

## **1. General Information**

### **1.1 References**

- .1 Canadian Standards Association (CSA)/CSA International
- .1 CSA C22.1, Canadian Electrical Code, First section.

### **1.2 Documents / Samples to be submitted**

- .1 Submit the documents and samples required in accordance with the section 01 33 00 - Documents and samples to be submitted.

## **2. Products**

### **2.1 Outlet and junction boxes - General information**

- .1 Boxes with dimensions in accordance with CSA C22.1.
- .2 Outlet boxes of at least 102 mm edgeways, as required.
- .3 Boxes grouped when several small appliances are installed in the same place.
- .4 Full lids for boxes without small appliances.
- .5 Combined boxes with partitions when the outlets of more than one network are grouped together.

### **2.2 Outlet boxes in galvanized steel.**

- .1 One-piece boxes in electrogalvanized steel.
- .2 Single or bundled boxes, at least 76 mm x 50 mm x 38 mm or as indicated, for flush mounting. 102 mm outlet boxes when more than one conduit is on the same side, with extension frames and plaster frames, as required.
- .3 Junction boxes of at least 102 mm x 54 mm x 48 mm, for connections to protruding EMT tubes.
- .4 102 mm square or octagonal square outlet boxes for lighting fixtures.
- .5 Extension frames and plaster frames, for flush mounting in walls covered with ceramic tiles.

### **2.3 Junction boxes (for conduits)**

- .1 Molded FS or FD aluminum boxes, with factory threaded openings, and mounting

brackets for surface mounting.

## **2.4 Accessories - General information**

- .1 End caps and connectors with nylon insulated collar.
- .2 Hole plugs to prevent debris from entering.
- .3 Access fittings for conduits up to 35 mm in diameter and pull boxes for larger conduits.
- .4 Double locknuts and insulated sleeves on sheet metal boxes.

## **3. Execution**

### **3.1 Installation**

- .1 Secure the boxes so that they are supported independently of the conduits that are connected to them.
- .2 Fill boxes with paper, sponge, foam or similar material to prevent debris from entering during construction. Remove these materials once the work is completed.
- .3 In the case of outlet boxes that are flush with the finished wall, use plaster frames to allow the edges of the wall covering to be 6 mm or less from the opening.
- .4 The openings in the boxes must be equal to the dimensions that correspond to those of the conduit fittings, mineral insulated cables and armoured cables. It's forbidden to use reduction washers.
- .5 Vacuum the inside of the outlet boxes before installing the smaller appliances.
- .6 Identify outlet boxes as required.

**END OF SECTION**