

SECTION 16132

SURFACE NONMETALLIC RACEWAYS

PART GENERAL

SECTION INCLUDES

Surface Non-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

National Electrical Code.

UL 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances; Underwriter's Laboratories, Inc.

SYSTEM DESCRIPTION

Performance Requirements:

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

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

Supply all products specified in this section from a single manufacturer.

#### COMPONENTS

Surface Non-Metallic Raceway:

Acceptable Product: Wiremold Access 5000 System.

Product Description: Three-piece system of rigid polyvinyl chloride (PVC) extrusions, 8 feet (2438 mm) in length with nominal 0.09 inch (2.38 mm) wall thickness, total 5.78 inches (146.8 mm) high by 0.96 inches (24.4 mm) deep, consisting of the following:

Base: Smooth finish, neutral color extruded channel, with integral continuous barrier separating channel interior into two wiring channels, and with continuous integral ribs in top channel to receive mounting device brackets.

Cover: Extruded flat profile, with continuous integral flanges at each edge for snap on fit to open face of base; sight-exposed surface of cover finished to match trim cover.

Trim cover: Extruded cove profile, with continuous integral flanges at each edge for snap on fit to top of base; sight-exposed surface of trim cover finished and coordinated with cover.

Corner Units:

Supply factory-formed cover and trim cover units for internal and external corners of indicated raceway layouts:

External corner units: Minimum 2-1/2 inch (63.5 mm) leg length.

Internal corner units: Minimum 1-5/8 inch (31.7 mm) leg length.

Finish corner units to compliment linear cover and trim cover units.

Fittings:

Supply factory-formed fittings specified in manufacturer's product data for indicated configurations and service requirements, and as follows:

Base coupling and cover clip for each vertical joint between cover unit sections, including corner units.

Base coupling and internal wire guard for each vertical joint between cover unit sections, including corner units.

One wire clip of each size for every 2 linear feet (609 mm) of indicated base configuration.

Finish: White.

Finish: Brown.

Surface Non-Metallic Raceway:

Acceptable Product: Wiremold 5400 System.

Product Description: Two-piece system of rigid polyvinyl chloride (PVC) extrusions, 8 feet (2438 mm) in length with nominal 0.10 inch (2.5 mm) wall thickness, total 5-1/2 inches (139.7 mm) high by 1-3/4 inches (44.4 mm) deep, consisting of the following:

Base: Smooth finish, ivory or white color extruded channel, with integral continuous barrier separating channel interior into two wiring channels of equal width.

Base: Smooth finish, ivory or white color extruded channel, with integral continuous barriers separating channel interior into three wiring channels of 1/2, 1/4, and 1/4 of full channel width, removable for conversion to dual wiring channel of 1/2 and 1/2 width.

Cover: Smooth finish, ivory or white color extruded flat profile, with continuous integral flanges at each edge for snap on fit to open face of base.

Fittings: Supply factory-formed fittings specified in manufacturer's product data for indicated configurations and service requirements, and as follows:

Cover clip for each vertical joint between cover unit sections.

One wire clip for every 2 linear feet (609 mm) of indicated base configuration.

One section of replacement divider fitting for every 8 linear feet of indicated base configuration.

Communications Fittings: Wiremold Activate™ Connectivity Series modular device plates; smooth finish.

Surface Non-Metallic Raceway:

Acceptable Product: Wiremold 5500 System.

Product Description: Two-piece system of rigid polyvinyl chloride (PVC) extrusions, 8 feet (2438 mm) in length with nominal 0.10 inch (2.5 mm) wall thickness, total 6-11/16 inches (139.7 mm) high by 1-3/4 inches (44.4 mm) deep, consisting of the following:

Non-Divided Base: Smooth finish, ivory or white color extruded channel, with two integral continuous projections, equally spaced within

channel width, to receive replacement divider fitting..

Divided Base: Smooth finish, ivory or white color extruded channel, with integral continuous barriers separating channel interior into three wiring channels, each 1/3 of full channel width, removable for conversion to dual or single wiring channel.

Cover: Smooth finish, ivory or white color extruded flat profile, with continuous integral flanges at each edge for snap on fit to open face of base.

Fittings: Supply factory-formed fittings specified in manufacturer's product data for indicated configurations and service requirements, and as follows:

Cover clip for each vertical joint between cover unit sections.

One wire clip for every 2 linear feet (609 mm) of indicated base configuration.

Two sections of replacement divider fitting for every 8 linear feet (2438 mm) of indicated base configuration.

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.  
Color: \_\_\_\_\_.

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.  
Color: \_\_\_\_\_.

Communications Devices and Accessories:

Communications devices: Wiremold Activate™ Connectivity Series factory-fabricated modular 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: Color \_\_\_\_\_.  
Identification accessories, including the following:  
Pre-printed station and port identification  
labels.  
Snap-in icon buttons.  
Write-on station identification labels.

Electrical Devices:  
Factory-fabricated devices for indicated  
configurations and service requirements.  
Finish of sight-exposed components: Color \_\_\_\_\_.

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