

CABLE TRAYS FOR ELECTRICAL SYSTEMS

1. GENERAL

1.1 References

- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA C22.1 No.126.1-02, Metal Cable Tray Systems.
- .2 National Electrical Manufacturers Association (NEMA)
 - .1 NEMA VE 1-2002, Metal Cable Tray Systems.
 - .2 NEMA VE 2-2001, Cable Tray Installation Guidelines.

1.2 Submittals

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data: submit manufacturer's product data sheets for cable tray indicating dimensions, materials, and finishes, including classifications and certifications.
- .3 Shop Drawings: submit shop drawings showing materials, finish, dimensions, accessories, layout, and installation details.
- .4 Show actual cabletrough installation details and suspension system.

2. PRODUCTS

2.1 Cabletrough

- .1 Ladder type
- .2 Trays: extruded aluminum or galvanized steel.
- .3 Fittings: horizontal elbows, end plates, drop outs, vertical risers and drops, tees, wyes, expansion joints and reducers where required, manufactured accessories for cabletrough supplied.
- .4 Barriers where different voltage systems are in same cabletrough.
- .5 Ground cable trays with #2 AWG bare copper conductor attached to each tray section in accordance with Manitoba Electrical Code requirements.
- .6 Provide fire stop material at firewall penetrations.

2.2 Supports

- .1 Provide splices, supports as required.

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3. EXECUTION

3.1 Installation

- .1 Install complete cabletrough system
- .2 Support cabletrough on both sides.
- .3 Remove sharp burrs or projections to prevent damage to cables or injury to personnel.

3.2 Cables In Cabletrough

- .1 Install cables individually.
- .2 Lay cables into cabletrough. Use rollers when necessary to pull cables.
- .3 Secure cables in cabletrough at 600 cm centres, with nylon ties.

END OF SECTION