

2019 California Building Energy Efficiency Standards

1.5 What's New for 2019

1.5.1 Envelope

- Reduced the site-built fenestration requirement from a 1,000 square feet (sq ft) to 200 sq ft (NA6).

1.5.2 Lighting

1. Changes to indoor and outdoor lighting power allowances with the lighting power allowances based on light-emitting diode (LED) lighting technologies (§140.6 and §140.7) Revisions to lighting power density (LPD) values in Table 140.6-B, 140.6-C, 140.6-D, 140.7-A, and 140.7-B.
2. Revision and streamlining luminaire classification and wattage requirements.
3. New lighting power adjustment for small aperture tunable white and dim-to-warm LED luminaires.
4. New power adjustment factors (PAFs) for daylighting devices including horizontal slats, light shelves and clerestory fenestrations. (§140.6(a)2L). New prescriptive measure and requirements of daylighting devices including horizontal slats, light shelves and clerestory fenestrations. (§140.3(d)).
5. Clarification and streamlining of manual area controls requirements, multi-level lighting controls requirements, automatic daylighting control requirements. Restrooms to comply with occupancy sensing control requirements. A new section for indoor lighting control interactions. (§130.1)
6. Revision and streamlining of outdoor lighting control requirements. (§130.2(c))
7. Revision and streamlining of alteration requirements, including the merging of three sections into a single "Altered Indoor Lighting Systems" section, the alignment of two reduced power options on controls, and trigger threshold of projects over 5000 sq ft. (§141.0(b)2I). Revised and consolidated Table 141.0-F.

1.5.3 Mechanical

1. Revision of the mandatory requirements for equipment efficiency in Tables 110.2-A through 110.2-K of the Energy Standards.
2. Interlock controls requirements when operable wall or roof openings are present (§140.4(n)).
3. Revisions to fan control system requirements in Table 140.4-D of the Energy Standards.
4. Energy Management Control System (EMCS) to comply with the thermostatic control requirements (§120.2(a)).
5. Changes to the requirements for dampers installed on outdoor air supply and exhaust equipment (§120.2(f)).

6. New section specifying direct digital controls (DDC) applications and qualifications (§120.2(j)).
7. Revisions to the requirements for space conditioning systems with DDC to the zone level (§120.2(k)).
8. New general requirements for pipe insulation (§120.3(a)).

1.5.4 Electrical

1. Healthcare facilities overseen by the California Office of Statewide Health Planning and Development (OSHPD) have to comply with the applicable requirements of Section 130.5 for electrical power distribution systems. There are exemptions added for healthcare facilities in order to avoid potentially conflicting requirements for healthcare facilities..

1.5.5 Covered Processes

1. New mandatory requirements for elevators, escalators and moving walkways (§120.6(f) and §120.6(g)).

1.5.6 Commissioning

1. Revisions to language and content to clarify §120.8.