SECTION 27 05 39
SURFACE RACEWAYS FOR COMMUNICATIONS SYSTEMS

PART 1 – GENERAL

1.01 DESCRIPTION

A. The work covered by this section of the Specifications includes all labor necessary to perform and complete such construction, all materials and equipment incorporated or to be incorporated in such construction and all services, facilities, tools and equipment necessary or used to perform and complete such construction. The work of this section shall include, but is not limited to, the following:

1. Surface Raceways and accessories

B. Surface Raceways are only to be used in facility remodels, not to be used for new construction without specific permission.

1.02 QUALITY ASSURANCE

A. Refer to Section 27 00 00 for general details.

1.03 CODES, STANDARDS, AND GUIDELINES

A. Except as modified by governing codes and by the Contract Documents, comply with the applicable provisions and recommendations in Section 27 00 00.

B. UL 5 - Surface Metal Raceways and Fittings.

C. UL 514A - Metallic Outlet Boxes.

D. UL 514C - Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers.

1.04 SUBMITTALS

A. Refer to Section 27 00 00 for general details.

B. Shop Drawings:

1. Coordinated conduit layout drawings, 1/8 inch scale, minimum. Show routing of all surface raceways.

C. Submit Manufacturer’s Cut Sheets for the following:

1. Any products not specifically listed in the PRODUCTS section shall require a submittal of the manufacturer’s cut sheets.

1.05 IDENTIFICATION
A. None Required

1.06 DEFINITIONS
A. N/A

1.07 WARRANTY
A. Refer to Section 27 00 00 for general details.
PART 2 – PRODUCTS

2.01 PRODUCT CONSISTENCY

A. Product Consistency: Any given item of equipment or material shall be the product of one manufacturer throughout the facility. Multiple manufacturers of any one item will not be permitted.

2.02 STEEL RACEWAY

A. Size according to Execution section.

B. Manufacturer/Product: Legrand/Wiremold 700 Series

C. Manufacturer/Product: Legrand/Wiremold 2400 Series

D. Manufacturer/Product: Legrand/Wiremold 4000 Series

E. Manufacturer/Product: Legrand/Wiremold 6000 Series
PART 3 – EXECUTION

3.01 GENERAL

A. All surface raceways are to be constructed from metal.
B. All transitions in either the horizontal or vertical plane are to be fiber rated radiused fittings.
C. Transitions must have the same carrying capacity as the elements they connect.
D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
E. Install all components necessary to make a complete, code-compliant installation.
F. All components used are to be employed in the manner intended by the manufacturer.
G. Sections of surface raceway less than 7' in length shall be a single piece of raceway.
H. Raceway Sizing (For undivided raceways):

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<th># of Cat6A Cables</th>
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3.02 QUANTITIES

A. Quantities of raceway elements shown on the drawings are illustrative only and are meant to indicate the general configuration of the work. The Contractor is responsible for providing the correct quantities of materials to construct a system that meets the intent of these Specifications and the relevant codes.

3.03 INSTALLATION

A. Follow all manufacturers’ written instructions.

3.04 GROUNDING & BONDING

A. All metal surface raceways are to be grounded.
B. Refer to Section 27 05 26 for additional details.

3.05 TESTING

A. None Required

3.06 ACCEPTANCE
A. Once the installation and testing has been completed and the campus telecommunications representative is satisfied that all work is in accordance with the Contract Documents, the representative will notify the Contractor and/or campus project manager in writing or via email.

3.07 RECORD (ASBUILT) DRAWINGS

A. None Required

END OF SECTION
DOCUMENT VERSION CONTROL

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