

PART 1 - GENERAL

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| <u>1.1 WORK INCLUDED</u> | .1 | Provide supports and brackets for installation of equipment, cables, cable trays and conduits in accordance with manufacturer's written requirements and conditions of service. |
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| <u>1.2 MEASUREMENT AND PAYMENT</u> | .1 | Payment for provision of all items specified in this Section shall be by Lot Price. No separate payment will be made for work specified in the Contract Documents. All costs incurred by Contractor in meeting with the requirements of this Section shall be included in the bid price for the Work. |
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| <u>1.3 REFERENCES</u> | .1 | CSA C22.1-09, Canadian Electrical Code, Part 1, Safety Standards for Electrical Installations. |
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| <u>1.4 SUBMITTALS</u> | .1 | Submittals, product data and shop drawings shall be in accordance with Specification Sections 01 33 00 and 26 05 00. |

PART 2 - PRODUCTS

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| <u>2.1 SUPPORT CHANNELS</u> | .1 | U shape, size 41 x 41 mm, 2.5 mm thick, surface mounted suspended or set in poured concrete walls and ceilings as required. |
| | .2 | All support systems and accessories to be HDG (hot dipped galvanized). |

PART 3 - EXECUTION

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| <u>3.1 INSTALLATION</u> | .1 | Secure equipment to hollow or solid masonry, tile and plaster surfaces with lead anchors or nylon shields. |
| | .2 | Secure equipment to poured concrete with expandable inserts. |
| | .3 | Secure equipment to hollow masonry walls or suspended ceilings with toggle bolts. |
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3.1 INSTALLATION
(Cont'd)

- .4 Support equipment, conduit or cables using clips, spring loaded bolts, cable clamps designed as accessories to basic channel members.
- .5 Fasten exposed conduit or cables to building construction or support system using straps.
 - .1 One-hole steel straps to secure surface conduits and cables 50 mm and smaller.
 - .2 Two-hole steel straps for conduits and cables larger than 50 mm.
 - .3 Beam clamps to secure conduit to exposed steel work.
 - .4 Strap AC-90 cable at box location plus every 900 mm.
- .6 Suspended support systems.
 - .1 Support individual cable or conduit runs with 6 mm dia threaded rods and spring clips.
 - .2 Support 2 or more cables or conduits on channels supported by 6 mm dia threaded rod hangers where direct fastening to building construction is impractical.
- .7 For surface mounting of two or more conduits use channels at 1.5 m on centre spacing.
- .8 Provide metal brackets, frames, hangers, clamps and related types of support structures where indicated or as required to support conduit and cable runs.
- .9 Ensure adequate support for raceways and cables dropped vertically to equipment where there is no wall support.
- .10 Do not use wire lashing, wood blocking, plastic strap or perforated strap to support or secure raceways or cables.
- .11 Do not use supports or equipment installed for other trades for conduit or cable support except with permission of other trade and approval of Departmental Representative.
- .12 Install fastenings and supports as required for each type of equipment cables and conduits, and in accordance with manufacturer's installation recommendations.
- .13 Select fastenings and supports of similar materials to those they attach to, to avoid galvanic corrosion.