

DOCKETED

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2019 Building Energy Efficiency Standards

SUBCHAPTER 9

Section 150.2

LOW-RISE RESIDENTIAL BUILDINGS - ADDITIONS AND ALTERATIONS TO EXISTING LOW-RISE RESIDENTIAL BUILDINGS

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Pre Rulemaking Workshop



§150.2(a)–ADDITION

§150.2(a)1Ai–Prescriptive approach

§150.2(a)1Biii–Prescriptive approach for Additions > 700 Square feet

- Modified language to require R-21 insulation in a 2x6 framing
 - Change was made to be consistent with the new high performance wall requirements which is based on R-21 cavity insulation



§150.2(a)–ADDITION

§150.2(a)1B–Additions less than 700 square feet

§150.2(a)1Bi–Roof & Ceiling Insulation

Modified language to require R-38 ceiling insulation in climate zones 1 and 11-16, or R-30 in climate zones 2-10

Exception: Enclosed rafter ceiling shall meet requirement § 150.0

§150.2(a)1Bii–Radiant Barrier

Inserted new language to clarify radiant barrier requirements. Require for CZ 2-15

§150.1(a)1Bv – QII

Inserted new language exempting additions less than 700 ft² from the quality insulation installation (QII) requirements



§150.2(b)–ALTERATIONS

§150.2(b)1C–Entirely New or Complete Replacement Space-Conditioning System

Added an exception to allow for the installation of a heat pump when installing a complete replacement of an existing gas system including duct work.

§150.2(b)1G–Altered Space-Conditioning System

Add a new section to allow for the installation of a heat pump when altering/replacing a gas furnace or other form of has heating.



§150.2(b)–ALTERATIONS

§150.2(b)1F–Altered Space-Conditioning System – Mechanical Cooling

- Added language to include new airflow targets for small duct high velocity systems
 - applicable when refrigerant charge is triggered by the alteration
 - Require minimum airflow rate of 250 cfm per ton



§150.2(b)–ALTERATIONS

§150.2(b)1H–Domestic Water-Heating Systems Alteration

- Add new prescription alteration option for electric water heaters above 55 gallons
 - Require additional photovoltaic system capacity of 1kW
- Add new exception for installation of heat pump water heater that meets NEEA Advanced Water Heater Specification Tier 3 or higher.
 - Will meet prescriptive alteration requirement for CZ 1 through 15



KEY WEB-LINK

2019 Title 24 Utility-Sponsored Stakeholder

<http://title24stakeholders.com/>

Building Energy Efficiency Program

<http://www.energy.ca.gov/title24/>

Comments to be submitted to

<https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=17-BSTD-01>



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Questions/Comments

