

SECTION 16133

SURFACE METALLIC RACEWAYS

PART GENERAL

SECTION INCLUDES

Surface Metallic Raceways.

Fittings.

Device Brackets and Plates.

Cover Brackets and Face Plates.

Communications Devices and Accessories.

Electrical Devices.

RELATED SECTIONS

Sections of Division 16 affected by, or affecting, construction activities of this section.

REFERENCES

NFPA 70 - National Electrical Code.

UL 5 - Surface Metal Raceways and Fittings.

UL 94 - Test for Flammability of Plastic Materials for Parts in Devices and Appliances.

SYSTEM DESCRIPTION

Performance Requirements:

Surface metallic raceway for dry interior locations, conforming to National Electrical Code, Article 352, Part B.

System components listed by Underwriter's Laboratories, Inc.:

Metal components: Conforming to specifications of UL 5.

Plastic components: Exhibiting non-flammable, self-extinguishing characteristics when tested in accordance with UL 94, V-0.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's descriptive literature for each system component specified in this section.

Shop Drawings: Indicate raceway layouts, each system component required for complete system, raceway lengths, device types, locations; identify all circuits.

Quality Assurance Submittals:

Test Reports: Certified reports from independent testing laboratory supporting compliance of raceway system to specified requirements.

Manufacturer's instructions: Printed installation instructions for each system component; include storage requirements.

Closeout Submittals: If variations from approved shop drawings occur during installation of raceway system, submit final as-built drawings indicating such variations.

DELIVERY, STORAGE, AND HANDLING

Store products of this section in manufacturer's unopened packaging until installation.

Maintain storage area conditions for products of this section in accordance with manufacturer's instructions until installation.

PART PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: The Wiremold Company;
60 Woodlawn Street, West Hartford CT 06133-2500; ASD.
Tel: (800) 621-0049, Fax: (203) 232-2062.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Substitutions: Not permitted.

COMPONENTS

Surface Metallic Raceways:

Acceptable product: Wiremold 4000 System.

Product description: Two-piece system of galvanized steel, nominal 0.050 inch (1.27 mm) metal thickness, having total assembled cross-section dimension 4.75 inches (120 mm) high by 1.75 inches (44 mm) deep, having cross-section area 7.14 square inches (4606 sq mm), consisting of the following:

Base.

Snap-on cover.

Removable longitudinal barrier, dividing raceway interior into two equal spaces.

Finish: Gray polyester topcoat over gray primer, capable of being field-painted.

Finish: Ivory polyester topcoat over ivory primer, capable of being field-painted.

Fittings:

Factory-formed units to complete indicated configuration of raceway systems, including, but not limited to, the following:

External corner units.

Internal corner units.

Flat units.

Blank end units.

Elbows.

Couplings: One per raceway joint location.

Wire clips: One for every 2 linear feet (609 mm) of indicated raceway configuration.

Replacement longitudinal barrier: One section for every 5 linear feet (1524 mm) of indicated raceway configuration.

Material: Same material and metal thickness as linear raceway components (0.40 inch [10 mm] galvanized steel).

Finish: Matching linear raceway components.

Device Brackets and Plates:

Factory-formed brackets and plates allowing installation of indicated power, data, and communications devices, both single-gang and two-gang, either vertically or horizontally in raceways.

Finish: Color matching linear raceway components.

Cover Brackets and Face Plates:

Plastic device mounting brackets and trim plates allowing installation of indicated power, data, and

communications devices horizontally in raceways; trim cover sized to overlap device cut-out in raceway, concealing seams.

Finish: Color matching linear raceway components.

Communications Devices and Accessories:

Communications devices: Factory-fabricated connectivity outlets, modular inserts, and other devices for indicated configurations and service requirements, including, but not limited to, the following systems:

UTP, including Category 5.

STP; 150-ohm.

Fiber Optics.

Coaxial.

Mounting face plates and bezels.

Identification accessories, including the following:

Pre-printed station and port identification labels.

Snap-in icon buttons.

Write-on station identification labels.

Electrical Devices:

Factory-installed devices for indicated configurations and service requirements.

Finish of sight-exposed components: Color matching linear raceway components.

Electrical devices, and wiring for electrical devices, are specified in sections of Division 16.

Fasteners: Types specified in manufacturer's installation instructions for project conditions.

PART EXECUTION

EXAMINATION

Verification of Conditions: Substrates are prepared to receive products specified in this section.

INSTALLATION

Install components of raceway system in accordance with shop drawings and manufacturer's installation instructions.

Installation of electrical devices, and wiring of electrical devices, is specified in a Division 16 section.

Installation of wiring for communications devices is specified in a Division 16 section.

END OF SECTION