

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u>                          | .1 Canadian Standards Association (CSA International)<br>.1 CAN/CSA C22.1 No.126.1-02, Metal Cable Tray Systems.<br>.2 CAN/CSA C22.1 No.126.2-02, Non Metallic Cable Tray Systems.  |
|  | .2 National Electrical Manufacturers Association (NEMA)<br>.1 NEMA FG 1-1993, Fibreglass and Cable Tray Systems.<br>.2 NEMA VE 1-2002, Metal Cable Tray Systems.<br>.3 NEMA VE 2-2001, Cable Tray Installation Guidelines.  |
| <u>1.2 ACTION AND INFORMATIONAL SUBMITTALS</u> | .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.<br>.2 Product Data: submit manufacturer's product data sheets for cable tray indicating dimensions, materials, and finishes, including classifications and certifications.<br>.3 Shop Drawings: submit shop drawings showing materials, finish, dimensions, accessories, layout, and installation details.<br>.4 Identify types of cabletroughs used.<br>.5 Show actual cabletrough installation details and suspension system. |
| <u>1.3 WASTE MANAGEMENT AND DISPOSAL</u>       | .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.  |
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## PART 2 - PRODUCTS

- 2.1 CABLETROUGH
- .1 Fibreglass ladder tray and steel wire basket tray.
  - .2 Ladder trays: fibreglass reinforced, 228 mm wide with depth of 100 mm unless otherwise noted.
  - .3 Basket tray: 200 mm wide with depth of 100 mm.
  - .4 Fittings: horizontal elbows, end plates, tees, wyes, expansion joints and reducers where required, manufactured accessories for cabletrough supplied.
    - .1 Radii on fittings: 300 mm minimum.
  - .5 Barriers where different voltage systems are in same cabletrough.
  - .6 Ground metal cable trays with #2 AWG bare copper conductor attached to each tray section in accordance with CEC requirements.
- 2.2 SUPPORTS
- .1 Provide splices, supports as required.

## PART 3 - EXECUTION

- 3.1 INSTALLATION
- .1 Ladder tray to be supported on fiberglass struct with threaded rods on each side.
  - .2 Support wall mounted tray on surface mounted struct.
  - .3 Support basket tray on floor pedestals, 25 mm high.
  - .4 Remove sharp burrs or projections to prevent damage to cables or injury to personnel.
  - .5 Tray installation in equipment room and Operations Room includes two parallel runs.

3.1 INSTALLATION .5 (Cont'd)  
(Cont'd) Ensure that runs are properly aligned and evenly spaced. Exact locations and routing to be confirmed with the Departmental Representative before purchasing material.