

PART 1 - GENERAL

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| <u>1.1 SECTION INCLUDES</u> | .1 | Materials and installation for standard and custom breaker type panelboards. |
| <u>1.2 RELATED SECTIONS</u> | .1 | Section 26 05 00 - Common Work Results - Electrical. |
| | .2 | Section 26 28 16.02- Moulded Case Circuit Breakers. |
| <u>1.3 REFERENCES</u> | .1 | Canadian Standards Association (CSA International)
.1 CSA C22.2 No. 29-M1989 (R2004), Panelboards and enclosed Panelboards. |
| <u>1.4 SHOP DRAWINGS</u> | .1 | Submit shop drawings. |
| | .2 | Drawings to include electrical detail of panel, branch breaker type, quantity, ampacity and enclosure dimension. |

PART 2 - PRODUCTS

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| <u>2.1 PANELBOARDS</u> | .1 | Panelboards: to CSA C22.2 No.29 and product of one manufacturer.
.1 Install circuit breakers in panelboards before shipment.
.2 In addition to CSA requirements manufacturer's nameplate must show fault current that panel including breakers has been built to withstand. |
| | .2 | 250 and 600 V panelboards: bus and breakers rated for the interrupting capacity or as indicated. |
| | .3 | Sequence phase bussing with odd numbered breakers on left and even on right, with each breaker identified by permanent number identification as to circuit number and phase. |
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2.1 PANELBOARDS
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- .4 Panelboards: mains, number of circuits, and number and size of branch circuit breakers as indicated.
- .5 Two keys for each panelboard and key panelboards alike.
- .6 Copper bus with neutral of same ampere rating as mains.
- .7 Mains: suitable for bolt-on breakers.
- .8 Trim with concealed front bolts and hinges.
- .9 Trim and door finish: baked grey enamel.

2.2 BREAKERS

- .1 Breakers: to Section 26 28 16.02 - Moulded Case Circuit Breakers.
- .2 Breakers with thermal and magnetic tripping in panelboards except as indicated otherwise.
- .3 Main breaker: separately mounted on top or bottom of panel to suit cable entry. When mounted vertically, down position should open breaker.
- .4 Lock-on devices for 10% of 15 to 30 A breakers installed as indicated. Turn over unused lock-on devices to Departmental Representative.

2.3 EQUIPMENT IDENTIFICATION

- .1 Provide equipment identification in accordance with Section 26 05 00 - Common Work Results - Electrical.
 - .2 Nameplate for each panelboard size 7 engraved with the following information:
 - .1 Panelboard Name Tag
 - .2 Voltage/Phase/Wire
 - .3 Feeder OCP Location
 - .3 Nameplate for each circuit in distribution panelboards size 2 engraved as indicated.
 - .4 Complete circuit directory with typewritten legend showing location and load of each circuit.
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PART 3 - EXECUTION

- 3.1 INSTALLATION
- .1 Locate panelboards as indicated and mount securely, plumb, true and square, to adjoining surfaces.
 - .2 Install surface mounted panelboards on plywood backboards. Where practical, group panelboards on common backboard.
 - .3 Mount panelboards to height specified in Section 26 05 00 - Common Work Results - Electrical or as indicated.
 - .4 Connect loads to circuits.