

**SECTION 16112**  
**SURFACE RACEWAYS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section describes specific requirements, products, and methods of execution relating to surface metal raceway systems at ANC, including but not limited to base, cover, device fittings, entrance fittings, corners, elbows, supports, brackets, vertical and/or horizontal offsets, grounding, devices, and hardware.

**1.2 SECTION INCLUDES**

- A. Surface metal raceways.
- B. Multi-outlet assemblies.
- C. Wireways.

**1.3 REFERENCES**

- A. NECA (National Electrical Contractor's Association) Standard of Installation.
- B. NEMA WD 6 - Wiring Device Configurations.

**1.4 QUALITY ASSURANCE**

- A. Surface raceways shall be of the latest approved design as manufactured by a nationally recognized manufacturer and shall be listed by the Underwriters' Laboratory and bear the UL label.
- B. Perform Work in accordance with NECA Standard of Installation.

**1.5 REGULATORY REQUIREMENTS**

- A. Conform to requirements of ANSI/NFPA 70.
- B. Furnish products listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified and shown.

**PART 2 - PRODUCTS**

**2.1 SURFACE METAL RACEWAY**

- A. Surface metal raceway for individual circuit runs shall be one piece surface metal raceway of the appropriate dimensions for the conductors, Wiremold Series 500/700, or as approved.
- B. Finish: Raceways shall be factory pre-painted.
- C. Provide suitable backing for mounting attachment; hollow wall anchors shall not be used.
- D. Provide manufacturer's standard Fittings, Boxes, and Extension Rings:
  - 1. Wall box connectors shall be concealed entry type.

## **2.2 USES PERMITTED**

- A. Surface metal raceway shall only be used where specifically approved by ANC. Surface metal raceway installed without ANC's express written approval shall be removed at the Tenant's expense. Concealed conduit shall be used in all other locations, e.g., behind sheet rock walls, above sheet rock ceilings, above linear metal ceilings. Exposed conduit shall only be used for devices mounted on steel structure or concrete in non-public areas such as bag makeup areas, etc.

## **2.3 WIREWAY**

- A. Surface wireway in exposed or concealed locations shall be sheet metal channel suitable for use as a wiring trough, with hinged or screw cover, sized in accordance with the NFPA 70. Wireway shall be Square D Class 5100, 5120, 5140, as appropriate for the environment, or as approved by ANC.
- B. Wireway shall be of the NEMA Type (general purpose, oil-tight, dust-tight, rain-tight, etc.) appropriate for the environment where installed.
- C. Wireway shall be furnished without factory pre-punched concentric or eccentric conduit knockouts. Knockouts shall be field punched as required for the conduits installed.
- D. Finish shall be ANSI-49 gray epoxy paint finish applied by cathodic electrodeposition over a corrosion resistant phosphate preparation.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Install Products in accordance with manufacturer's instructions.
- B. Use flathead screws, clips, and straps to fasten raceway channel to surfaces. Mount plumb and level.
- C. Provide field paint touch-up with factory furnished paint to match factory pre-painted finish, for all chips, scraps, scratches, fittings and unpainted sections of the surface raceways and multi-outlet assemblies, after installation of all devices and covers are complete.
- D. Use suitable insulating bushings and inserts at connections to outlets and corner fittings.
- E. Close ends of wireway and unused conduit openings.
- F. Ground and bond raceways and wireways under provisions of Section 16450.

**END OF SECTION**