

PART 1 - GENERAL

- | | | |
|---|----|--|
| <u>1.1 RELATED SECTIONS</u> | .1 | Section 26 05 00 - Electrical General Requirements. |
| | .2 | Section 26 05 29 - Hangers and Supports for Electrical. |
| | .3 | Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings. |
| <u>1.2 REFERENCES</u> | .1 | CSA C22.1-2012, Canadian Electrical Code, Part 1. |
| <u>1.3 SUBMITTALS</u> | .1 | Provide submittals in accordance with Section 01 33 00 - Submittal Procedures. |
| <u>1.4 DELIVERY, STORAGE AND HANDLING</u> | .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 reuse and recycling in accordance with Section 01 74 22 - Construction/Demolition Waste Management and Disposal. |

PART 2 - PRODUCTS

- | | | |
|---|----|---|
| <u>2.1 OUTLET AND CONDUIT BOXES GENERAL</u> | .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 | 347V outlet boxes for 347V switching devices. |
| | .6 | Provide combination boxes with barriers where outlets for more than one (1) system are grouped. |
-

2.1 OUTLET AND
CONDUIT BOXES
GENERAL
(Cont'd)

- .7 Provide rough in boxes for special equipment or devices in accordance with the manufacturer's approved shop drawings.
- .8 Acceptable Material:
 - .1 Iberville GSB series with GBC covers for 120/208 V and communication applications.
 - .2 Iberville MBS/MBD Series for 347 volt application.

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.
- .5 102 mm square outlet boxes with extension and plaster rings for flush mounting devices in finished plaster walls.

2.3 MASONRY BOXES

- .1 Electro-galvanized steel masonry single and multi gang boxes for devices flush mounting 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.

2.5 CONDUIT BOXES

- .1 Metallic cast FS or FD boxes with factory-threaded hubs and mounting feet for surface wiring of switches and receptacle.

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 32 mm and pull boxes for larger conduits.
- .4 Double locknuts and insulated bushings on sheet metal boxes.
- .5 Double split rings for AC-90 terminations.

2.7 FLOOR BOXES

- .1 Concrete tight electro-galvanized steel floor boxes with adjustable finishing rings to suit floor finish. Device mounting plate to accommodate short or long ear receptacles. Minimum depth: 28 mm for receptacles, 73 mm for communication equipment.
- .2 Acceptable materials:
 - .1 Floor box: Hubbell HBLCFB401 BASE c/w HBLTCGNTSW lid.
 - .2 Faceplates:
 - .1 Duplex Receptacle: HBLST302SGY
 - .2 Single Data/Telephone: HBLN0311SGY
 - .3 Double Data/Telephone: HBLN0312SGY
 - .4 Blank: HBLBL300SGY
 - .5 Other plates: Refer to drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Support boxes independently of connecting conduits.
 - .1 Support boxes placed on/or between steel studs by Caddy TSGB supports or other acceptable product. Where only one (1) box requires support, it may be directly attached to the metal stud only if this places the box in the correct position. Locate boxes to suit stud locations. The governing rules for box location will be room function and room to room sound transmission.
 - .2 Support boxes in T-Bar Ceilings by Caddy 512HD Heavy Duty hangers and 510HD box mounting clips or other acceptable product.
 - .3 Install boxes in exterior walls with due consideration given to the special wall construction. Provide extension rings or boxes with suitable depths.

3.1 INSTALLATION
(Cont'd)

- .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 and armoured cable connections. Reducing washers are not allowed.
- .5 Vacuum clean interior of outlet boxes before installation of wiring devices.
- .6 Identify systems for outlet boxes as required.