**SECTION 26 27 16**

**ELECTRICAL CABINETS AND ENCLOSURES**

**PART 1 GENERAL**

1. SECTION INCLUDES
   1. Hinged cover enclosures
   2. Cabinets
   3. Terminal blocks and accessories
2. REFERENCES
   1. NEMA 250 ‑ Enclosures for Electrical Equipment (1000 Volts Maximum)
   2. NEMA ICS 1 ‑ Industrial Control and Systems: General Requirements
   3. NEMA ICS 4 – Application Guideline for Terminal Blocks
   4. NEMA ICS 6 ‑ Enclosures
3. SUBMITTALS
   1. Submit product data under provisions of Section 01 33 00.
   2. Shop Drawings for Equipment Panels: Include wiring schematic diagram, wiring diagram, outline drawing and construction diagram as described in NEMA ICS 1.

**PART 2 PRODUCTS**

1. HINGED COVER ENCLOSURES
   1. Construction: Use NEMA 250 steel types as required to meet conditions of installation unless indicated on the Drawings.
   2. Finish: Use manufacturer's standard enamel finish.
   3. Covers: Continuous hinge, held closed by flush latch operable by key.
   4. Panel for Mounting Terminal Blocks or Electrical Components: 14-gage steel, enamel finish.
2. CABINETS
   1. Cabinet Boxes: Provide galvanized steel with removable end walls.
      1. Provide ¾" thick plywood backboard (exterior fir, type A/C, 7 ply) painted gray on all sides, for mounting terminal blocks.
   2. Cabinet Fronts: Steel, flush or surface type with screw cover front, concealed hinge and flush lock keyed to match branch circuit panel board; finish in baked enamel.
3. TERMINAL BLOCKS AND ACCESSORIES
   1. Terminal Blocks: NEMA ICS 4; UL listed.
   2. Power Terminals: Unit construction type, closed‑back type, with tubular pressure screw connectors, rated 600 volts.
   3. Signal and Control Terminals: Modular construction type, channel mounted; tubular pressure screw connectors, rated 300 volts.
4. FABRICATION
   1. Shop assemble the enclosures and cabinets housing terminal blocks or electrical components in accordance with NEMA ICS 6.
   2. Provide knockouts on enclosures.
   3. Provide protective pocket inside front cover with schematic diagram, connection diagram, and layout drawing of control wiring and components within enclosure.

**PART 3 EXECUTION**

1. INSTALLATION
   1. Install cabinets and enclosures plumb; anchor securely to wall and structural supports at each corner, minimum.
   2. Provide accessory feet for free‑standing equipment enclosures.
   3. Install trim plumb.

END OF SECTION