PANELBOARDS

DESIGN GUIDELINES

1. Summary:
   a. This section provides guidelines and standards for UL 67 Panelboards.

2. Design
   a. All panels shall be fully rated for their associated available short circuit.
   b. Lighting and receptacle panels shall have Main Circuit Breakers.
   c. Panels shall have bolt-on branch circuit breakers.
   d. Panels shall have copper bus.
   e. Panels shall have a ground bus.
   f. Isolated ground bus shall be provided if needed to meet project specific requirements.
   g. Minimum lighting and receptacle panel amperage rating is 100 amps. 225 amp, 42 circuit is preferred.
   h. Up to 84 circuit, single section panels shall be allowed.
   i. Provide panels with feed thru lugs for a second section, where required. Multi-section boards to have the same size enclosure.
   j. Panels shall be flush or surface mounted, depending upon location. Typically, flush-mounted in finished spaces; surface-mounted in mechanical or electrical rooms.
   k. Panel covers shall be “door-in-door” construction.
   l. Load Centers are not allowed.
   m. Spare conduits shall be provided from flush-mounted panels to above the accessible ceiling for future use.
   n. Lighting panels shall be 480Y/277 Volt, 3 phase, 4 wire, and ground.
   o. Receptacle panels shall be 208Y/120 Volt, 3 phase, 4 wire, and ground
   p. Distribution panels may be fusible or circuit breaker type, 400, 600, or 800 amp bus, and 3 phase, 4 wire and ground, 480Y/277 Volt or 208Y/120 Volt, as required.
   q. Distribution panelboard, all sections, will have copper bussing the full height of the panelboard to allow maximum space for future breakers. Provide 42” wide minimum interior width. Panel height/breaker mounting space, as determined by electrical engineer.

3. Related Sections
   a. Identification of Electrical Systems
   b. Service and Distribution
   c. Circuit Breakers
   d. Grounding and Bonding
EQUIPMENT and PRODUCT REQUIREMENTS

1. Panelboards:
   a. Approved Manufacturers:
      • Square D
      • Eaton Cutler-Hammer

END OF SECTION