

SECTION 27 05 39

SURFACE RACEWAYS AND BOXES FOR COMMUNICATIONS SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section shall govern the products and installation of all necessary parts, pieces and accessories of a surface raceway system for communications cabling (data network, voice, video, fiber optic, and other low-voltage cables).

1.2 RELATED DOCUMENTS

- A. The latest versions of the following codes, standards, and guidelines shall be followed. Bring to ITS' immediate attention where construction documents or conditions differ from requirements in codes, standards, guidelines and specifications.
- B. The following codes, as required by law:
 - 1. National Electric Code (NEC)
- C. The following standards:
 - 1. TIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces
- D. The following guidelines:
 - 1. BICSI, Telecommunications Distribution Methods Manual (TDMM)
 - 2. BICSI, Information Transport Systems Installation Methods Manual (ITSIMM)

1.3 SUBMITTALS

- A. The following submittals are due at the Pre-Construction Phase, in accordance with submittal requirements in Section 27 00 00 Communications:
 - 1. Product Information
 - a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.
- B. The following submittals are due Post-Construction, in accordance with the submittal requirements in Section 27 00 00 Communications:
 - 1. Manufacturer and Maintenance Manuals for all installed equipment.
 - a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.
 - b) List of bill of materials, including all parts, pieces and connectors required for installation of the surface raceway.
 - 2. Deliver to owner any special tools produced by the manufacturer required to install or uninstall the surface raceway and/or raceway cover.

PART 2 – PRODUCTS

2.1 METALLIC RACEWAY

- A. Size according to Execution section.
- B. Manufacturer shall be:

1. Panduit
2. Wiremold
3. Or approved equivalent

2.2 NON-METALLIC RACEWAY

- A. Size according to Execution section.
- B. Manufacturer shall be:
 1. Panduit
 2. Wiremold
 3. Or approved equivalent

2.3 SURFACE OUTLET BOXES

- A. Single-gang
 1. Minimum of 2-3/4" deep
 2. Manufacturer shall be:
 - a) Panduit
 - b) Wiremold
 - c) Or approved equivalent
- B. Double-gang
 1. Minimum of 2-3/4" deep
 2. Manufacturer shall be:
 - a) Panduit
 - b) Wiremold
 - c) Or approved equivalent

PART 3 - EXECUTION

3.1 GENERAL

- A. Follow all manufacturers' instructions.
- B. Coordinate with all other trades prior to installation.
- C. Delivery, Storage, and Handling
 1. Store products in manufacturer's unopened packaging until ready for installation.
 2. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
 3. Protect from damage due to weather, excessive temperature, and construction operations.
- D. Verify routing locations of raceway prior to installation.
- E. Surface raceways shall be sized to accommodate 1 square in of space per work area.

- F. Do not begin installation until substrates have been properly prepared. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- G. Clean surfaces thoroughly prior to installation.
- H. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- I. Install all components necessary to make a complete, code-compliant installation.
- J. Sections of surface raceway less than 7' in length shall be a single piece of raceway.

3.2 ELEVATOR PHONE AND DATA CONNECTIONS

- A. Inside CCTV Enclosure, install (1) surface-mounted, double-gang box (Ortronics OR-40300186 or Panduit JBP2D).

END OF SECTION