

## **1. General Information**

### **1.1 Section Contents**

- .1 Switches, sockets, cover plates and other wiring devices and their installation.

### **1.2 Related sections**

- .1 Section 01 33 00 -Documents/samples to be submitted.
- .2 Section 26 05 00 - Electricity - General requirements for work results

### **1.3 References**

- .1 Canadian Standards Association (CSA)/CSA International
  - .1 CSA-C22.2 No.42-99(R2002), General Use Receptacles, Attachment Plugs and Similar Devices.
  - .2 CSA-C22.2 number 42.1-00, Cover Plates for Flush-Mounted Wiring Devices (Bi-National standard, with UL 514D)
  - .3 CSA-C22.2 number 55, Special use switches
  - .4 CSA-C22.2 No.111-00, General-Use Snap Switches (Bi-national standard, with UL 20).

### **1.4 Workshop drawings and data sheets**

- .1 Submit the data sheets and workshop drawings required in accordance with the section 01 33 00 - Documents and samples to be submitted.

## **2. Products**

### **2.1 Line switches**

- .1 Switches: 15A, 120 V in accordance with the CSA-C22.2 number 55 standard and CSA-C22.2 number 111 standard.

- .2 Switches: manually operated, general use, c.a., with the following characteristics:
  - .1 Connection ports: for 10 AWG wires.
  - .2 Contacts: silver alloy.
  - .3 Molded elements made from urea resins or melamine resins to counter the effects of carbon deposits.
  - .4 Connection: side or rear.
  - .5 Toggle: white unless mentioned in the plan.
  - .6 Arc-resistant thermoplastic.
- .3 For all work, use only commercial grade switches from the same manufacturer.

## **2.2 Sockets**

- .1 Double socket outlets for all rooms, CSA 5-15 R 125 V, 15 A, U-shaped grounding socket for filler plates in accordance with the 2009 electrical code, with the following characteristics.
  - .1 Molded case made from urea resins, white unless mentioned in the plan.
  - .2 For side or rear connection 10 AWG wire.
  - .3 Partition links for conversion into separate outlets.
  - .4 Eight (8) rear connection ports, four (4) screw terminals for side connection.
  - .5 Double friction contacts and riveted grounding contacts.
  - .6 Commercial grade superior category.
  - .7 Filler plate preventing access to contacts without the action of mechanically connecting a plug.

- .2 Double socket type CSA 5-15 R, 125 V, 15 A, U-shaped grounding receptacle in accordance with the CSA-C22.2 number 42 standard, with the following characteristics.
  - .1 Molded case made from urea resins, white unless mentioned in the plan.
  - .2 For side or rear connection 10 AWG wire.
  - .3 Partition links for conversion into separate outlets.
  - .4 Eight (8) rear connection ports, four (4) screw terminals for side connection.
  - .5 Double friction contacts and riveted grounding contacts.
  - .6 Commercial grade superior category.
- .3 Single sockets, type CSA 5-15 R, 125 V, 15 A, U grounding socket, with the following characteristics.
  - .1 Molded case made from urea resins, white unless mentioned in the plan.
  - .2 For side or rear connection 10 AWG wire.
  - .3 Four (4) rear connection ports, two (2) screw terminals for side connection.
  - .4 All devices must be recessed unless otherwise specified.
- .4 Other sockets of acceptable voltage and current as indicated in the plan.
- .5 For all work, only use sockets from the same manufacturer.

## **2.3 Cover plates**

- .1 Equip all wiring devices with a cover plate in accordance with CSA-C22.2 number 42.1.
- .2 For all work, only use cover plates from the same manufacturer.
- .3 Cover plates made of sheet steel for surface mounted junction boxes.
- .4 1mm thick vertical brushed stainless steel cover plates for wiring devices mounted in recessed outlet boxes.
- .5 Cover plates: in sheet metal for wiring devices mounted in FS or FD type conduit boxes, surface-mounted.
- .6 Molded aluminum weatherproof cover plates, double leaf, with double spring seals, as indicated.

## **3. Execution**

### **3.1 Installation**

- .1 Switches
  - .1 Install one-way switches so that the handle is up when the contacts are closed.
  - .2 Install switches grouped in output boxes, when you have more than one switch in one place.
  - .3 Install toggle switches at the specified height.
- .2 Sockets:
  - .1 Install sockets grouped in output boxes, when you have more than one socket in one place.
  - .2 Install the sockets at the indicated height.
  - .3 In the case of double sockets converted into separate sockets, one of which is connected to a switch, place the switch at the top of the box mounted vertically.

.3 Cover plates:

- .1 Protect the finish of stainless steel cover plates with a sheet of paper or plastic wrap that will not be removed until all painting and other work has been completed.
- .2 Install an appropriate common cover plate on grouped wiring devices.
- .3 It is forbidden to install cover plates which are designed for built-in boxes on cover-mounted boxes.

**END OF SECTION**