

**Part 1            General**

**1.1                RELATED SECTIONS**

- .1            Section 26 05 00 - Common Work Results for Electrical.

**1.2                REFERENCES**

- .1            Canadian Standards Association (CSA International).
  - .1            CSA C22.1-10, Canadian Electrical Code, Part 1, and modifications of Quebec, 21<sup>st</sup> Edition.
  - .2            CSA C22.2 No. 40-M1989 (R2009) - Cutout, Junction and Pull Boxes.

**1.3                ACTION AND INFORMATIONAL SUBMITTALS**

- .1            Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

**1.4                DELIVERY, STORAGE, AND HANDLING**

- .1            Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2            Waste Management and Disposal:
  - .1            Separate waste materials for recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

**1.5                ACCEPTABLE PRODUCTS AND MATERIALS**

- .1            Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products.

**Part 2            Products**

**2.1                OUTLET AND CONDUIT BOXES GENERAL**

- .1            Size boxes in accordance with CSA C22.1.
- .2            102 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                GALVANIZED STEEL OUTLET BOXES**

- .1            One-piece electro-galvanized construction.

- .2 Single and multi-gang flush device boxes for flush installation, minimum size 76 x 50 x 38 mm or as indicated. 102 mm square outlet boxes when more than one conduit enters one side with extension and plaster rings as required.
- .3 Utility boxes for outlets connected to surface-mounted EMT conduit, minimum size 102 x 54 x 48 mm.
- .4 102 mm square or octagonal outlet boxes for lighting fixture outlets.
- .5 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.
  - .1 Outlet boxes for surface-mounted luminaires shall be totally hidden by the luminaires.

### **2.5 FLOOR BOXES**

- .1 Concrete tight electro-galvanized sheet steel floor boxes with adjustable finishing rings to suit floor finish with brushed aluminum faceplate. Device mounting plate to accommodate short or long ear duplex receptacles and telecommunications receptacles.

### **2.6 CONDUIT BOXES**

- .1 Cast FS or FD aluminum boxes with factory-threaded hubs and mounting feet for surface wiring of devices.

### **2.7 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 35 mm and pull boxes for larger conduits.
- .4 Double locknuts and insulated bushings on sheet metal boxes.

### **2.8 ACCEPTABLE PRODUCTS**

- .1 Boxes and fittings:
  - .1 Iberville (Thomas & Betts).
  - .2 Wiremold (Legrand).
  - .3 Hubbell.
  - .4 Replacement materials or products: approved by addendum according to Instructions to bidders.

**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 mount outlets flush with finished wall using plaster rings to permit wall finish to come within 6 mm of opening.
- .4      Provide correct size of openings in boxes for conduit, mineral insulated and armoured cable connections. Do not install reducing washers.
- .5      Install recessed boxes with extensions, raised covers and frames suitable for types of walls as indicated in architectural drawings and specifications.
- .6      Vacuum clean interior of outlet boxes before installation of wiring devices.
- .7      Identify systems for outlet boxes as required.

**END OF SECTION**