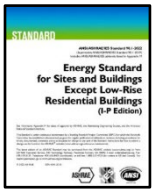
HAWORTH®

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Understanding ASHRAE 90.1 Energy Standard



This document is intended to be a quick guide to understanding the ASHRAE 90.1 2022 Energy Standard and how it applies to open office environments. Authorities are incorporating this Energy Standard into their local code. To view the latest adopted edition for your state go to: www.energycodes.gov/status-state-energy-code-adoption

Although the intent is to address how the Energy Standard applies to Open Office environments, the sections of the Energy Standard discussed here also apply to private offices, conference, print and break rooms, classrooms, and individual workstations. Therefore, for new construction a Building Management System (BMS) will be the best option to comply with the Energy Standard requirements. For Retrofit or Tenant Improvement projects, the alternative might be automatic time-switch control with manual override. In any situation, it is essential to collaborate with the General Contractor to ensure the building's BMS or alternate solution will accommodate the requirements of the open office furniture and show compliance with the plan check phase of the project.

Lighting Control – Section 9, this portion of the Energy Standard is meant to address general lighting controls. Furniture mounted task lighting must comply with these general lighting requirements unless each task light has an occupancy sensor control. Haworth offers occupancy sensors on the LED undershelf task lights and some free-standing task lights. Task lighting without occupancy controls must be considered in the general lighting but that portion should be addressed by the electrician of record.

Receptacle Control – Section 8.4.2 Automatic Receptacle Control requires at least 50% of receptacles in all private offices, conference rooms, rooms used primarily for printing and/or copying, break rooms, classrooms, and individual workstations to be automatically controlled. Please note that it is 50% of all (building & furniture) receptacles that need to be controlled, not 50% of circuits which allows use of Haworth's Power Base™ and DualCircuit™ product.

What kind of control is required? A device that automatically shuts off power to receptacles whether it is a time-switch with manual override, occupancy sensor, or a signal from a building system (Think BMS) could be the solution for receptacles. Typically, a whole circuit is controlled rather than each individual receptacle. Receptacles on controlled circuits must be identified with a symbol and the word "CONTROLLED."

Haworth offers the option for both duplex and triplex receptacles to be specified with the required controlled receptacle permanent markings.



DualCircuit



Power Base

The Energy Standard does not allow plug-in strips or other plug-in devices that utilize an occupant sensor to comply with the receptacle control requirement. The Energy Standard also does not require occupancy sensors in each workstation. The Energy Standard does not specify what appliances must be on the controlled circuit.