

SECTION 26 05 32**CABINETS, BOXES AND FITTINGS****PART 1 - DESIGN DIRECTIVES****1.1 DESIGN CRITERIA**

- A. Device and junction boxes shall be sized in strict conformance to the NEC articles that pertain to conductor fill.
- B. Junction and pull boxes shall be located and installed in a manner that will render the box and wiring accessible upon project completion.
- C. All junction boxes shall be installed at a height that will render them accessible from a standard stepladder that can be raised and opened in the space under the ceiling without the removal of ceiling tiles.
 - 1. Accessible shall be defined as being visible and able to be reached, tested, rewired, and worked on from a stepladder erected under it without necessitating removal of any building or MEP equipment or parts.
 - 2. Workers shall not be expected to climb into the space above a ceiling and crawl or lay on ductwork or mechanical equipment to reach junction or pull boxes.
- D. The engineer shall be a partner with the electrical contractor in coordinating the location for junction and pull boxes in raceway systems where the conflict was not anticipated in the design phase of the project. At design development, and throughout the design process before bidding, the engineer shall identify to the architect all special requirements needed to accommodate the accessibility and space criteria detailed in this document.
- E. Junction boxes containing access control, surveillance, and intrusion detection systems (collectively referred to as security systems) shall have covers attached with security screws as specified in DC Guidelines for Security Management Systems, section 28 10 10.
- F. Junction boxes for Fire Alarm shall be painted red.

PART 2 - PRODUCTS**2.1 MATERIALS**

- A. No designated manufacturers
- B. Floor boxes – with data and power, poke-thru type, poured slab type. Covers shall be slide for access type.
- C. Floor boxes – power only, poke-thru type, poured slab type. Covers shall be slide for access type.

- D. Floor boxes – data only, poke-thru type, poured slab type. Covers shall be slide for access type.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. All interior outlet boxes shall be made from steel and supported rigidly to the building structure. Raised covers shall be combination square-drawn type manufactured specifically for sheetrock and tile applications.
- B. Exterior junction boxes when surface mounted shall be constructed from Stainless Steel.
- C. Outlet boxes shall be securely fastened and set into the framing so that the face of the box is not more than 1/4 inch behind the finished surface of the wall or ceiling into which it is installed. The space between the edges of the box and the finished surface of the wall or ceiling shall not exceed 1/8 inch. The owner will closely monitor this issue.
- D. Junction and pull boxes shall have the covers facing in the direction that maximizes accessibility. When a cover is removed, a worker shall not have to reach over or through other conduits and equipment to reach the conductors enclosed in the box.

END OF SECTION