EQ® NORMAL-DUTY PANELBOARDS

TYPICAL SPECIFICATIONS

Circuit-breaker lighting and appliance panelboards shall be furnished and installed by the contractor and shall be equipped with quick-make, quick-break Plug-in (NPAB) or Bolted-In (NLAB) EQ circuit breakers as shown on the plans.

Each panelboard interior shall consist of a rigid steel backplate with provisions for fastening to studs in the back-box. Phenolic molded blocks shall be fastened to the back-plate and shall support the main bus bars which shall be under the molded blocks. These molded blocks shall have openings in the front to provide access for the branch-circuit connecting straps so that all connectors are accessible from the front. The main bus bars shall be furnished with tapped holes on one-inch centers. Bus bars shall be 100- or 225-ampere capacity equipped with pressure-type solderless lugs. Interiors shall be symmetrical so that they can be mounted with lugs at top or bottom. A neutral block shall be furnished with a lug to match the phase lugs and a terminal for each of the branch circuits.

Each horizontal pair of single-pole breakers shall be connected to adjacent phase bars starting with the top pair of breakers connected to the left bus bar (sequence phased). Circuits shall be numbered top to bottom. With odd numbers on the left and even numbers on the right.

The panelboards shall be of "dead front" construction. Circuit breakers and other components shall be enclosed in code-gauge steel box with overall door. Fronts shall be painted with a medium-gray enamel.

The fronts shall be designed for either flush or surface mounting as indicated on the plans and shall be attached to the box by means of adjustable trim clamps. The doors shall be equipped with concealed hinges and semi-flush, disc-type tumbler lock with self-catching latch. All locks shall be keyed alike. Directory card and card holder shall be provided on the inside of each door.

Narrow-width or "column" panelboards, when designated, are to be constructed of code-gauge steel painted with a medium-gray enamel, and shall be 8½" wide for use in a 10" structural WF beam, or 7¼" wide for use in an 8" structural WF beam. Matching column extensions and pull boxes shall be provided as shown on the plans.

Branch circuit breakers shall be one-, two-, or three-pole "bolted" (or "plug-in") type as indicated on the plans.

Individual circuit breakers shall be of the quick-make, quick-break thermal-magnetic type. They shall be trip-free to prevent closing when a fault exists. The handle positions shall clearly indicate "ON", "OFF", and "TRIPPED" positions. Two-pole breakers shall be physically the same size as two single breakers, three pole the same size as three single-pole breakers, thereby permitting any combination of 1-, 2- or 3-pole breakers. Multi-pole breakers shall be "common-trip" so that a fault condition on any pole operates all other poles of the breaker simultaneously. Interrupting rating of the breakers shall be 5,000 (10,000) amperes symmetrical.

Circuit-breaker lighting and appliance panelboards shall be listed by the Underwriters' Laboratories and shall be of the NLAB (NPAB) type as manufactured by I-T-E Imperial Corporation or approved equal.