

## **1. PART 1 – GENERAL**

### **1.1 References**

- .1 CSA C22.1, Quebec Construction Code – Chapter V - Electricity.

## **2. PART 2 – PRODUCTS**

### **2.1 Outlet and conduit boxes – General**

- .1 Size boxes in accordance with CSA C22.1.
- .2 100 mm 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.
- .5 347 V outlet boxes for 347 V switching devices.
- .6 Combination boxes with barriers where outlets for more than one system are grouped.

### **2.2 Outlet boxes**

- .1 Single and multi gang flush device boxes for flush installation, minimum size 75 x 50 x 13 mm or as indicated. 50 mm 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 100 x 50 x 50 mm.
- .3 50 mm square or octagonal outlet boxes for lighting fixture outlets.
- .4 50 mm square outlet boxes with extension and plaster rings for flush mounting devices in finished plaster walls.

### **2.3 Masonry boxes**

- .1 Masonry single and multi gang boxes for devices flush mounted in exposed block walls.

### **2.4 Concrete boxes**

- .1 Concrete type boxes for flush mount in concrete with matching extension and plaster rings as required.

### **2.5 Branch boxes (for conduits)**

- .1 Cast FS or FD aluminum feraloy boxes with factory threaded hubs and mounting feet for surface wiring of switches and receptacle from M.A.L.T.

### **2.6 Fittings – General**

- .1 Bushing and connectors with nylon insulated throats.
- .2 Knock out fillers to prevent entry of debris.
- .3 Conduit outlet bodies for conduit up to 6 mm and pull boxes for larger conduits.
- .4 Double locknuts and insulated bushings on sheet metal boxes.

## 2.7 Materials

- .1 Steel, galvanized steel, aluminium and/or PVC as indicated.

## 3. PART 3 – EXECUTION

### 3.1 General

- .1 Unless otherwise indicated, use following materials:
  - .1 Outside:
    - ☐ galvanized steel
    - ☐ aluminum
    - ☐ PVC
    - ☐
  - .2 Dry area:
    - ☒ steel
    - ☐
  - .3 Damp and wet areas:
    - ☐ galvanized steel
    - ☐ aluminum
    - ☒ PVC
- .2 Outside, in damp and wet areas, all fittings to be weatherproof.

### 3.2 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, mount outlets flush with finished wall using plaster rings to permit wall finish to come within 1/4" of opening.
- .4 Provide correct size of openings in boxes for conduit and armoured cable connections. Reducing washers are not allowed.