

SECTION 26 05 39 - BOXES

PART I - GENERAL

1.1 QUALITY ASSURANCE

- A. All boxes shall meet the requirements of the National Electric Code.
- B. All boxes shall be Underwriter's Laboratories listed.

PART 2 - PRODUCTS

2.1 FITTINGS AND BOXES – GENERAL

- A. All boxes shall be stamped, one piece, galvanized steel.
- B. All boxes shall be of the proper size and shape for conduits and the number of conductors entering them.
- C. All boxes shall be installed so that device and/or cover plates will be tight and plumb with wall finish.
- D. All unused conduit openings shall be closed with Knock-Out closures.
- E. All boxes shall be secured to building structure.
- F. Back to back boxes installed through the wall are not acceptable.

2.2 OUTLET BOXES FOR SURFACE MOUNTED FIXTURES SHALL BE:

- A. 4" octagonal or square as required, a minimum of 1-1/2" deep, furnished with fixture studs where required. .
- B. Boxes which support fixtures shall be supported from the structure. They shall not be supported by the suspended ceiling grid.
- C. Deep concrete boxes for poured concrete ceiling construction.
- D. Installed with plaster rings on suspended ceilings.
- E. 4" octagonal or square for all exposed conduit work with fixture extension pan or deep fixture canopy to enclose the box.

2.3 OUTLET BOXES FOR RECESSED FIXTURES SHALL BE:

- A. 4" octagonal or square, a minimum of 1-1/2" deep, with blank cover.
- B. Installed in an accessible location.
- C. Installed with Flexible Metal Conduit from fixture outlet box to allow fixture to be dropped for servicing.

2.4 SWITCH AND RECEPTACLE BOXES SHALL BE:

- A. 4" square for up to 2 devices.
- B. Solid gang boxes for over 2 devices.
- C. Complete with tile ring where used in exposed tile, concrete block or paneled walls. Ring shall be sized so that face of ring is within 1/8" of surface of wall/tile.
- D. Complete with plaster ring where used in drywall and plastered walls. Ring shall be sized so that face of ring is within 1/8" of surface of wall.
- E. Installed with 1/2" raised galvanized device covers where used for exposed conduit work.

2.5 PULL BOXES AND JUNCTION BOXES SHALL BE:

- A. Installed in all runs of conduit having the equivalent of four 90 deg. bends.
- B. Installed in all runs of conduit more than 100 ft. in length.
- C. Sized per NEC 314.28 requirements
- D. #16 gauge galvanized steel up to 12" x 12" x 12" in size.
- E. #12 gauge galvanized steel over 12" x 12" x 12" in size.
- F. Entirely accessible.
- G. Complete with covers of same gauge as boxes and secured to boxes with screws.

PART 3 - EXECUTION

3.1 PROTECTION

- A. All conduits entering boxes shall be plugged or capped with approved raceway closures to prevent foreign material from entering conduits during construction. The use of newspaper stuffed into boxes will not be allowed.

END OF SECTION 26 05 39

This section of the *U of I Facilities Standards* establishes minimum requirements only.
It should not be used as a complete specification.