

## PART 1 - GENERAL

- |  |    |  |
|--|----|--|
| <u>1.1 References</u>                    | .1 | CSA C22.1-1998, Canadian Electrical Code, Part 1.  |
| <u>1.2 Waste Management and Disposal</u> | .1 | Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal, and with the Waste Reduction Workplan. |
|  | .2 | Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.   |

## PART 2 - PRODUCTS

- |   |    |  |
|---|----|--|
| <u>2.1 Outlet and Conduit Boxes General</u> | .1 | Size boxes in accordance with CSA C22.1.   |
|   | .2 | 102 mm (4") square or larger outlet boxes as required for special devices.   |
|   | .3 | Gang boxes where wiring devices are grouped.   |
|   | .4 | Blank cover plates for boxes without wiring devices.   |
|   | .5 | Combination boxes with barriers where outlets for more than one system are grouped.  |
| <u>2.2 Sheet Steel Outlet Boxes</u>         | .1 | Electro-galvanized steel, single and multi gang flush device boxes for flush installation, minimum size 76 x 50 x 38 mm (3" x 2" x 1 1/2") or as indicated. 102 mm (4") square outlet boxes when more than one conduit enters one side with extension and plaster rings as required. |
|   | .2 | Electro-galvanized steel utility boxes for outlets connected to surface-mounted EMT conduit, minimum size 102 x 54 x 48 mm (4" x 2 1/8" x 1 7/8").   |
|   | .3 | 102 mm (4") square or octagonal outlet boxes for lighting fixture outlets.   |
|   | .4 | 102 mm (4") square outlet boxes with extension and plaster rings for flush mounting devices in finished plaster or tile walls.   |

- 2.3 Masonry Boxes .1 Electro-galvanized steel masonry single and multi gang boxes for devices flush mounted in exposed block walls.
- 2.4 Concrete Boxes .1 Electro-galvanized sheet steel concrete type boxes for flush mount in concrete with matching extension and plaster rings as required.
- 2.5 Conduit Boxes .1 Cast FS or FD ferrous boxes with factory-threaded hubs and mounting feet for surface wiring where rigid steel conduit is used.
- 2.6 Fittings - General .1 Bushing and connectors with nylon insulated throats.  
.2 Knock-out fillers to prevent entry of debris.  
.3 Conduit outlet boxes for conduit up to 32 mm (1 1/4") and pull boxes for larger conduits.  
.4 Double locknuts and insulated bushings on sheet metal boxes.

### PART 3 - EXECUTION

- 3.1 Installation .1 Support boxes independently of connecting conduits.  
.2 Fill boxes with paper, sponges or foam or similar approved material to prevent entry of debris during construction. Remove upon completion of work.  
.3 For flush installations, where required, mount outlets flush with finished wall using plaster rings to permit wall finish to come within 6 mm (1/4") of opening.  
.4 Provide correct size of openings in boxes for conduit, mineral insulated and armoured cable connections. Reducing washers are not allowed.