



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report. This document is the property of Intertek Testing Services and is not transferable. The Certification Mark(s) may be applied only at the location of the Party Authorized to Apply Mark.

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This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Testing Standard{s):	:ASTM E119 (2005a):ASTM E814 (2006):ASTM E119 (2008a):ASTM E814 (2008b):ASTM E119 (2010)
Product:	E.Z. Barrier, Inc EZB 16-24-9, EZB 14-14-3, and EZB EXH Fire Rated Enclosures

ATM for Report Quality Control Manual: G100014748SAT-004 QCM Test Reports: 16562-111085 Test Report, 3098321A Test Report, 3101419SAT-001 Test Report Engineering Evaluations: G100108562SAT-001 EEV Design Listings: EZB/FME 60-01, EZB/FME 60-02, EZB/FME 60-03, EZB/F, 1005

ATM Issue Date: 02/22/2012

Listing Section(s): OTHER PRODUCTS

CSI Code: 05 50 00 Metal Fabrications

Description:

The E.Z. Barrier™ line of fire rated enclosures consist of the EZB 16-24-9, EZB 14-14-3, and EZB EXH. The EZB 16-24-9, when installed can maintain the integrity of a fire rated ceiling and is used to cover ceiling mounted lights. The EZB 14-14-3 is used for in-wall mounted speakers which can also diminish the transfer sound from one room to another. The EZB EXH is used to maintain the integrity of a fire rated ceiling when installing an exhaust fan or fan.

RATINGS

Standard	Rating	Design Number
ASTM E 119	1 Hour	EZB/FME 60-01
ASTM E 119	1 Hour	EZB/FME 60-02
ASTM E 119	1 Hour	EZB/FME 60-04
ASTM E 814	F Rating: 1 Hour T Rating: 1 Hour	EZB/FME 60-03

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**Party(s) Authorized by Other Parties To Apply
Mark:**

None

DRAWING INDEX

2010-01-29 E.Z. Barrier G100014748SAT-005B REV 1 - EZB/FME 60-02 Design Listing

2010-04-05 E.Z. Barrier G100064108SAT-003B - EZB/FME 60-03 Design Listing

2011-10-20 E.Z. Barrier G100511920MID-002A - EZB/FME 60-01 Design Listing

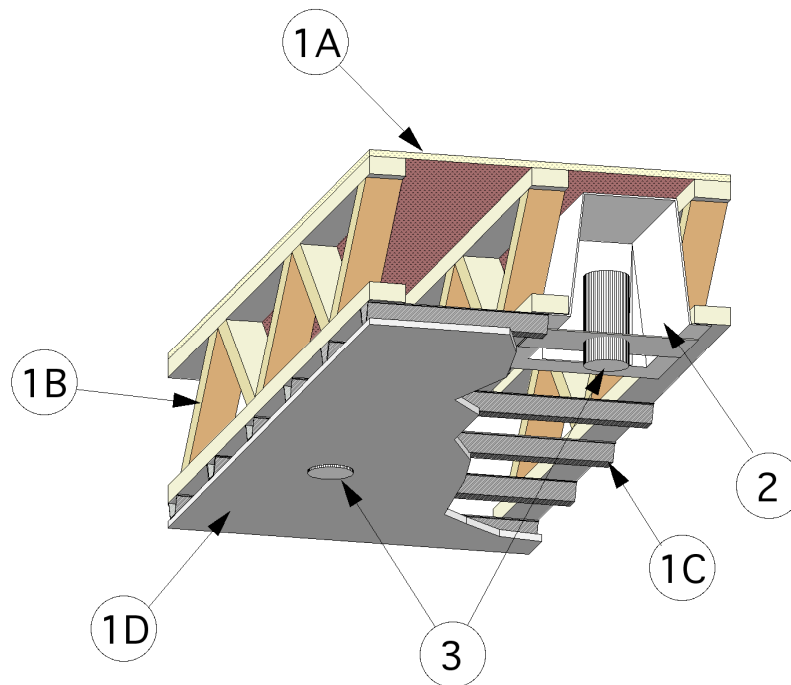
2011-10-20 E.Z. Barrier G100511920MID-002B - EZB/FME 60-04 Design Listing

2010-01-29 E.Z. Barrier G100014748SAT-005B REV 1 - EZB/FME 60-02 Design Listing

Division 05 Metals
05 58 00 Formed Metal Fabrications
05 58 16 Formed Metal Enclosures

Page 1 of 2

Design Number EZB/FME 60-02
NON LOAD BEARING FLOOR / CEILING
E.Z. Barrier, LLC Inc.
E.Z. Barrier™ EZB 16-24-9 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.

Date Revised: January 29, 2010
Project No: G100014748SAT-005B

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2010-01-29 E.Z. Barrier G100014748SAT-005B REV 1 - EZB/FME 60-02 Design Listing (page 2 of 2)

Division 05 Metals
05 58 00 Formed Metal Fabrications
05 58 16 Formed Metal Enclosures

Page 2 of 2

- 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 inch 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 Board: Nominal 5/8 inch Type X gypsum board 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 board in two coats to all exposed fastener heads and gypsum board 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: E.Z. Barrier, Inc
CERTIFIED PRODUCT: Formed Metal Fabrications
MODEL: E.Z. Barrier™ EZB 16-24-9 Fire Rated Enclosure
- 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.
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. FILL, VOID, OR CAVITY MATERIAL: (Not shown) Use only fill, void, or cavity material certified by Intertek, bearing an Intertek label. Apply a bead of fill, void, or cavity material around the power supply wire where it exits the recessed light cover (Item 2).

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Project No: G100014748SAT-005B

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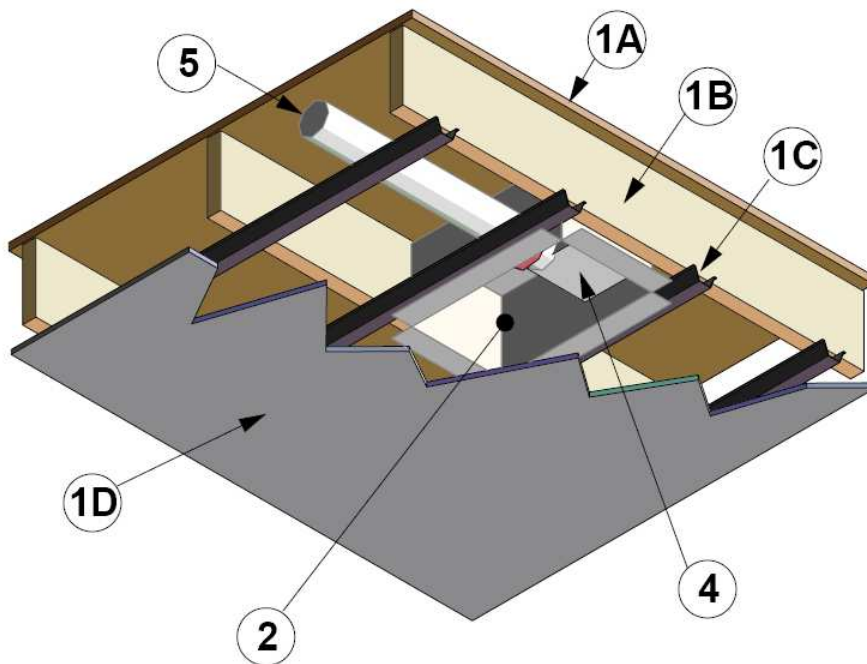
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2010-04-05 E.Z. Barrier G100064108SAT-003B - EZB/FME 60-03 Design Listing

Division 05 Metals
05 58 00 Formed Metal Fabrications
05 58 16 Formed Metal Enclosures

Page 1 of 3

Design Number EZB/FME 60-03
Membrane Penetration Protection for Floor Ceiling Assemblies
E.Z. Barrier, LLC Inc.
E.Z. Barrier™ EZB EXH Fire Rated Enclosure
ASTME814
F Rating: 1 Hour
T Rating: 1 Hour



1. FLOOR CEILING ASSEMBLY:
Construct floor ceiling assembly in the following manner:

A. Plywood Subfloor: Install nominal 23/32-inch thick, interior grade, plywood panels. Align long dimension or face grain of plywood panels, to be perpendicular to wood joists (Item 1B) with joints staggered. Secure plywood panels to top side of wood joist (Item 1B) framing using Number 6d nails spaced maximum 12 inches on-center.

B. Wood Joists: Use nominal 2-inch x 10-inch SYP lumber spaced a maximum of 24-inches on-center. Install wood joists and resilient channels (Item 1C) to form a minimum 12-inch deep cavity from the underside of the plywood subfloor (Item 1A) to the top side of the gypsum board (Item 1D).

C. Resilient Channels: Install channels formed from nominal 26 GA galvanized steel, spaced 16 inches on-center and applied perpendicular

Date Revised: March 31, 2010
Project No: G100064108SAT-003B

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2010-04-05 E.Z. Barrier G100064108SAT-003B - EZB/FME 60-03 Design Listing (page 2 of 3)

Division 05 Metals

05 58 00 Formed Metal Fabrications

05 58 16 Formed Metal Enclosures

to the 2-inch x 10-inch joists (Item 1B). Secure channel to wood joists (Item 1B) using 1-1/4-inch long steel coarse thread wood screws.

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

2. CERTIFIED COMPANY: E.Z. Barrier, Inc.

CERTIFIED PRODUCT: Formed Metal Fabrications

MODEL: E.Z. Barrier™ EZB EXH Fire Rated Enclosure

FIRE RATED ENCLOSURE: Install enclosure 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 enclosure inverted and recessed into the floor/ceiling cavity. Secure the flanges of the box to the underside of the truss assembly (Item 1B) with Number 6, 1-1/4 inch long bugle head screws (a minimum of three screws per flange) spaced at predrilled locations on the flanges. Install the enclosure in the floor/ceiling assembly (Item 1) with the following provisions:

Date Revised: March 31, 2010
Project No: G100064108SAT-003B

Page 2 of 3

- Maximum of one (1) enclosure within 104 square foot area.

3. CERTIFIED COMPANY: 3M Company

CERTIFIED PRODUCT: Applied Fireproofing

MODEL: 3M Interam™ I-10 Series Mat

INTUMESCENT MAT (*Not Shown*): Install one layer of Intumescent mat, lining the interior surface area of the fire rated enclosure (Item 2). Secure mat to fire rated enclosure (Item 2) using either Method A or Method B listed below:

A. Using the pre-punched tabs in accordance with manufacturer's instructions.

CERTIFIED COMPANY: 3M Company

CERTIFIED PRODUCT: Joint Sealants

MODELS: 3M Fire Barrier Water Tight Sealant 1000 NS (nonslump), 3M Fire Barrier Water Tight Sealant 1003 SL (self-leveling), or 3M Fire Barrier 2000+ Silicone Sealant

B. Apply a uniform layer nominally 30-60 mils (0.08 cm – 0.16 cm) thick of silicone sealant to one side of the intumescent mat.

4. RECESSED EXHAUST FAN: Install bathroom exhaust fan/light combination fixture in accordance with manufacturer's instructions.

5. EXHAUST DUCT: Install nominal 3-inch diameter metal exhaust pipe connected to fire rated enclosure (Item 2) with a minimum of four (4), 1/4-inch x 2-inch long, steel screws.

6. SLEEVE EXTENSION (*Not Shown*): Install 3-inch diameter PVC pipe fitted concentrically inside the exhaust duct (Item 5) through wall of fire rated enclosure (Item 2).

7. CERTIFIED COMPANY: 3M Company

CERTIFIED PRODUCT: Penetration Firestopping Devices

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2010-04-05 E.Z. Barrier G100064108SAT-003B - EZB/FME 60-03 Design Listing (page 3 of 3)

Division 05 Metals

05 58 00 Formed Metal Fabrications

05 58 16 Formed Metal Enclosures

MODEL: 3M Fire Barrier Ultra PPD 3.0
R-9269 Plastic Pipe Device

Page 3 of 3

FIRESTOP DEVICE (*Not Shown*):
Install nominal 3-inch diameter plastic pipe device constructed with three layers of intumescent mat material totaling 1/8-inch thick. Fit firestop device concentrically over sleeve extension (Item 6). Attach device inside the fire rated enclosure (Item 2) in accordance with manufacturer's instructions.

8. CERTIFIED COMPANY: 3M Company

CERTIFIED PRODUCT: Firestopping

MODEL: 3M™ Fire Barrier™ CP
25WB+ Caulk

FILL, VOID, OR CAVITY MATERIAL (*Not Shown*): Apply a bead of fill void or cavity material around annular space at the penetration through the floor/ceiling assembly (Item 1).

Date Revised: March 31, 2010
Project No: G100064108SAT-003B

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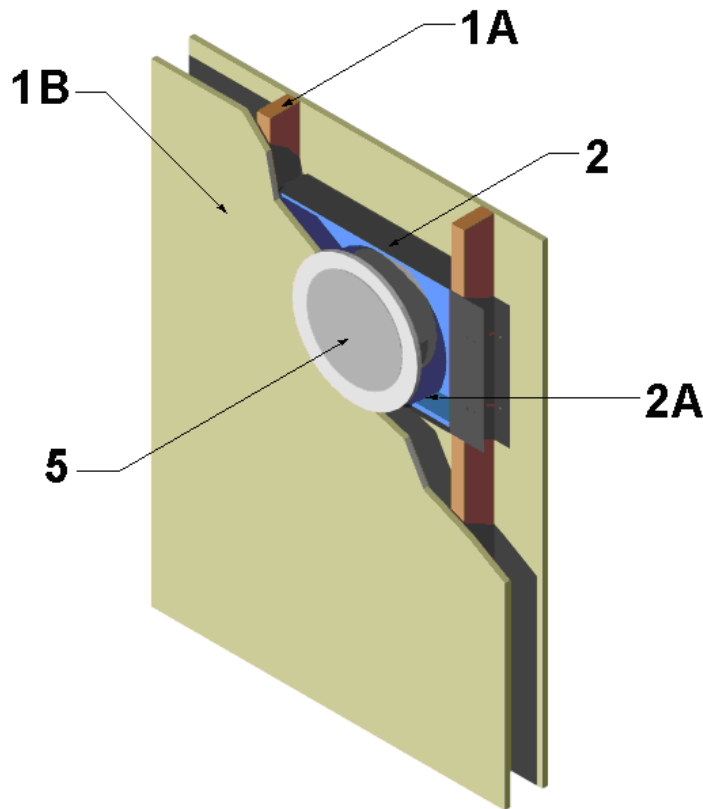
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2011-10-20 E.Z. Barrier G100511920MID-002A - EZB/FME 60-01 Design Listing

Division 05 Metals
05 58 00 Formed Metal Fabrications
05 58 16 Formed Metal Enclosures

Page 1 of 2

Design Number EZB/FME 60-01
NON-LOADBEARING WALL
E.Z. Barrier, LLC Inc.
E.Z. Barrier™ EZB 14-14-3 Fire Rated 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

Date Revised: October 20th, 2011
Project No: G100511920MID-002

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2011-10-20 E.Z. Barrier G100511920MID-002A - EZB/FME 60-01 Design Listing (page 2 of 2)

Division 05 Metals

05 58 00 Formed Metal Fabrications

05 58 16 Formed Metal Enclosures

(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: E.Z. Barrier, Inc.

CERTIFIED PRODUCT: Formed Metal Fabrications

MODEL: E.Z. Barrier™ EZB 14-14-3 Fire Rated 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.

INTUMESCENT MAT MATERIAL: Cover the interior surface area of the recessed speaker box cover system

Date Revised: October 20th, 2011
Project No: G100511920MID-002



Page 2 of 2

(Item 2) with nominal 3/16-inch thick, one layer 3M I10 intumescent mat material. Attach intumescent mat material using four pre-punched tabs on the inside of the EZB 14-14-3 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 3M I10 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 fill, void, or cavity (Item 4) and install in accordance with manufacturer's instructions.
4. FILL, VOID, OR CAVITY MATERIAL (Not Shown): Non-combustible sealant. Apply a bead of 3M CPWB25+ 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 or a standard electrical fixture and housing mounted to the inside of the enclosure with an LED display mounted on the wall covering the enclosure opening.

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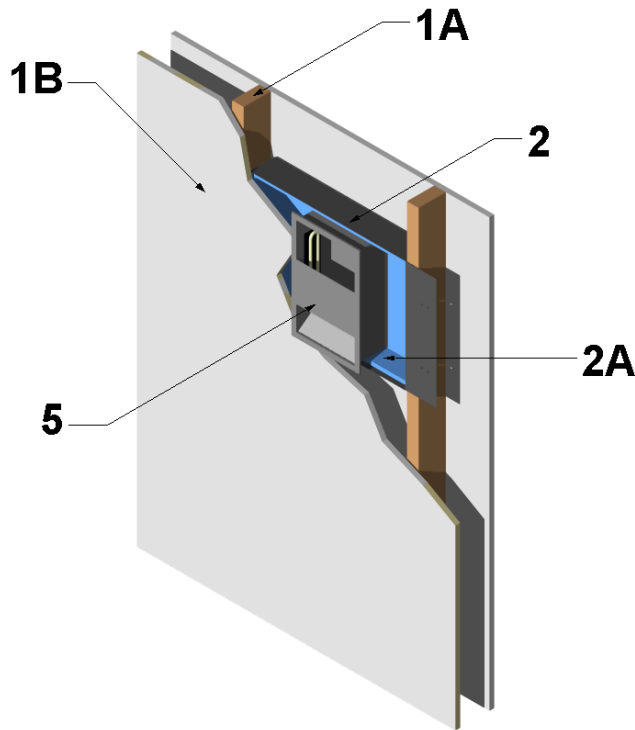
2011-10-20 E.Z. Barrier G100511920MID-002B - EZB/FME 60-04 Design Listing

Division 05 Metals
 05 58 00 Formed Metal Fabrications
 05 58 16 Formed Metal Enclosures

EZB/FME 60-01

Page 1 of 2

Design Number EZB/FME 60-04
NON-LOADBEARING WALL
 E.Z. Barrier, LLC Inc.
 E.Z. Barrier™ EZB 14-14-3 Fire Rated Enclosure
ASTM E 119
Assembly Rating – 1 Hour



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

A. Wood Studs: Install number 2 Grade Douglas Fir nominal 2-inch X 4-inch or nominal 2-inch x 6-inch wood studs spaced maximum 16 inches on center between a double wood stud top plate and single wood stud bottom plate with horizontal nominal 2-inch X 4-inch or nominal 2-inch x 6-inch wood stud cross-bracing at the midpoint of the wall height. Fasten wood studs to top and bottom plates (two nails per stud)

with Number 16d framing nails spaced maximum 16 inches on center.

B. Gypsum Board: Attach one layer of 5/8-inch thick, Type C gypsum board on each face. Locate butt joints over studs and offset butt joints on opposite sides maximum 16 inches. Attach to wood studs (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

Date Revised: October 20th, 2011
 Project No: G100511920MID-002



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2011-10-20 E.Z. Barrier G100511920MID-002B - EZB/FME 60-04 Design Listing (page 2 of 2)

Division 05 Metals

05 58 00 Formed Metal Fabrications

05 58 16 Formed Metal Enclosures

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 exposed sides of gypsum board (Item 1B) 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.-3/4 inches created from exposed face of gypsum board (Item 1B) to exposed face of gypsum board (Item 1B).

2. CERTIFIED MANUFACTURER: E.Z. Barrier, Inc.

CERTIFIED PRODUCT: Formed Metal Fabrications

MODEL: E.Z. Barrier™ EZB 14-14-3 Fire Rated Enclosure

FIRE RATED ENCLOSURE: Use E.Z. Barrier™ EZB 14-14-3 Fire Rated Enclosure, which is an open box constructed 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 edges. Position the enclosure in wall cavity with flanges over wood studs (Item 1A). Secure the flanges of the enclosure 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 fire rated enclosure system within a 100-square foot wall surface area. Minimum spacing from adjacent wall must be 8 inches.

INTUMESCENT MAT MATERIAL: Cover the interior surface area of the fire rated enclosure (Item 2) with one layer of nominal 3/16-inch thick, 3M

Date Revised: October 20th, 2011
Project No: G100511920MID-002

Intertek

EZB/FME 60-01

Page 2 of 2

I10 intumescent mat material. Attach intumescent mat material using four pre-punched tabs on the inside of the fire rated enclosure in accordance with manufacturer's instructions. If the fire rated enclosure is not equipped with pre-punched tabs, attach mat using Number 8 x 3/4-inch long K-lath screws inserted through 1-inch diameter (1/4-inch hole) galvanized steel washers. Attach a minimum of 2 screws per interior face spaced nominally 8-inches on center. All interior surfaces must be covered with 3M I10 intumescent material.

3. ELECTRICAL WIRING (Not Shown): Insert maximum four (4) 12 GA, 3 conductor, Romex wires through the pre-punched hole of the fire rated enclosure (Item 2). Seal penetration with fill, void, or cavity material (Item 4) and install in accordance with the manufacturer's installation instructions.
4. FILL, VOID, OR CAVITY MATERIAL (Not Shown): Non-combustible sealant. Apply a bead of 3M CPWB25+ Sealant around annular space at the electrical wiring (Item 3) penetration through the fire rated enclosure (Item 2).
5. LIGHT: Install Vision Quest Lighting (model number PR222-UDRS) in the fire rated enclosure (Item 2) per the manufacturers installation instructions or a standard electrical fixture and housing mounted to the inside of the enclosure with an LED display mounted on the wall covering the enclosure opening.

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