

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u>                          | .1 | Canada Green Building Council (CaGBC)<br>.1 LEED Canada-NC-2009, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations.  |
|  | .2 | CSA International<br>.1 CSA C22.2 No.42-10, General Use Receptacles, Attachment Plugs and Similar Devices.<br>.2 CAN/CSA C22.2 No.42.1-00(R2009), Cover Plates for Flush-Mounted Wiring Devices (Bi-national standard, with UL 514D).<br>.3 CSA C22.2 No.55-M1986(R2008), Special Use Switches.<br>.4 CSA C22.2 No.111-10, General-Use Switches (Bi-national standard, with UL 20).  |
| <u>1.2 ACTION AND INFORMATIONAL SUBMITTALS</u> | .1 | Submit in accordance with Section 01 33 00 - Submittal Procedures.   |
|  | .2 | Product Data:<br>.1 Submit manufacturer's instructions, printed product literature and data sheets for wiring devices and include product characteristics, performance criteria, physical size, finish and limitations.  |
|  | .3 | Sustainable Design Submittals:<br>.1 LEED Canada submittals: in accordance with Section 01 35 21 - LEED Requirements.<br>.2 Construction Waste Management:<br>.1 Submit project Waste Management Plan highlighting recycling and salvage requirements.<br>.2 Submit calculations on end-of-project recycling rates, salvage rates, and landfill rates demonstrating that 75% of construction wastes were recycled or salvaged. |

1.3 CLOSEOUT SUBMITTALS .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.

1.4 DELIVERY, STORAGE AND HANDLING .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.

.2 Develop Construction Waste Management Plan related to Work of this Section and in accordance with Section 01 35 21 - LEED Requirements.

.3 Packaging Waste Management: remove for reuse or return of pallets, crates, padding, banding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.

## PART 2 - PRODUCTS

2.1 RECEPTACLES .1 Duplex receptacles, specification grade, CSA type 5-15 R, or 5-20R, 125 V, 15 A or 20 A, U ground, to: CSA C22.2 No.42 with following features:

.1 White urea moulded housing.

.2 Suitable for No. 10 AWG for back and side wiring.

.3 Break-off links for use as split receptacles.

.4 Eight back wired entrances, four side wiring screws.

.5 Triple wipe contacts and rivetted grounding contacts.

.2 Receptacles fed from the UPS to be red color.

.3 Other receptacles with ampacity and voltage as indicated.

.4 Receptacles of one manufacturer throughout project.

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2.1 RECEPTACLES (Cont'd)	.5	Standard of Acceptance: .1 Hubbell. .2 Cooper. .3 Pass and Seymour. .4 Levitron.
2.2 TWIST-LOCK RECEPTACLES	.1	15 and 20 amp; 125 volts NEMA L5-15R and L6-15R single receptacle, reinforced thermoplastic with single brass contacts, brass mounting straps, back and side wiring. Mount in cast single gang box with cast cover for surface applications and in recessed box with stainless steel cover for flush mounted devices. Provide matching plugs.
	.2	30 amp 240 volt NEMA L6-30R single receptacle, reinforced thermoplastic with single brass contacts, brass mounting straps, back and side wiring. Mount in cast single gang box with cast cover.
2.3 SPECIAL WIRING DEVICES	.1	Special wiring devices: as indicated.
2.4 COVER PLATES	.1	Cover plates for wiring devices to: CSA C22.2 No.42.1.
	.2	Stainless steel, vertically brushed, 1 mm thick cover plates for wiring devices mounted in flush-mounted outlet box.
	.3	Cast cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
	.4	Weatherproof while-in use cast aluminum cover plates, complete with gaskets for duplex receptacles as indicated.
	.5	Identification: cover plates to be provided with permanently attached nameplates to identify the circuit numbers. Engraved plastic with 5 mm high letters.

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2.5 SOURCE QUALITY CONTROL .1 Cover plates from one manufacturer throughout project.

PART 3 - EXECUTION

3.1 INSTALLATION .1 Receptacles:  
.1 Install receptacles in gang type outlet box when more than one receptacle is required in one location.  
.2 Mount receptacles at height in accordance with Section 26 05 00 - Common Work Results for Electrical as indicated.  
.3 Install GFI type receptacles as indicated.  
.2 Cover plates:  
.1 Install suitable common cover plates where wiring devices are grouped.  
.2 Do not use cover plates meant for flush outlet boxes on surface-mounted boxes.

3.2 CLEANING .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.  
.2 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.  
.1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.3 PROTECTION .1 Protect installed products and components from damage during construction.  
.2 Protect stainless steel cover plate finish with paper or plastic film until painting and other work is finished.  
.3 Repair damage to adjacent materials caused by wiring device installation.