

SECTION 26 27 26 - WIRING DEVICES

PART I - GENERAL

1.1 QUALITY ASSURANCE

- A. All devices and materials shall be Underwriter's Laboratories, (UL) listed.
- B. All devices, switches, receptacles, and cover plates shall be specification grade.

PART 2 - PRODUCTS

2.1 WIRING DEVICES

- A. Switches: Switches shall be composition body, flush tumbler, quiet type, side wired, toggle handle. Switches rated for 120 or 277 volts, A.C., shall be rated 20 amperes.
- B. Receptacles: Receptacles shall be duplex, single, or as scheduled in Contract Documents, flush, straight blade, or grounding type. Duplex receptacles shall be NEMA-520R. Receptacles in damp or wet locations shall be Listed as "weatherproof". Receptacles shall be Listed as "tamperproof" in locations required by the NEC.
- C. Receptacle Color: The color of devices shall be brown or ivory. Emergency powered receptacles shall be red.
- D. Cover Plates, Finished Areas: Interior cover plates in finished offices, classrooms, and other general purpose occupancies shall be #430 brushed stainless steel. Interior cover plates in laboratories and other potentially corrosive occupancies shall be #302/304 brushed stainless steel.
- E. Cover Plates, Unfinished Areas: Interior cover plates in unfinished areas shall be stamped galvanized for sheet metal boxes and cast for cast boxes.
- F. Outdoor Cover Plates: All outdoor receptacle covers noted as "weatherproof" or installed outdoors shall remain rain-tight whether or not a plug and cord is inserted. Covers shall be sunlight resistant, pad lockable, polycarbonate construction.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. 6 Per Circuit: The number of 120 volt convenience receptacles shall not exceed 6 per circuit, with the number being less than 6 per circuit where heavy loading is expected, or when dedicated special purpose receptacles are necessary.
- B. Distance from Jamb: Lighting switches shall be located 6 inches horizontally from doorjamb.
- C. Ganged Switches: Switches shall be ganged when they are together at 1 location.
- D. GFI Protected: Receptacles in all toilet rooms, bathrooms, janitor's rooms, potentially wet or damp areas, or other locations required by the NEC shall be ground fault circuit interrupter protected.
- E. HP Rated: Switches controlling or disconnecting motor loads shall be horsepower (HP) rated.
- F. Switch Position: Install all wall switches with OFF position down.
- G. Grounding Pole Position: Install receptacles with grounding pole on bottom for vertically mounted receptacles, and on the right for horizontally mounted receptacles.

- H. Flush and Level: Cover plates shall be installed flush and level.
- I. Labels: Receptacle cover plates shall be labeled with the panelboard and circuit designation when requested by the department occupying the finished space. This requirement shall be defined during the Project's design phase.
- J. Surge Arrestor Receptacles: High quality, high sensitivity, surge arrestor receptacles shall be required in areas that serve personal computers or other sensitive electronic equipment when requested by the department occupying the finished space. This requirement shall be defined during the Project's design phase. All overhead projectors shall have surge arrestor receptacle.
- K. Receptacle Grounding:
 - 1. Receptacles shall have ground terminals bonded to the conduit system, except in the case of isolated ground receptacles. Isolated ground receptacles shall require a separately routed ground conductor.
 - 2. Receptacles shall have a green ground wire bonded to the device grounding terminal, the box it is located in, and bonded to the branch circuit panelboard ground bus.
- L. Do not install back-to-back in the same wall.
- M. Provide insulation behind boxes mounted in exterior walls

END OF SECTION **26** 27 26

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