have a minimum 1-hour fire-resistance rating, recessed fixtures shall be installed such that the required fire resistance will not be reduced.”

The Uniform Building Code (UBC) in Section 710 which states:

“When materials are incorporated into an otherwise fire-resistive assembly that may change the capacity for heat dissipation, fire test results or other substantiating data shall be made available to the building official to show that the required fire-resistive time period is not reduced.”

The 2006 International Building Code Section 703.2 Fire-resistance ratings states:

“The fire-resistance rating of building elements shall be determined on accordance with the test procedures set forth in ASTM E 119 or in accordance with Section 703.3. Where materials, systems or devices that have not been tested as part of a fire-resistance-rated assembly are incorporated into the assembly, sufficient data shall be made available to the building official to show that the required fire-resistance rating is not reduced. Materials and methods of construction used to protect joints and penetrations in fire-resistance-rated building elements shall not reduce the required fire-resistance-rating.”

Code Requirements (cont.)

The 2008 National Electrical Code (NEC) in Section 640.25 Loudspeaker Installation in Fire-Rated Partitions, Walls, and Ceilings:

“Loudspeaker installed in a fire-resistance-rated partition, wall, or ceiling shall be listed for that purpose or installed in an enclosure or recess that maintains the fire resistance rating.”

U.K. Codes

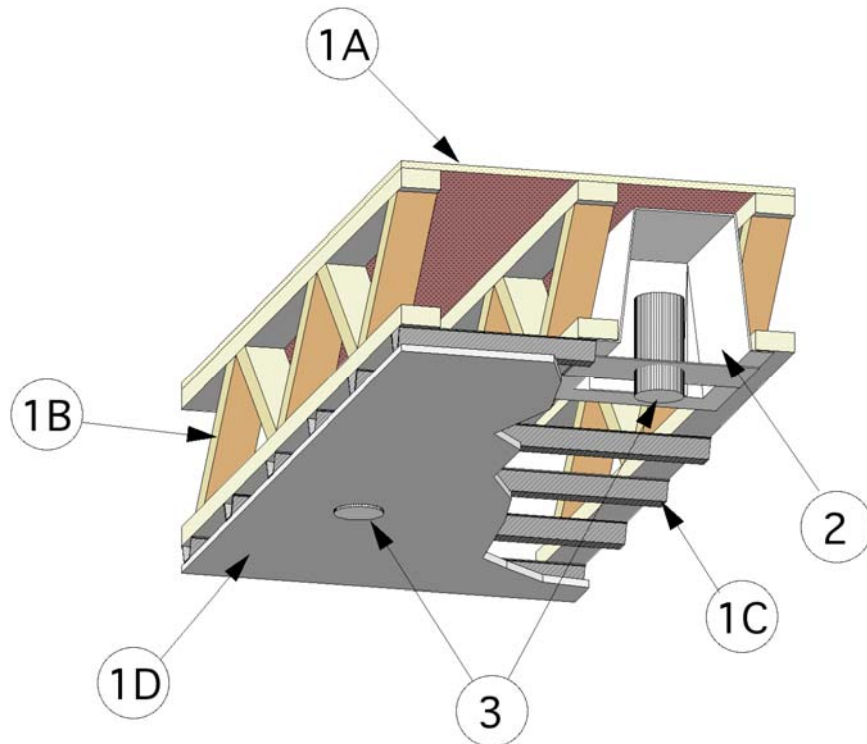
The Building Regulations 1991 Approved Document B Fire Safety 2000 Edition Section 11.2 states:

“If fire separating element is to be effective, then every joint, or imperfection of fit, or opening to allow services to pass through the element, should be adequately protected by sealing or fire-stopping so that the fire resistance of the element is not impaired.”

The Building Standards (Scotland) Regulations 1990, Amendment 5, 1991 Technical Standard Part D, Section D5.1 states:

“Service openings must be suitably constructed, or the services suitably protected, so that in the event of fire the fire resistance required for the fire division is maintained.”

Design Number FRPS/FME 60-02
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:

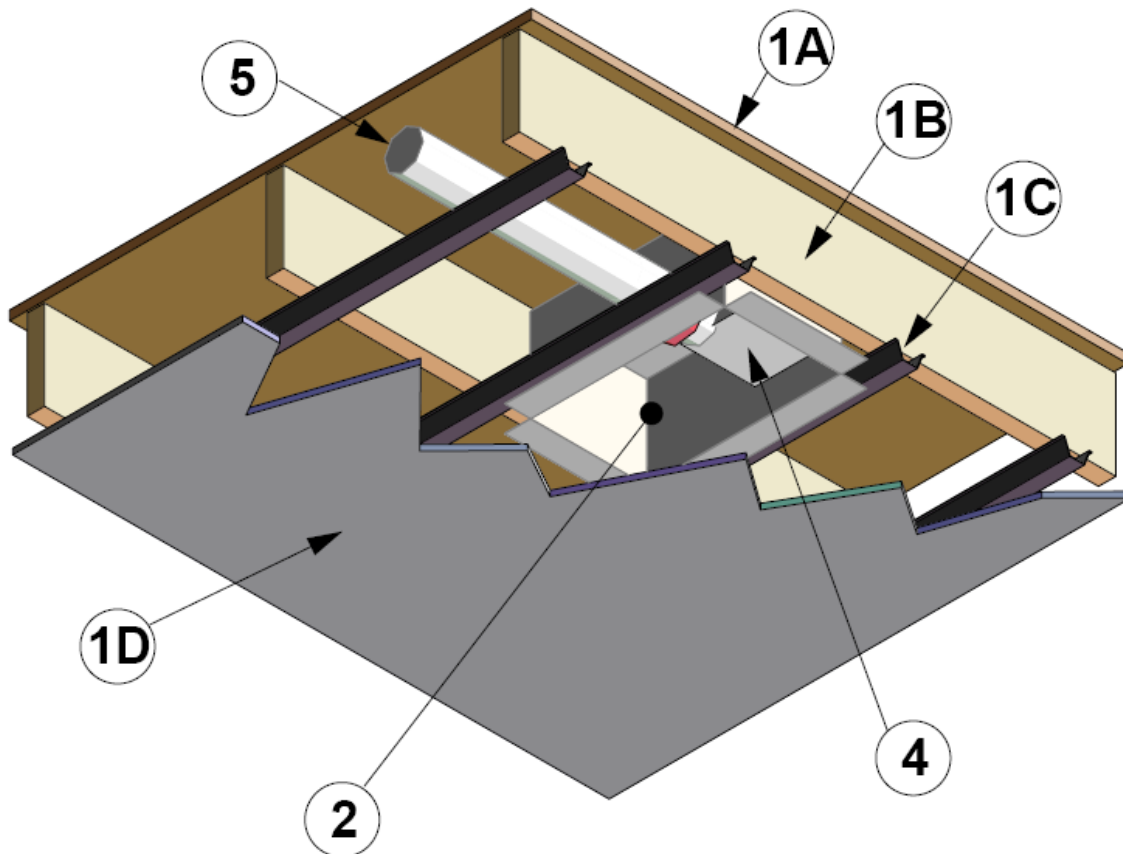
- A. Plywood subfloor: Nominal 23/32 inch thick interior grade plywood with tongue-and-groove edges along the 8 foot sides. Long dimension of panels, or face grain of plywood, to be perpendicular to trusses with joints staggered. Plywood is secured to top side of truss assembly (Item 1B) with No.

6d common nails spaced maximum 12 inches OC.

- B. Trusses: Parallel chord trusses spaced a maximum of 24 inches OC fabricated of nominal 2 inches x 4 inches lumber with lumber oriented vertically or horizontally. Truss members are secured with No. 20 MSG galvanized steel truss plates.
- C. Resilient Channels: Formed from nominal 26 GA galvanized steel, spaced 16 inches OC and applied

- perpendicular to the trusses. Channel is secured to the trusses with 1-1/4 inches long steel wood screws. Channel overlapped at splices a minimum of 4 inches. Channel is removed in locations where the recessed light cover (Item 2) is located.
- D. Gypsum Wallboard: Nominal 5/8 inch Type X gypsum wallboard is secured to the underside of the resilient channel (Item 1C) with 1 inch long wallboard screws spaced max 12 inches OC and located 1-1/2 inches from side and end joints. 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 LIGHT COVER:** Constructed of nominal 24 GA galvanized steel and having nominal dimensions 20 inch long x 12 inch wide x 9-1/2 inch deep and having nominal 2-1/2 inch wide flanges. Position the box inverted and recessed into the floor 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 spaced at pre-drilled locations on the flanges. The boxes may be installed in the floor with the following provisions:
- Maximum 2 fixtures within 36 square foot area.
 - Minimum OC fixture spacing of 24 inches within same truss cavity.
 - Minimum center-to-center fixture spacing of 34 inches for adjacent truss cavities.
3. **RECESSED LIGHT FIXTURE:** Standard canister-style recessed light assembly installed in accordance with manufacturer's instructions. Standard 3C-12AWG "Romex" wire is fixed to the assembly and exits the recessed light cover (Item 2) through a maximum of two openings.
4. **FIRESTOP SEAL:** (Not shown) Apply a bead of firestop fill void or cavity material** around the power supply wire where it exits the recessed light cover (Item 2).(**Listed with Intertek).

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

Division 05 – Metals

05 58 00 - Formed Metal Fabrications

05 58 16 Formed Metal Enclosures

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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.

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.

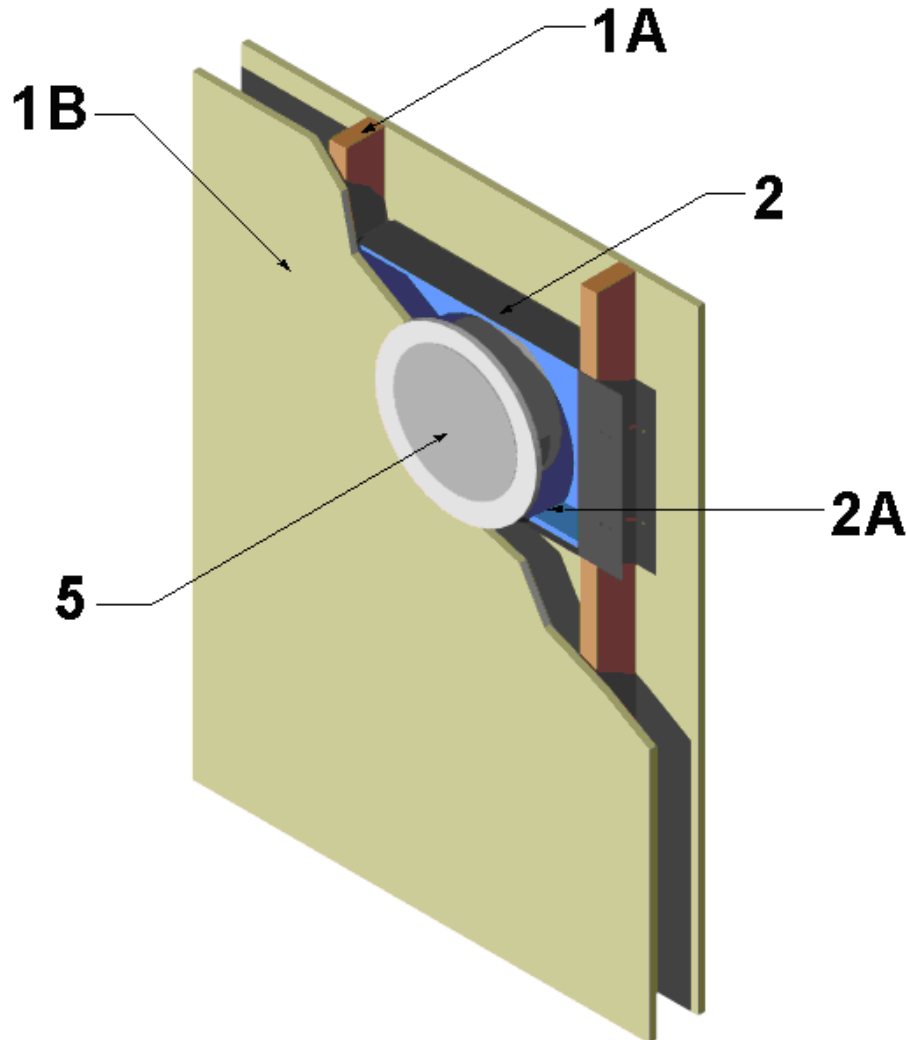
5. EXHAUST DUCT: Nom. 3-inch diameter metal exhaust pipe connected to Recessed Exhaust Fan Cover with a minimum of four 1/4-inch x 2-inch long steel screws.

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 annular space at the penetration through the floor/ceiling assembly. (***)Listed with Intertek).

Design Number FRPS/FME 60-01
NON-LOADBEARING WALL
Fire Rated Product Specialties Corp
FN-Z-14-14-3 Fire Enclosure
ASTM E 119
Assembly Rating – 1 Hour
F-Rating – 1 Hour



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

- A. Wood Studs: Install number 2 Grade Douglas Fir 2-inch x 4-inch wood studs spaced maximum 16 inches on center between a double wood stud top plate and single wood stud bottom plate with horizontal 2-inch x 4-inch 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 inches on center.

- B. Gypsum Board: Attach one layer of 5/8-inch thick, Type X gypsum board on each face. Locate butt joints over studs and offset butt joints on opposite sides maximum 24 inches. Attach to wood studs

Division 05 – Metals

05 58 00 - Formed Metal Fabrications

05 58 16 Formed Metal Enclosures

Page 2 of 2

- (Item 1A) with Number 6 x 1-5/8 inch long coarse thread screws, spaced minimum 8-inches on center around the perimeter and minimum 12-inches on center 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-inch 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 inches 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: Formed Metal Fabrications
MODEL: FN-Z-14-14-3 Fire Enclosure
- RECESSED SPEAKER BOX COVER SYSTEM: Construct an open box using nominal 24 GA galvanized steel and having nominal dimensions of: 24-inches long x 14-inches wide x 3-1/4 inches deep, having two nominal 5 inch wide flanges on the short edges. Position the box in wall cavity with flanges over wood studs (Item 1A). Secure the flanges of the box to the wood studs (Item 1A) with 1-inch 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 Recessed Speaker Box Cover System 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-inch 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-inch long K-lath screws inserted through 1-inch diameter galvanized steel washers. Attach a minimum of 2 screws per interior face. All interior surfaces must be covered with intumescent material.
3. ELECTRICAL WIRING (Not Shown):
Insert maximum 12 GA electrical power wiring into the pre-punched hole of the recessed speaker box cover system (Item 2). Seal penetration 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 recessed speaker box cover system (Item 2).
5. SPEAKER: Nominal 3-3/4-inch depth x 9-3/4-inch diameter. Cut a maximum 8-5/8-inch diameter hole into the gypsum board (Item 1B) and install speaker in accordance with manufacturer's instructions.



FIRE RATED PRODUCT SPECIALTIES CORP

ARCHITECTURAL SPECIFICATIONS

FIRESTOPPING ENCLOSURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Recessed Light Fire Enclosures.
- B. Recessed Bath Fan/Light Fire Enclosures.
- C. Recessed Speaker Fire Enclosures.

1.2 RELATED SECTIONS

- A. Section 06112 - Framing and Sheathing.
- B. Section 06173 - Wood Trusses.
- C. Section 07900 - Joint Sealant.
- D. Section 09210 - Gypsum Plaster.
- E. Section 09260 - Gypsum Board Assemblies.
- F. Section 09900 - Paints and Coatings.
- G. Section 16120 - Electrical Supply and Termination.
- H. Section 16123 - Building Wire and Cable.

1.3 REFERENCES

- A. ASTM E 119 - Standard Methods of Fire Tests of Building Construction and Materials.
- B. ANSI A2.1 - Fire Test of Building Construction Materials.
- C. NFPA 251 - Standard Methods of Tests of Fire Endurance of Building Construction and Materials.
- D. UL 263 - Fire Tests of Building Construction and Materials.
- E. Intertek Directory of Listed Products.

1.4 PERFORMANCE REQUIREMENTS

- A. One hour fire-resistance-rated horizontal assemblies including floors, floor-ceiling assemblies, vertical wall assemblies and ceiling membranes of roof-ceiling assemblies to be constructed as described by Warnock Hersey/Omega Point

Laboratories/Intertek Testing Laboratories Fire Resistance Directory, as tested and listed by Omega Point Laboratories, Inc. 2003 Product Directory, Floor/Ceilings Design Number specified for 1 hour.

- B. Membrane fire barrier tests to maintain fire resistance rating of fire-rated assemblies shall comply with the following tests.
 - 1. ASTM E 119 - Standard Methods of Fire Tests of Building Construction and Materials.
 - 2. UL 263 - Fire Tests of Building Construction and Materials.
 - 3. NFPA 251 - "Standard Methods of Tests of Fire Endurance of Building Construction and Materials."
 - 4. UBC 7-1. Section 710 for Floor Ceilings or Roof Ceilings: "Fire-resistive floors, floor-ceiling or roof-ceiling assemblies shall be assumed to have the fire resistance ratings set forth in Table 7-C. When materials are incorporated into an otherwise fire-resistive assembly that may change the capacity for heat dissipation, fire test results or other substantiating data shall be made available to the building official to show that the required fire-resistive time period is not reduced."
 - 5. ANSI A2.1 Fire Test of Building Construction Materials.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: For each fire barrier system, show each type of construction condition penetrated, relationships to adjoining construction, and type of penetrating item.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Firm experienced in installing membrane-penetration fire barrier systems with the necessary experience, staff, and training to install manufacturer's products.
- B. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish area designated by Architect.
 - 2. Do not proceed with remaining work until workmanship is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Receive and store products in original, unopened containers or packages with intact and legible manufacturers' labels identifying product and manufacturer, date of manufacture, lot number, qualified testing and inspecting agency's classification marking applicable to project.
- B. Store products in manufacturer's unopened packaging until ready for installation.

1.8 SEQUENCING

- A. Ensure that installation instructions and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.

1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Coordinate construction of openings and penetrating items to ensure that membrane-penetration firestop systems are installed according to specified requirements.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Fire Rated Product Specialties Corp (FRPS), which is located at: 901 N. 3rd St. Suite 130 ; Minneapolis, MN 55401; Tel: 612-294-1450; Fax: 612-436-0608; Email: [request info](#); Web: www.FRPSonline.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 RECESSED LIGHT FIXTURE MEMBRANE FIRE BARRIER SYSTEMS

- A. Application: Membrane-penetration fire barrier system shall be compatible with the structure and in compliance with structural systems and clearances required by the manufacturer to maintain a one hour fire rated enclosure complying with the performance requirements specified. Enclosure is suitable for interior and exterior applications. Complies with ASTM E 119 Warnock Hersey/Omega Point Laboratories/Intertek Testing Laboratories Fire Resistance Directory Design Number Design No. FRPS/FME 60-02.
- B. Membrane fire barrier enclosure material shall be formed, corrosion-resistant metal, nominally 24 gauge.
 - 1. Internal Dimensions: 20-1/8 inches (511 mm) long by 12 inches (305 mm) wide by 9-1/2 inches (241 mm) deep.
 - 2. Flanges: Provided with 2-1/2 inch (64 mm) mounting flanges.
 - 3. Electrical Knockouts: 4 provided.
 - 4. Firestop Seal: Affix wire with connector to knockout and fire caulk open area around connector and knockout.
- C. Overall features: membrane fire penetration light fixture system as manufactured by Fire Rated Product Specialties Corp (FRPS) shall be engineered to fit within either 24 inches (610 mm) or 16 inches (406 mm) on center structural elements as described in the written installation material.
- D. Enclosure Penetrations: Only the use of designed penetrations of the FRPS membrane-penetration fire barrier system is permitted to maintain the one hour fire rated enclosure. Penetrations of the membrane fire barrier is allowed for power wiring as described on the written manufacturer's installation sheet.
 - 1. All power wiring must meet the requirements of the National Electric Code

- and the authority having jurisdiction.
- 2. Penetrations of the membrane fire barrier system shall be made only at factory designated knock-out locations and in conformance with the manufacturer's written installation instructions.
- 3. A maximum of two standard 3C-12AWC "Romex" wires shall penetrate the enclosure as per the FRPS written installation instructions.

2.3 BATH FAN/LIGHT FIRE BARRIER SYSTEMS

- A. Application: Membrane-penetration fire barrier system shall be compatible with the structure and in compliance with structural systems and clearances required by the manufacturer to maintain a one hour fire rated enclosure complying with the performance requirements specified. Complies with ASTM E 119 (modified), UL Fire Resistance Directory Design Number Design No. FRPS/FME 60-03.
- B. Membrane fire barrier enclosure material shall be formed, corrosion-resistant metal, nominally 24 gauge, with an intumescent liner. and shall not be field modified.
 - 1. Internal Dimensions: 19-3/4 inches (502 mm) long by 11-3/4 inches (298 mm) wide by 9-3/8 inches (238 mm) deep.
 - 2. Flanges: Provided with 2-5/8 inch (67 mm) mounting flanges.
 - 3. Electrical Knockouts: 4 provided.
 - 4. Exhaust Duct Outlet: Suitable for 3 inch (76 mm), 4 inch (102 mm) and 6 inch (152 mm) ducts. Provided with a metal connector ring lined with intumescent material, metal duct reducer and PVC pipe.
 - 5. Firestop Seal: Affix wire with connector to knockout and fire caulk open area around connector and knockout.
- C. Overall features: membrane fire penetration bath fan/light system as manufactured by Fire Rated Product Specialties Corp (FRPS) shall be engineered to fit within either 24 inches (610 mm) or 16 inches (406 mm) on center structural elements as described in the written installation material.
- D. Enclosure Penetrations: Only the use of designed penetrations of the FRPS membrane-penetration fire barrier system is permitted to maintain the one hour fire rated enclosure. Penetrations of the membrane fire barrier is allowed for power wiring as described on the written manufacturer's installation sheet.
 - 1. All power wiring must meet the requirements of the National Electric Code and the authority having jurisdiction.
 - 2. Penetrations of the membrane fire barrier system shall be made only at factory designated knock-out locations and in conformance with the manufacturer's written installation instructions.
 - 3. A maximum of two standard 3C-12AWC "Romex" wires shall penetrate the enclosure as per the e.z. barrier written installation instructions.

2.4 SIDE WALL ENCLOSURE FIRE BARRIER SYSTEMS

- A. Application: Membrane-penetration fire barrier system shall be compatible with the structure and in compliance with structural systems and clearances required by the manufacturer to maintain a one hour fire rated enclosure complying with the performance requirements specified. Complies with ASTM E 119 Warnock Hersey/Omega Point Laboratories/Intertek Testing Laboratories Fire Resistance Directory Design Number Design No. FRPS/FME 60-01.
- B. Membrane fire barrier enclosure material shall be formed, corrosion-resistant metal, nominally 24 gauge, with an intumescent liner. and shall not be field modified.
 - 1. Internal Dimensions: 13-1/2 inches (343 mm) long by 13-1/2 inches (343 mm) wide by 3 inches (76 mm) deep.

2. Flanges: Provided with 5 inch mounting flanges.
 3. Electrical Knockouts: 4 provided.
 4. Firestop Seal: Affix wire with connector to knockout and fire caulk open area around connector and knockout.
- C. Overall features: membrane fire penetration speaker system as manufactured by Fire Rated Product Specialties Corp (FRPS) shall be engineered to fit within either 24 inches (610 mm) or 16 inches (406 mm) on center structural elements as described in the written installation material.
- D. Enclosure Penetrations: Only the use of designed penetrations of the FRPS membrane-penetration fire barrier system is permitted to maintain the one hour fire rated enclosure. Penetrations of the membrane fire barrier is allowed for speaker wiring as described on the written manufacturer's installation sheet.
1. All wiring must meet the requirements of the National Electric Code and the authority having jurisdiction.
 2. Penetrations of the membrane fire barrier system shall be made only at factory designated knock-out locations and in conformance with the manufacturer's written installation instructions.
 3. A maximum of two standard 3C-12AWC "Romex" wires shall penetrate the enclosure as per the FRPS written installation instructions.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify that substrates and conditions are in compliance with manufacturer's recommendations and with requirements for opening configurations.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Remove penetrating items and foreign materials that could interfere with the proper installation of the membrane fire barrier systems from surfaces of opening substrates.
- B. Clean opening substrates and penetrating items to produce clean, sound surfaces capable of allowing installation in compliance with the manufacturers written installation instructions.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Mounting of membrane fire barrier enclosure shall be in full compliance with manufacturer's published mounting recommendations and include four drywall screws a minimum of 1-1/4 inch (32 mm) in length fully bored into the structural elements at predrilled locations in the flanges of the membrane fire barrier. Required drywall mounting channels shall be mounted after the membrane fire barrier is installed as per Warnock Hersey/Omega Point Laboratories/Intertek Testing Laboratories Fire Resistance Directory Design Number specified.

- C. There shall be a maximum of two membrane fire barrier enclosures located within any 36 square foot (3 sm) area of the ceiling.
- D. Minimum of 24 inches (610 mm) on center spacing within any single truss cavity.
- E. Minimum of 34 inches (864 mm) center-to-center fixture spacing for adjacent truss cavities.
- F. Firestop seal shall be applied to fill voids or cavities around the power supply wire where it exits the recessed FRPS membrane-penetration fire barrier system as specified in the manufacturer's written instructions.

3.4 FIELD QUALITY CONTROL

- A. Installer shall inspect each membrane fire barrier installation for conformance with manufacturer's written installation instructions. Proceed with enclosing membrane-penetration fire barrier systems with other construction only after complete inspection for compliance with manufacturer's written installation procedures has been confirmed.

3.5 CLEANING AND PROTECTING

- A. Clean off excess fill materials adjacent to openings as work progresses by methods and with cleaning materials that are approved in writing by FRPS membrane-penetration fire barrier system and that do not damage materials in which openings occur.
- B. Provide final protection and maintain conditions during and after installation that ensure that membrane-penetration fire barrier systems are without damage or deterioration at time of substantial completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated membrane-penetration fire barrier system immediately and install new materials to produce systems complying with specified requirements.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

3.7 SCHEDULES

- A. :
- B. :

END OF SECTION



TRAINING & EDUCATION

FRPS Corp offers several valuable training programs throughout the year. These programs have been designed around the learning needs of those who require an understanding of fire code requirements as they pertain to passive fire protection.

Our training is targeted to those disciplines that are required to work primarily with passive fire protection applications; i.e. general contractors, mechanical, plumbing, electrical, and low voltage contractors. These disciplines would also include architects, specifiers, distributors, insurance representatives, and fire & building code officials.

Email us at info@FRPSonline.com for more information.

Tested and listed by
Intertek/Warnock Hersey
Testing Laboratories
W/N #21082



**DELIVERED PRICING – 60 unit minimum for prepaid freight**

STOCKING DISTRIBUTOR PRICING ONLY – *For non stocking distributors and drop shipments, add \$5.00 per unit on all pricing schedules*

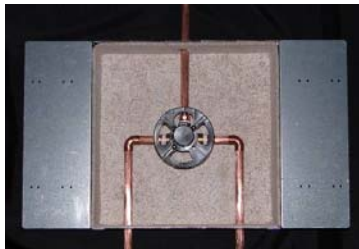
Terms: Net 10 Days

PRODUCT #	DESCRIPTION		
FN-Z-12-20-9	1 hr fire-rated enclosure for lighting (<i>fixture not included</i>)	6 pieces per carton	Call for Pricing



- * LEDs
- * Downlights
- * Compact Fluorescents
- * Incandescents

PRODUCT #	DESCRIPTION		
FN-Z-14-14-3	1 hr fire-rated enclosure for side walls (<i>i.e. speakers, plumbing</i>)	6 pieces per carton	Call for Pricing



- * Water supply shutoff valves
- * Shower and bathtub valves
- * Washer boxes
- * Icemaker water feeds
- * Speakers
- * Low voltage controls and panels
- * Exit signs

PRODUCT #	DESCRIPTION		
FN-Z-12-20-9-EXH	1 hr fire-rated enclosure for exhaust fans (<i>fans not included</i>)	4 pieces per carton	Call for Pricing



- * For exhaust fans up to 110 CFM.
- * Specify 3" or 4" duct work
- * Pricing includes enclosure, PPD ring, PVC pipe, and I-10 intumescent mat

Coming soon - - - TROFFERS!



FIRE RATED PRODUCT SPECIALTIES CORP

901 No. 3rd St. Suite 130
Minneapolis, MN 554401
Phone: 612.294.1450 Fax: 612.436.0608
www.FRPSonline.com

CREDIT APPLICATION

Business Information

Name of Business: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
Type of Organization: Individual _____ Partnership _____ Corporation _____
Years in business: _____
Owner/Officers:
Name: _____ Title: _____
Name: _____ Title: _____

Bank Information

Bank Name: _____ Phone: _____
Address: _____
City: _____ State: _____ Zip: _____
Account Number: _____

Trade References

Company Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
Account Number: _____

Company Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
Account Number: _____

Terms: Net 10 days after date of invoice

I have read and agree to the above terms as stated above.

Authorized Signature: _____ Date: _____
Title: _____



FIRE RATED PRODUCT SPECIALTIES CORP

901 No. 3rd St. Suite 130

Minneapolis, MN 554401

Phone: 612.294.1450 Fax: 612.436.0608

www.FRPSonline.com

Credit Agreement & Terms

Date: _____

1. Customer Information:

Complete Legal Name of Firm _____

Mailing Address _____

City/State/Zip _____

Billing Address (if different) _____

Business Phone No. _____

Fax No. _____

2. Business Type: () Corporation () Partnership () LLC

State of Incorporation/Organization: _____

() Sole Proprietorship - - Owner's Full Name and SS#: _____

3. Principals (Owners/Officers)

Name	Address	SS#
------	---------	-----

Name	Address	SS#
------	---------	-----

Name	Address	SS#
------	---------	-----

Name	Address	SS#
------	---------	-----

4. Accounts Payable Contact _____
(Name) (Phone No.)

5. This firm has been in business since (year) _____

6. Trade References (Please list Major Vendors (Name, Address, City, Zip, Contact))

A. _____	B. _____	C. _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Phone: _____	Phone: _____	Phone: _____
Fax: _____	Fax: _____	Fax: _____

7. Bank _____ Account# _____
Address _____

8. Are Purchase Orders Required? () Yes () No

9. Do you accept Back Orders? () Yes () No

10. Special billing requirements? () Yes () No If yes, please explain. _____

11. Tax Exempt? () Yes () No A copy of a Tax Exempt Certificate MUST be on file.
Tax Exempt Number _____

12. Financial Statement: Unless otherwise waived, please attach a copy of your current Financial Statement.

13. Collection Costs. Customer and/or the Personal Guarantor(s) shall be liable for all collection costs, including employee time and expense and all attorneys' fees and cost and disbursements incurred in collecting the amounts owing to FRPS Corp and the protection of FRPS Corp interests in past due accounts whether or not legal proceedings are actually filed. The parties expressly agree that if FRPS Corp refrains from collecting interest due on customer's account in a given case this shall not be deemed a waiver, modification or other limitation on FRPS Corp. right to collect such interest in future dealings with Customer herein or any other Customer.

14. Dispute Resolution. Customer and/or the Personal Guarantor(s) agrees that the exclusive venue, forum and jurisdiction governing all actions on this agreement or otherwise between the Customer and/or the Personal Guarantor(s) and FRPS Corp shall be in Hennepin County, Minnesota and that Minnesota law shall govern any and all disputes or litigation between the Customer and/or the Personal Guarantor(s) and FRPS Corp The Customer and/or the Personal Guarantor(s) hereby agree to waive any and all defenses based on lack of personal jurisdiction or improper venue or forum in any such action(s).

15. Security Interest. FRPS Corp. retains a security interest in any and all goods, wares, and/or merchandise supplied to Customer. The risk of loss regarding any and all goods, wares, and/or merchandise supplied to Customer shall pass to Customer upon FRPS Corp's agreement to supply the goods requested. FRPS Corp reserves the right to cancel any orders or otherwise refuse any request for goods by Customer or any other individual or entity at any time for any reason.

16. Finance Charges. Customer understands and agrees to the following credit terms: Balance is due upon order or invoice. A monthly service charge of 1.5% of the total amount owing will be charged on all past due accounts.

17. Shipping, Re-Stocking Fees and Return Goods Charges. Customer is liable for shipping costs and charges billed by FRPS Corp and/or its delivery carrier. Customer is solely liable for these charges. The return of any merchandise shipped at the request of Customer shall subject Customer to liability for all shipping charges for delivery to Customer and return delivery to FRPS Corp. The return of goods ordered shall also be subject to standard restocking fees and charges for return of goods sold, if applicable.
18. Dishonored Checks. Customer shall be liable for all bank fees charged for dishonored checks tendered by Customer. Customer shall be liable for a service charge in the amount of \$30.00 for any dishonored check tendered to FRPS Corp. In addition, the maximum amount of civil penalties under Minnesota law shall be added to the amounts owing for any dishonored checks tendered to FRPS Corp for amounts due and owing.
19. Counterparts and Facsimile Delivery. This Agreement may be executed in one or more counterparts, and by different Parties on different counterparts, each of which shall be deemed an original but all of which together will constitute one and the same instrument. This Agreement shall be effective once one or more counterparts hereof have been executed by each Party hereto, whether or not all such signatures are on the same counterpart. Either Party may deliver an executed counterpart of this Agreement by facsimile transmission and that shall constitute an original.
20. Credit Information. The Customer and the undersigned also understand that FRPS Corp intends to use the information provided in this Credit Agreement to obtain credit information on my/our business and/or me/us (as individuals) in order to make an informed decision on our credit worthiness on an ongoing basis. Further, Customer and the undersigned authorize FRPS Corp to share and release, within its sole and complete discretion, the above information with third parties as is necessary for the approval of credit pursuant to this Agreement release FRPS Corp from any and all liability related thereto. My/Our signatures (s) (below) grants FRPS Corp the authority to fully investigate our credit.
21. Representations and Warranties. The Undersigned represents and warrants that all of the information provided by the Customer is true and correct. The Undersigned represents and warrants that he or she has read, understood, and voluntarily entered into this Agreement. The Undersigned represents and warrants that he or she has the requisite individual and corporate power and authority to enter into this Agreement and to carry out the transactions contemplated.

Owner/Officer's Signature

Date

Owner/Officer's Name & Title (printed or typed)

Owner/Officer's Signature

Date

Owner/Officer's Name & Title (printed or typed)

Personal Guaranty: Unless otherwise waived, FRPS Corp requires a personal guaranty in connection with its credit applications. Please sign the following Personal Guaranty to process this Credit Agreement.

PERSONAL GUARANTY

For good and valuable consideration, the receipt whereof is hereby acknowledged, and further in consideration of the credit given and hereafter to be given by FRPS Corp to the above named Customer in which the Unsigned have a financial interest, that the Undersigned, jointly and severally, hereby personally guarantee to FRPS Corp, its assignees and transferees, the payment of all amounts, invoices or other indebtedness of the Customer whether said amounts, invoices or other indebtedness be incurred before or after the date hereof. This is a continuing guarantee, and the Undersigned agree that all terms and conditions of the Agreement shall be binding on me personally in addition to the Customer.

X: _____
Personal Guarantor

Date

Personal Guarantor's Name (printed or typed)

X: _____
Personal Guarantor

Date

Personal Guarantor's Name (printed or typed)