

## SECTION 16141

## FLOOR BOXES FOR ELECTRICAL SYSTEMS

## PART 1 - GENERAL

## 1.1 CONDITIONS AND REQUIREMENTS

- A. The General Conditions, Supplementary Conditions, and Division 1 – General Requirements apply.

## 1.2 SECTION INCLUDES

- A. Resource CAF floor boxes.

## 1.3 RELATED SECTIONS

*Specifier Note: In this article, specify work specified in other sections that is related to work of this section.*

- A. Section 07841 - Through-Penetration Firestop Systems.
- B. Section 13700 - Security Access and Surveillance: Security systems and components.
- C. Division 16 - Electrical: Electrical systems and components.
- D. Section 16700 - Communications: Communications and audio-video systems and components.

*Specifier Note: The following paragraph is a sample that may be used in this article. Add to or delete from the following as appropriate for the specific project.*

- E. Section [xxxxx] – [Section Title]: [Include brief description of work specified in another section that is related to the work of this section.]

## 1.4 SUBMITTALS

*Specifier Note: In this article, specify various types of data to be furnished by the contractor before, during, or after construction. Topics included in this article are: product data, shop drawings, samples, design data, test reports, certificates, manufacturers' instructions, manufacturers' field reports, qualification statements, and closeout submittals.*

- A. Submit under provisions of Section [01330] [\_\_\_\_\_].
- B. Product Data: Submit for floor boxes.

*Specifier Note: Delete the following article if not required for a project.*

- C. Shop Drawings: For the following electrical system components. Include plans, elevations, sections, details, and attachments to other work.

## Wiremold® Resource CAF Floor Box Series

1. Floor boxes.

## 1.5 QUALITY ASSURANCE

*Specifier Note: In this article, describe qualifications, regulatory requirements, certifications, field samples, mock-ups, and pre-installation meetings.*

- A. Manufacturer Qualifications: Firms regularly engaged in manufacture of floor boxes of the types and sizes required, whose products have been in satisfactory use in similar service for not less than 10 years. Provide floor boxes produced by a manufacturer listed in this section.
- B. Electrical Raceways and Components: Comply with requirements of applicable local codes, NEC, UL, and NEMA Standards pertaining to raceways and components. Listed and labeled in accordance with NFPA 70, Article 100.

## 1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver floor boxes and fittings in factory labeled packages.
- B. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
- C. Protect from damage due to weather, excessive temperature, and construction operations.

## PART 2 - PRODUCTS

## 2.1 ACCEPTABLE MANUFACTURER

- A. Basis-of-Design Product: The design for floor boxes and fittings is based on the Resource CAF Floor Box Series manufactured by legrand/Wiremold, 60 Woodlawn Street, West Hartford, CT 06110; toll-free 800-621-0049, telephone 860-233-6251, fax 860-232-2062; Web Site: [www.legrand.us/wiremold](http://www.legrand.us/wiremold).
- B. Substitutions will be considered under provisions of Section 01635.

*Specifier Note: In the following article, retain only those products that are to be incorporated into the project and delete the others.*

## 2.2 FLOOR BOXES

- A. CAF3 Series Floor Boxes: Manufactured from stamped steel and approved for use on above grade floors. The box shall be 5-7/8" L x 7-1/8" W x 3" H [333mm x 165mm x 87mm]. Provide the box with three (3) independent wiring compartments that allow capacity for up to two (2) duplex receptacles, communication and audio/video services. The box shall permit tunneling from end power compartment to end power compartment. Provide each of the three (3) compartments with a minimum wiring capacity of 50 cu in [822 ml<sup>3</sup>]. Three (3) compartments shall have a minimum of three (3) inches of space behind the device plates. The box shall include the following number of conduit knockouts: two (2) 1/2-inch [12.7mm] and two (2) 3/4-inch [19.1mm]. The box shall be fully adjustable, providing a maximum of 1-3/8-inch [35mm] pre-pour adjustment, and a maximum of 3/4-inch [19.1mm] after-pour adjustment. The box

**Wiremold® Resource CAF Floor Box Series**

shall include a series of device mounting plates that will accept both duplex power devices as well as plates that will accommodate Ortronics workstation connectivity outlets and modular adapters, Legrand AVIP audio/video device plates, and other open system devices.

**2.3 ACTIVATION COVERS**

- A. FloorPort FPCTC and FPBTC Series Covers: Manufactured of die-cast aluminum or die-cast zinc, and available in brushed aluminum finish and powder-coated paint finishes (black, gray, bronze, nickel and brass). Activation covers shall be available in flanged versions. The cover's hinge shall allow for the cover to open 180 degrees. The covers shall have been evaluated by UL to meet the applicable U.S. and Canadian safety standards for scrub water exclusion when used on tile, terrazzo, wood, and carpet covered floors.

**2.4 COMMUNICATION MODULES MOUNTING ACCESSORIES**

- A. The floor box manufacturer shall provide a complete line of faceplates and bezels to facilitate mounting of UTP, STP (150 ohm), fiber optic, coaxial, and communication devices. The box shall provide a series of device mounting plates that will accommodate Ortronics workstation connectivity outlets and modular adapters, and other open system devices.

**PART 3 - EXECUTION****3.1 EXAMINATION**

*Specifier Note: Delete either of the options in the paragraph below to suit project requirements.*

- A. Examine conditions under which boxes and fittings are to be installed and substrate that will support boxes. Notify the [Architect/Engineer] [Construction Manager] in writing of conditions detrimental to proper completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected.

**3.2 INSTALLATION**

- A. Strictly comply with manufacturer's installation instructions and recommendations and approved shop drawings. Coordinate installation with adjacent work to ensure proper clearances and to prevent electrical hazards.
- B. Mechanical Security: Raceway systems shall be mechanically continuous and connected to all electrical outlets, boxes, device mounting brackets, and cabinets, in accordance with manufacturer's installation sheets.
- C. Accessories: Provide accessories as required for a complete installation, including insulated bushings and inserts where required by manufacturer.
- D. Unused Openings: Close unused box openings using manufacturer's recommended accessories.

**3.3 CLEANING AND PROTECTION**

**Wiremold® Resource CAF Floor Box Series**

- A. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer.
- B. Protect boxes and fittings until acceptance.

END OF SECTION

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