

SECTION 262416 - PANELBOARDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Distribution panelboards.
 - 2. Lighting and appliance branch-circuit panelboards.
 - 3. Load centers.

1.3 STANDARDS AND CODES

- A. Fabrication and installation shall comply with applicable Sections of NEC, Article 408, and shall bear UL label.

1.4 DESCRIPTION

- A. Panelboards described in this Section shall be dead-front, safety type furnished with thermal-magnetic molded case circuit breakers. Shall be for lighting, receptacle and applicable branch circuit application. Circuit breakers shall have frame and trip ratings.

1.5 QUALIFICATIONS

- A. Panelboards and load shall be a product manufactured by:
 - 1. Sq. D.
 - 2. Eaton (Cutler Hammer)
 - 3. G.E.
 - 4. Siemens

1.6 SUBMITTALS

- A. Shop drawings to include outline drawings, lug and bus arrangement, ampere and voltage rating, breaker trip ratings, frame sizes, and interrupting ratings.

PART 2 - PRODUCTS

2.1 PANELBOARDS

- A. Fronts shall include doors and have flush cylinder tumbler-type locks with catches and doors pulls (Clubhouse and Common areas only). All panelboard locks shall be keyed alike. Front shall have adjustable trim clamps. Fronts shall not be removable with door in the locked position. A circuit directory frame and card with a clear plastic covering shall be provided on the inside of the door. The directory card shall provide a space of at least ¼" high x 3" long or equivalent for each circuit. The directory shall be typed to identify the load fed by each circuit.
- B. Wiring Terminals: Terminals for feeder conductors to the panelboard mains and neutral shall be UL listed and suitable for the type of conductor specified. Terminals for branch circuit wiring, both breaker and neutral, shall be UL listed as suitable for the type of conductor specified.
- C. Circuit Breakers: Circuit breakers shall be quick-make, quick-break, thermal-magnetic, trip indicating, and have common trip on all multiple breakers. Circuit breakers shall be plug-on type equipped with individually insulated, braced and protected connectors. The front faces of circuit breakers shall be flush with each other. Large permanent individual circuit numbers shall be affixed in a uniform position (or equip each breaker with a circuit card holder and neatly printed card identifying the circuit). Tripped indication shall be clearly shown by the breaker handle taking a position between ON and OFF. Provisions for additional breakers shall be such that no additional connectors will be required to add breakers.
- D. Integrated Equipment Rating: Each panelboards, as complete unit, shall have a rating equal to or greater than the integrated equipment rating shown on the panelboards schedule.

2.2 LOAD CENTERS

- A. Mains: Main lugs only or as called for on plans.
- B. Branch Overcurrent Protective Devices: Plug-in circuit breakers, replaceable without disturbing adjacent units.
- C. Conductor Connectors: Mechanical type for main, neutral, and ground lugs and buses.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Securely anchor panelboards to structure and make feeder and branch circuit connections as required.
- B. Provide nameplates and directory cards per Section 260500.

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- C. Directories shall identify each circuit by room number, lights, receptacles, equipment identification, etc.

END OF SECTION 262416