

**REVISED EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
REGARDING THE CHANGES TO THE
2008 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11**

The Department of Housing and Community Development (HCD) proposes to revise the 2008 edition of the California Green Building Code (CGBC) as presented on the following pages. HCD further proposes to:

- Repeal amendments to the CGBC that are no longer necessary, repeal or amend building standards that are not addressed by a model code;
 - Relocate or codify existing adopted and necessary amendments to the CGBC, the action of which has no regulatory effect; adopt new necessary amendments to the CGBC proposed for adoption; and/or
 - Adopt new building standards that are not addressed by the CGBC code.
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LEGEND FOR EXPRESS TERMS:

1. **Existing California amendments or code language being modified:** All such language shown in normal Arial 9 point; modified language is underlined or shown in ~~strikeout~~.
 2. **Repealed text:** All language appears in ~~strikeout~~.
 3. **Amended, adopted or repealed language after public hearing (first 15-day comment period):** All such language appears in double underline or ~~double strikeout~~.
 4. **Amended, adopted or repealed language for second 15-day comment period:** All such language appears in double underline or ~~double strikethrough~~ and *Italics*.
 5. **Notation:** Authority and Reference citations are provided at the end of each section.
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1. Amend Section A4.1.6.5 and Table A4.1.6.5(2) follows:

A4.1.6.5 Cool roof. Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum aged Solar Reflectance Index (SRI) equal to or greater than the values specified in Table ~~A4.1.6.4 5(1)~~ for Tier 1 and Table ~~A4.1.6.5(2)~~ for Tier 2.

Exceptions:

1. Install roof constructions that have a thermal mass over the roof membrane with a weight of at least 25 lb/sf.
2. Install a combination of highly reflective and roof constructions with thermal mass over the roof membrane with a weight of at least 25 lb/sf.

Note: If SRI values are used to comply with this section they shall be calculated using the Solar Reflective Index (SRI) Calculation Worksheet (SRI-WS) developed by the California Energy Commission. The thermal emittance values used for the worksheet may be either the initial value or the three year aged value listed by the Cool Roof Rating Council (CRRC).

TABLE A4.1.6.5(1)
Tier 1

Roof Slope	Roof Weight	Climate Zone	Minimum 3-year Aged		
			Minimum 3-year Aged Solar Reflectance	Thermal Emittance	SRI
≤ 2 : 12	N.A	2-13&15	0.55	0.75	64
> 2 : 12	< 5 lbs./ft ²	2-10-15	0.20	0.75	16
	≥ 5 lbs./ft ²	1-16	0.15	0.75	10

TABLE A4.1.6.5 (2)
Tier 2

Roof Slope	Roof Weight	Climate Zone	Minimum 3-year Aged		
			Minimum 3-year Aged Solar Reflectance	Thermal Emittance	SRI
≤ 2 : 12	N/A	1-16 2,4,6-15	TBD 0.65	TBD 0.85	78
> 2 : 12	N/A	1-16 2,4,6-15	TBD 0.25	TBD 0.85	29 23

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17921, 17921.3, 17921.4, 17922, 18300, 18865, 18944.11 and 19990; and Government Code Sections 12955.1.

Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17995.5, 18630, 18640, 18690, 18873.1, 18873.2, 18873.4 and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.

Rationale for change:

HCD is proposing amendments to Section A4.1.6.5 based on comments received in order to correct a typographical error. In addition, HCD is proposing to modify the section by adding an explanatory note to ensure consistency with the SRI calculations used in Title 24, Part 6. Lastly, HCD is proposing to correct a mathematical error in Table A4.1.6.5(2) and revise the SRI value from 29 to 23. Twenty-three (23) is the correct SRI when the value is calculated using the CEC worksheet with a Solar Reflectance value of 0.25 and a Thermal Emittance value of 0.85.