

PART 1 - GENERAL

Not applicable

PART 2 - PRODUCTS

2.1 OUTLET AND
CONDUIT BOXES

- .1 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 Combination boxes with barriers where outlets for more than one system are grouped.
- .2 Sheet steel outlet boxes:
 - .1 Electro-galvanized steel single and multi-gang flush device boxes for flush installation, minimum size 75 x 50 x 38 mm or as indicated. 100 mm square outlet boxes when more than one conduit enters one side.
 - .2 100 mm square or octagonal outlet boxes for lighting fixture outlets.
 - .3 Electro-galvanized steel utility boxes for outlets connected to surface mounted EMT, minimum size 100mm x 54mm x 47mm.
- .3 Masonry boxes: electro-galvanized steel masonry single and multi-gang boxes for devices flush mounted in exposed block walls.
- .4 Concrete boxes: electro-galvanized steel concrete type boxes for flush mount in concrete with matching extension and plaster rings as required.
- .5 Surface mounted outlet boxes:
 - .1 Cast FS or FD copper free aluminum or feralloy boxes (to match conduit material) with factory threaded hubs and mounting feet for surface wiring of switches, receptacles, thermostats, etc.
 - .2 NEMA 4X PVC outlet boxes in areas where PVC conduit is to be used.

2.2 FITTINGS -
GENERAL

- .1 Bushing and connectors with nylon insulated throats.
- .2 Knock-out fillers to prevent entry of foreign materials.
- .3 Conduit outlet bodies for conduit up to 32 mm and pull boxes for larger conduits.

2.2 FITTINGS - GENERAL
(Cont'd)

.4 Double locknuts and insulated bushings on sheet metal boxes. Use watertight bushings and cable connectors for all cable/conduit terminations in process control cabinets and NEMA 3R/4/4X pull/junction boxes.

2.3 PULL PITS

.1 Open bottom, poly concrete composite material to ASTM C857.

.2 Covers pedestrian rated.

.3 Cover wording: "ELECTRICAL".

.4 Acceptable Material: Carson 1015 or equivalent.

PART 3 - EXECUTION

3.1 OUTLET BOX, AND CONDUIT BOX INSTALLATION

.1 Support boxes independently of connecting conduits.

.2 Fill boxes with paper, sponges or foam or similar approved material to prevent entry of construction material.

.3 Provide correct size of openings in boxes for conduit and armoured cable connections. Reducing washers not allowed.

.4 In finished areas, outlet boxes shall be recessed.

.5 On exterior walls, outlet boxes shall be recessed.

3.2 PULL PITS

.1 Install 300mm gravel bedding as a minimum for drainage.

.2 Level box and adjust height to have the cover flush with the finished grade.