

260533S02 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS - Boxes

I Standard Outlet Boxes:

Outlet boxes for switches, receptacles and telephone and/or data circuits shall be 4 11/16 inches square by 2 1/8 inches deep with extension rings. Outlet boxes in masonry walls shall be masonry type. Do not install boxes back to back in walls. Provide a minimum 6 " separation. Position recessed outlet boxes accurately to allow for surface finish separation thickness. All outlet boxes shall be properly grounded. Outlet boxes for lighting fixture shall each be independently supported from building structure. Conduit support for outlet boxes will not be permitted.

All outlets shall be located on clear wall spaces, clear of all shelving, tackboards, etc. at the same height as the existing outlets except in special situations.

II Convenience Outlet Locations:

20 amp. Electrical outlets shall be located every 50' in all corridors, hallways, and parking structures. If corridor is less than 50', there should be at least one outlet.

20 amp. Electrical outlets shall be located on every landing in all stairwells to include top and bottom landings.

20 amp. GFCI outlets shall be located every 100' on outside of every building. These outlets should be able to accommodate use by heavy duty machinery.

III Junction Boxes:

Mark electrical circuits on junction box covers and install all covers.

IV Conduit:

Electrical metallic tubing should be used in all locations except for underground and in concrete on slab, where rigid thick-wall conduit should be used. Minimum conduit and tubing size shall be 3/4 inch.

Support riser conduit at each floor level with clamp hangers. All conduit shall be installed with runs parallel or perpendicular to walls. Bends and offsets shall be avoided where possible, but where necessary shall be made with an approved conduit-bending machine. Conduit and tubing shall be supported on approved types of ceiling trapeze or strap hangers and shall not hung from any other items such as ductwork or plumbing pipes.

The final sections of conduit connecting each motor shall be of the flexible Type "UA" neoprene covered. The length of flexible conduit for each application shall not exceed 18 inches.

All new conduits in finished areas shall be installed concealed in walls, floors or above ceilings. Solid walls, such as concrete, shall be channeled to accept new conduit and outlet boxes and then patched to match the existing surfaces as closely as possible. When wall covering is present, cut and peel back wall covering prior to channeling. After patching is completed, attach wall covering with adhesive and brush or roll down.

Identify each spare conduit at each termination. Provide nylon pull cords in all unused conduit for future installation of cabling or conductors.