



LEW ELECTRIC FLOOR BOX COMPANY

SERVING THE ELECTRICAL INDUSTRY SINCE 1901

LEW ELECTRIC TECHNICAL SPECIFICATIONS SECTION 16143 - PVC FLOOR BOXES

PART 1 GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Round PVC Floor Boxes.
 - 2. Cover plates and flanges.
 - 3. Accessories.

- B. Related Sections:
 - 1. Section "Cast-in-Place Concrete" for casting boxes into concrete floors.
 - 2. Section "Basic Electrical Materials and Methods" for installation of floor boxes.
 - 3. Section "Raceways and Boxes" for conduit and tubing.

1.2 REFERENCES

- A. ASTM B26/B26M-02 - Standard Specification for Aluminum-Alloy Sand Castings.
- B. ASTM B 209-02a - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- C. ASTM B 221-02 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- D. ASTM B 283-99a - Standard Specification for Copper and Copper-Alloy Die Forgings (Hot-Pressed).
- E. ASTM D1784-99ae1 - Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds.
- F. NFPA 70 – National Electrical Code; 2002.
- G. UL 514C – Standard for Nonmetallic Outlet Boxes, Flush-Device Boxes and Covers; 1996.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's catalog data, product descriptions and installation instructions for each product specified.
- B. Maintenance Instructions: For floor boxes and covers for inclusion in maintenance manual.
- C. Coordination Drawings: Show locations, method of attachment and support for floor boxes.

Lew Electric Floor Box Company

1801 W. St. Charles Rd. • Maywood, IL 60153 • Ph: (708) 345-2075 • Fx: (708) 345-6490 • E: Sales@Lewelectric.com
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1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain floor boxes and covers from one source and a single manufacturer.
- B. Floor Boxes and Accessories: Listed and labeled in accordance with NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. Comply with NFPA 70.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

1.6 WARRANTY

- A. Warrant against defects in material and workmanship for a 10 years after substantial completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:
Lew Electric Fittings Co.
1801 W St Charles Rd, Maywood, IL 60153
Tel: 708-345-2075, Fax: 708-345-6490
E-Mail: sales@lewelectric.com
www.lewelectric.com
- B. Substitutions will not be allowed.
- C. Substitutions will be accepted in accordance with Section 01600.

2.2 MATERIALS

- A. Aluminum: ASTM B 26/B 26M, Alloy A356.0-T6.
- B. Brass: ASTM B 283-99a.
- C. PVC: ASTM D 1784-99ae1.

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2.3 FLOOR BOXES

- A. PVC Floor Box: UL 514C, 4 9/16 inch (114 mm) diameter, 90 cu. in. floor box, with (2) 3/4 inch (19 mm) and (2) 1 inch (25 mm) hubs, concrete cover cap, preformed partitioning slots and screw anchoring flanges.

2.4 COVER PLATES AND FLANGES

A. Single Service Covers:

- 1. Screw Plug Cover Plate: Round brass cover plates, 1/8 inch (3 mm) thick, with threaded holes to accept screw plugs.
 - a. Style: (2) 1 1/2 inch (38 mm) screw plugs for duplex receptacle.
 - b. Style: Combination screw plug; 2 inch (50 mm) and 1/2 inch (13 mm) for com./ data receptacles.
 - c. Style: Combination screw plug; 2 inch (50 mm) and 3/4 inch (19 mm) for com./ data receptacles.
 - d. Style: Combination screw plug; 2 inch (50 mm) and 1 inch (25 mm) for com./ data receptacles.
 - e. Style: Single 2 inch (50 mm) screw plug.
 - f. Size: 4 inch (100 mm) diameter.
- 2. Metal Round Flip Lid Cover Plate: Pin hinged, flanged cover plates 1/4 inch thick, fabricated for seamless attachment to floor box with screws of same material as cover plate.
 - a. Style: Single hinged.
 - b. Style: Dual hinged.
 - c. Size: 5 3/4 inch (144 mm) diameter.
 - d. Size: 5 1/4 inch (131 mm) diameter.
 - e. Material: Brass.
 - f. Material: Aluminum.
- 3. Plastic Round Flip Lid Cover Plate: Pin hinged, 5 3/4 inch (144 mm) diameter flanged cover plates, fabricated for seamless attachment to floor box with screws.
 - a. Color: Brown.
 - b. Color: Ebony.
 - c. Color: Gold.
 - d. Color: Gray.
 - e. Color: Tan.
 - f. Color: White.

B. Multi-Service Covers:

- 1. Screw Plug Cover Plate: 5 3/4" (144 mm) diameter round cover plates, 1/8 inch (3 mm) thick, with threaded holes to accept screw plugs.

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- a. Style: (2) 1 1/2 inch (38 mm) screw plugs and (2) 1/2 inch (13 mm) plugs.
 - b. Style: Combination screw plug; 2 inch (50 mm) and 1/2 inch (13 mm) and (2) 1/2 inch (13 mm) plugs.
 - c. Style: Combination screw plug; 2 inch (50 mm) and 3/4 inch (19 mm) and (2) 1/2 inch (13 mm) plugs.
 - d. Style: Combination screw plug; 2 inch (50 mm) and 1 inch (25 mm) and (2) 1/2 inch (13 mm) plugs.
2. Plastic Round Flip Lid Cover Plate: Pin hinged, 5 3/4 inch (144 mm) diameter flanged cover plates with (2) 1/2 inch (13 mm) screw plugs, fabricated for seamless attachment to floor box with screws.
 - a. Color: Brown.
 - b. Color: Ebony.
 - c. Color: Gold.
 - d. Color: Gray.
 - e. Color: Tan.
 - f. Color: White.

2.5 ACCESSORIES

- A. Floor Box Accessories:
 1. Slide-in PVC partition.
 2. Leveling ring adapter for round flanged cover plates.
 3. PVC looping connector.
 4. Universal adapter ring for metallic and non-metallic covers.
- B. Cover Plate Accessories:
 1. Mounting Plates:
 - a. Duplex Mounting Plate.
 - b. GFI/Decora Mounting Plate.
 - c. Single Receptacle/Data Mounting Plate.

2.6 FINISHES – COVERS, FLIP LIDS AND SCREW PLUGS

- A. Brass: Hand-Rubbed Finish: M31-M34 (Mechanical Finish: directionally textured, fine satin; Mechanical Finish: directionally textured, hand rubbed).
- B. Aluminum Plate and Sheet: ASTM B 209, Alloy 6061-T6.
- C. Aluminum Extrusions: ASTM B 221, Alloy 6063-T6.
- D. Aluminum Castings: ASTM B 26/B 26M, Alloy 443.0-F.

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PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify substrates are ready to receive floor boxes prior to installation. Report any inconsistencies or discrepancies to the Architect.
- B. Install floor boxes only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install supports to permanently and solidly attach floor boxes.
- B. Install floor boxes flush with finish flooring.
- C. Install temporary covers during construction to prevent the accumulation of foreign material in boxes. Leave temporary covers in-place until installation of finished cover plates.
- D. Install specified cover plates for each product in accordance with the manufacturer's written instruction.

3.3 CLEANING AND PROTECTION

- A. Repair or replace damaged products prior to substantial completion.
- B. Clean exposed surfaces in accordance with manufacturer's written instructions prior to substantial completion.
- C. Protect installed products until project completion.

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