

10 Things You Need To Know PLUG LOAD CONTROL



MORE STRINGENT ENERGY CODES ARE COMING

including plug load control—for commercial buildings. The NEC, ASHRAE, CA Title 24, NEMA, IECC and other governing bodies all have (or will have) standards in place across the country. This document is intended to clarify the various requirements and their implications for electrical installers and building owners.

- 1** At least 50% of all 125V, 15 & 20A receptacles must be automatically controlled per **ASHRAE Energy Efficiency for Buildings Standard 90.1: Section 8.4.2**. This requirement currently applies to receptacles in all private offices, conference rooms, break rooms, copy/print rooms, classrooms and individual workstations.
- 2** Per **CA Title 24 Part 6 Section 130.5 (d) Circuit Controls**, all 120V controllable receptacles must have a permanent marking to differentiate them from uncontrolled receptacles and be uniformly distributed throughout the space.
- 3** According to **Section 406.3 (E) of the 2014 National Electrical Code**,[®] according to Section 406.3 (E) of the 2020 National Electrical Code,[®] all non-locking type, 125-volt, 15 & 20A receptacle outlets that are automatically controlled shall be permanently marked with the universally recognized power symbol and marked with the word "controlled". This marking must be located on the receptacle face and in plain view after installation.
- 4** **IEC C405.11 Automatic Receptacle Control**
Applies to $\geq 50\%$ of receptacles in enclosed offices, conference rooms, copy/print rooms, breakrooms, classrooms, individual workstations and $\geq 25\%$ of feeders for modular furniture not on plans
 - Auto off by either:
 1. Time schedule, ≤ 2 hour override, control area $\leq 5,000\text{ft}^2$
 2. Occupancy sensor with 20 minute off delay
 3. Automated signal that shall auto off receptacles within 20 minutes of occupants leaving
 - Either top duplex receptacle controlled or controlled receptacle within 12 inches of uncontrolled receptacle
 - Controlled receptacles permanently marked in accordance with NFPA 70
 - Plug in controlled power strips and devices do not comply

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Key Exceptions

- Equipment continuously operating 24/7
- Where auto control would endanger safety or security
- In a modular office workstation a controlled outlet may be mounted up to 72 inches from an uncontrolled outlet of the workstation

- 5 P&S Plug Load Controllable Receptacles provide **the most efficient means for meeting all relevant code requirements** for marked receptacles. Labels and stickers do not.
- 6 The pad-printed universally recognized power symbol is intended to inform employees, guest users and contractors **which receptacles have constant power availability and which may have power at predetermined times.**
- 7 It is recommended that all installed plug load controllable receptacles be **compatible with standalone and systems-based solutions**, such as WattStopper's Digital Lighting Management (DLM) System.
- 8 Half and dual controllable receptacles are two code-compliant ways of **meeting the 50% controlled requirement.**
- 9 Be sure that any half or dual plug load controllable receptacle installed **meets UL 498 requirements and carries a Fed Spec WC-596 certification.**
- 10 Plug-in strips and other plug-in devices incorporating occupant sensors **cannot be used in place of code-approved plug load controllable receptacles.**

To learn more about the issue of plug load control and the new line of P&S code-approved Plug Load controllable receptacles, go to [legrand.us/plugload](https://www.legrand.us/plugload).



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