

---

**Part 1            GENERAL**

**1.1            RELATED SECTIONS**

- .1      Section 26 05 00 – Common Work Results – Electrical.
- .2      Section 26 05 29 – Hangers and Supports for Electrical Systems.
- .3      Section 26 05 34 – Conduits, Conduit Fastenings and Fittings

**1.2            REFERENCES**

- .1      Canadian Standards Association (CSA International)
  - .1      CSA C22.1-2015, Canadian Electrical Code, Part 1, 20th Edition.

**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.
- .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 walls.

## **2.3 CONDUIT BOXES**

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

## **2.4 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.

## **2.5 SERVICE FITTINGS**

- .1 'High tension' receptacle fitting made of 2 piece die-cast aluminum with brushed aluminum housing finish for 1 duplex receptacles. Bottom plate with two knockouts for centered or offset installation. 12 x 102 mm extension piece as indicated.

# **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 Vacuum clean interior of outlet boxes before installation of wiring devices.
- .6 Identify systems for outlet boxes as required.

**END OF SECTION**