

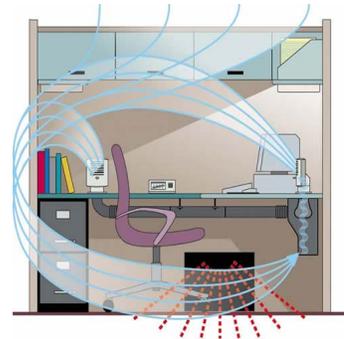


To promote occupants' productivity, comfort, and well-being by providing quality thermal comfort, the **Thermal Comfort credit** requirements to meet compliance addresses both thermal comfort *design* and thermal comfort *control*.

## Thermal comfort design

The HVAC systems and the building envelope must be designed to meet the requirements of **ASHRAE Standard 55–2010** OR the HVAC systems and the building envelope must meet the requirements of the applicable standard ISO 7730:2005 and CEN Standard EN 15251:2007.

**Thermal comfort control** requires individual controls be provided for at least 50% of individual occupant spaces. Provide group thermal comfort controls for all shared multi-occupant spaces, and for any individual occupant spaces without individual controls. Thermal comfort controls allow occupants, whether in individual spaces or shared multi-occupant spaces, to adjust either the air temperature, radiant temperature, air velocity, or humidity.



## Lighting

In general, there are two major lighting problems that arise in open-plan offices. **Glare** is often caused because the partitions (partial-height screens) do not block light coming from distant fixtures. Open-plan offices may also have non-uniform lighting because the system was designed for an empty room; the addition of partitions and modular furniture can block light, create shadows, and create bright spots due to different surface reflectance.

To promote occupants' productivity, comfort, and well-being by providing high-quality lighting, the **Interior Lighting credit** offers two options: *lighting control* and *lighting quality*.

## Lighting control

- Requires at least 90% of **individual occupant spaces** be provided with individual lighting controls that enable occupants to adjust the lighting to suit their individual tasks and preferences, with at least three lighting levels or scenes (on, off, mid-level). Midlevel is 30% to 70% of the maximum illumination level (not including daylight contributions).
- Requires all **shared multi-occupant spaces** meet all of the following requirements:
  - Have in place multizone control systems that enable occupants to adjust the lighting to meet group needs and preferences, with at least three lighting levels or scenes (on, off, midlevel).
  - Lighting for any presentation or projection wall must be separately controlled.
  - Switches or manual controls must be located in the same space as the controlled luminaires. A person operating the controls must have a direct line of sight to the controlled luminaires.

