



**COMMUNITY DEVELOPMENT DEPT.**

701 Laurel Street  
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3/16/11

**NON-RESIDENTIAL RE-ROOFING REQUIREMENT**  
**ER 2010 CALIFORNIA ENERGY CODE (CEC)**

When more than 50 % of the existing roof or more than 2000 sq-ft is replaced on a conditioned building, it shall comply with COOL ROOF requirement. 2010 CEC

Slope = 2:12 or less shall have one of the following conditions:

- Minimum aged solar reflectance 0.55 and thermal emittance 0.75
- Minimum SRI= 64

Slope > 2:12 and weight less than 5 psf. shall have one of the following conditions:

- Minimum aged solar reflectance of 0.20 and thermal emittance= 0.75
- Minimum SRI=16

Slope > 2:12 and weight of 5-psf or more shall have one of the following conditions:

- Minimum aged solar reflectance of 0.15 and thermal emittance of 0.75
- Minimum SRI=10

SRI: solar reflectance index. White SRI= 100 and black SRI=0

Roof product shall be tested and labeled by the Cool Roof Rating Council (CRRC)  
<http://www.coolroofs.org>

Note: Energy Star cool roof products are not acceptable under 2010 CEC.

Under Prescriptive Method as described above, submit ENV-1C and ENV-2C forms when applying for re-roof permit.

The Compliance Method shall be based on the following software program:

- 1) Energy Pro version 5.0 and 5.1