

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u> | .1 Canadian Standards Association (CSA International)
.1 CAN/CSA C22.1 No.126.1-02, Metal Cable Tray Systems.
.2 CAN/CSA C22.1 No.126.2-02, Non Metallic Cable Tray Systems. |
| | .2 National Electrical Manufacturers Association (NEMA)
.1 NEMA FG 1-1993, Fibreglass and Cable Tray Systems.
.2 NEMA VE 1-2002, Metal Cable Tray Systems.
.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.
.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 Identify types of cabletroughs used.
.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.
 - .2 Support basket tray on floor pedestals, 25 mm high.
 - .3 Remove sharp burrs or projections to prevent damage to cables or injury to personnel.
 - .4 Tray installation in equipment room and operations room includes two parallel runs.
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3.1	INSTALLATION	.4	(Cont'd)
	<u>(Cont'd)</u>		Ensure that runs are properly aligned and evenly spaced. Exact locations and routing to be confirmed with the Departmental Representative before purchasing material.