

SECTION 26 05 36
CABLE TRAYS FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Cable trays and accessories.
- B. Firestopping within (not around) cable trays.

1.02 RELATED REQUIREMENTS

- A. Section 07 84 00 - Firestopping: Firestopping around cable trays.
- B. Section 26 05 26 - Grounding and Bonding for Electrical Systems.
- C. Section 26 05 29 - Hangers and Supports for Electrical Systems.

1.03 REFERENCES

- A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2012.
- B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2011.
- C. NEMA VE 1 - Metallic Cable Tray Systems; National Electrical Manufacturers Association; 2009.
- D. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week prior to commencing work of this section.
- B. Coordination Meeting to include all disciplines including mechanical and HVAC related work.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for fittings and accessories.
- C. Shop Drawings: Indicate tray type, dimensions, support points, and finishes.
- D. Project Record Documents: Record actual routing of cable tray and locations of supports.

1.06 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.
- C. Products: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Schneider Electric; Square D Products: www.schneider-electric.us.
- B. Thomas & Betts Corporation: www.tnb.com.
- C. Wiremold Company: www.wiremold.com.

2.02 CABLE TRAY

- A. Description: NEMA VE 1, Class 20C ladder type tray.
- B. Material: Formed sheet steel, hot-dip galvanized after fabrication in accordance with ASTM A123/A123M, painted with gray epoxy.
- C. Inside Width: As indicated.
- D. Inside Depth: As indicated.
- E. Straight Section Rung Spacing: 6 inches on center.
- F. Inside Radius of Fittings: As indicated.
- G. Provide manufacturer's standard clamps, hangers, brackets, splice plates, reducer plates, blind ends, barrier strips, connectors, and grounding straps.
- H. Covers: Flanged, solid, flush cover.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.

3.02 INSTALLATION

- A. Install metallic cable tray in accordance with NEMA VE 1.
- B. Support trays in accordance with Section 26 05 29. Provide supports at each connection point, at the end of each run, and at other points to maintain spacing between supports of 5 ft maximum.
- C. Use expansion connectors where required.
- D. Provide firestopping under provisions of Section 07 84 00 to sustain ratings when passing cable tray through fire-rated elements.
- E. Ground and bond cable tray under provisions of Section 26 05 26.
 - 1. Provide continuity between tray components.
 - 2. Provide 2 AWG bare copper equipment grounding conductor through entire length of tray; bond to each component.
 - 3. Connections to tray may be made using mechanical or exothermic connectors.
- F. Install warning signs at 50 feet centers along cable tray, located to be visible.

END OF SECTION