



CALIFORNIA ENERGY COMMISSION

2013 Building Energy Efficiency Standards Staff Workshop

Residential Mandatory Requirements for
Ceiling, Wall, Floor, Fenestration, and
Ducts

July 15, 2011



Changes to SECTION 150 – MANDATORY FEATURES AND DEVICES

- Minimum measure performance, regardless of the results of performance calculations.:



Changes to Insulation

Minimum Insulation R	2008	2013
Ceiling	19	30
Wall	13	15
Raised Floor	13	19
Ducts in unconditioned space	4.2	6



Compliance with Insulation R

- 1a. Install insulation with the required R or greater between all wood framing or
- 1b. Provide equivalent U-factor in all walls
2. Provide an area weighted U-factor for all walls less than or equal to 1b.



Maximum Fenestration U-factor

- 1. Fenestration products must have a U-factor less than or equal to 0.57 or
- 2. The weighted average U-factor of all fenestration products shall not exceed the U-factor that would result from installing 0.57 U-factor fenestration products throughout the conditioned space of the building.
 - **EXCEPTION:** Up to eight square feet of fenestration area.



2013 Standards Update

Send related comments by August 5, 2011 to:

Mazi Shirakh

California Energy Commission

1516 Ninth Street, Mail Stop 37

Sacramento, CA 95814

916-654-3839

mshirakh@energy.state.ca.us