

SECTION 16141

FLOOR BOXES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes floor boxes; floor box service fittings; poke-through fittings and access floor boxes.

B. RELATED WORK:

1. Section 16130 – Raceway and Boxes

2. Section 16140 – Wiring Devices: Receptacles for installation in floor boxes

1.2 REFERENCES

A. NECA (National Electrical Contractor’s Association) – Standard of Installation

B. NEMA OS 1 (National Electrical Manufacturers Association) – Sheet steel Outlet Boxes, Device Boxes, Covers, and Box Supports.

1.3 SUBMITTALS

A. Product Data: Submit catalog data for floor boxes service fittings.

B. Samples: Submit two of each service fitting illustrating size, material, configuration, and finish.

1.4 CLOSEOUT SUBMITTALS

A. Project Record Documents: Record actual locations of each floor box and poke-through fittings.

1.5 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years (documented) experience.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Materials: Materials shall be new and shall be delivered to the job site in the original packaging.

PART 2 - PRODUCTS

2.1 FLOOR BOXES

- A. Floor Boxes: NEMA OS 1, 1-1/2 inches deep
- B. Adjustability: Fully adjustable.

2.2 PEDESTAL-TYPE CONVENIENCE OUTLET SERVICE FITTING.

- A. Housing: Satin aluminum
- B. Device Plate: Stainless steel
- C. Configuration: One duplex, two duplex, back-to-back.

2.3 FLUSH-COVER-TYPE CONVENIENCE RECEPTACLE SERVICE FITTING

- A. Manufacturers: As specified by project

2.4 PEDESTAL-TYPE COMMUNICATION OUTLET

- A. Manufacturers: As specified by project
- B. Housing: Satin aluminum
- C. Device Plate: Stainless Steel
- D. Configuration: As specified by project.

2.5 FLUSH-COVER-TYPE COMMUNICATION OUTLET

- A. Manufacturers: As specified by project

2.6 PEDESTAL-TYPE COMINATION FITTING

- A. Manufacturers: As specified by project
- B. Housing: Stainless Steel
- C. Device Plate: Stainless Steel
- D. Configuration: One duplex convenience receptacle with one bushed opening 1-inch inside diameter.

2.7 FLUSH-COVER-TYPE COMMUNICATION FITTING

A. Manufacturers: As specified by project

2.8 FLUSH-COVER-SERVICE FITTING ACCESSORIES

A. Manufacturers: As specified by project

B. Protective Ring: Brass or Aluminum finish

C. Split Nozzle: Brass or Aluminum

D. Carpet Ring: Brass

2.9 POKE-THROUGH FITTINGS

A. Manufacturers: As specified by project

B. Product Description: Assembly comprising service fitting, poke-through component, fire stops and smoke barriers, and junction box for conduit.

C. Fire Rating: To match or exceed floor assembly.

D. Service Fitting Type: As specified by project

E. Housing: As specified by project

F. Device Plate: As specified by project

G. Configuration: As specified by project

2.10 ACCESS FLOOR BOX

A. Manufacturers: As specified by project

B. Product Description: Sheet metal box suitable for mounting in access floor system.

C. Size: To be determined.

D. Cover: As specified by project

E. Convenience Receptacle: As specified by project

F. Communications Receptacle: As specified by project

G. Data Receptacle: As specified by project

### PART 3 – EXECUTION

#### 3.1 EXAMINATION

A. Verify locations of floor boxes and outlets prior to rough-in

B. Verify that openings in access floor are in proper locations.

#### 3.2 INSTALLATION

A. Install in accordance with NECA “Standard of Installation”

B. Boxes and fittings are shown on Drawings in approximate locations unless dimensioned. Adjust box location up to 3 feet if required to accommodate intended purpose.

C. Floor Box Requirements: Use cast floor boxes for installations in slab on grade; formed steel boxes are acceptable for other installations.

D. Set floor boxes level

E. Install boxes and fittings to preserve fire resistance rating of slabs and other elements, using materials and methods specified in Section 07840.

F. Coordinate installation of access floor boxes with access floor system provided under Section or existing access floor system.

#### 3.3 ADJUSTING

A. Adjust floor box flush with finish flooring material.

#### 3.4 CLEANING

A. Clean interior of boxes to remove dust, debris, and other material.

END OF SECTION