

ORDINANCE NO. 183149

An ordinance amending sections 99.01.101.3 and 99.04.106.5 of Article 9, Chapter IX of the Los Angeles Municipal Code to reflect local administrative changes and incorporate by reference a portion of the California Energy Code.

**THE PEOPLE OF THE CITY OF LOS ANGELES
DO ORDAIN AS FOLLOWS:**

Section 1. Subsection 99.01.101.3 of the Los Angeles Municipal Code is amended to read as follows:

99.01.101.3. Scope. The provisions of this code shall apply to the construction of every new building, every building alteration with a building permit valuation of \$200,000 or more, and every building addition, unless otherwise indicated in this code, throughout the City of Los Angeles.

EXCEPTION: Roof replacements of any value are subject to Subsection 99.04.106.5.

Sec. 2. Subsection 99.04.106.5 of the Los Angeles Municipal Code is amended to read as follows:

99.04.106.5. Cool Roof for Reduction of Heat Island Effect. Roofing material shall comply with both Subsections 99.04.106.5.1 and 99.04.106.5.2, or comply with Subsection 99.04.106.5.3 of this code.

EXCEPTIONS:

1. Roof repair as defined in Section 100.1(b) of the California Energy Code; or
2. Roof replacement when the roof area being replaced is equal to or less than 50% of the total roof area; or
3. Building-Integrated Photovoltaics (BIPV); or
4. Application for a building permit with full payment of all fees prior to October 1, 2014; or
5. Application for a building permit with full payment of all fees prior to January 1, 2015, for the replacement of an existing roof with asphalt roof shingles or asphalt composition roll roofing.

99.04.106.5.1. Solar Reflectance. Roofing material shall have a minimum 3-year aged solar reflectance equal to or greater than the values specified in Table 4.106.5 of

this code. Solar reflectance shall be determined by testing by an approved agency in accordance with ASTM C1549, ASTM E1918 or CRRC-1. Solar reflectance values shall be based on the aged reflectance value of the roofing product or the equation in Section A4.106.5.1 of this code if aged solar reflectance values are not available.

99.04.106.5.2. Thermal Emittance. Roofing materials shall have an emittance value equal to or greater than those specified in Table 4.106.5 of this code. Thermal emittance shall be determined by testing by an approved agency in accordance with ASTM C1371, ASTM E408 or CRRC-1.

99.04.106.5.3. Solar Reflectance Index. Roofing materials shall have an aged solar reflectance Index equal to or greater than those specified in Table 4.106.5 of this code. Solar Reflectance Index (SRI) shall be determined in accordance with ASTM E1980. Calculation of aged SRI shall be based on aged tested values of solar reflectance and on thermal emittance. Calculation of initial SRI shall be based on initial tested values of solar reflectance and on thermal emittance.

TABLE 4.106.5

ROOF SLOPE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SOLAR REFLECTANCE INDEX SRI
< 2:12	0.63	0.75	75
≥ 2:12	0.20	0.75	16

Sec. 3. The City Clerk shall certify to the passage of this ordinance and have it published in accordance with Council policy, either in a daily newspaper circulated in the City of Los Angeles or by posting for ten days in three public places in the City of Los Angeles: one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall; one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall East; and one copy on the bulletin board located at the Temple Street entrance to the Los Angeles County Hall of Records.

I hereby certify that this ordinance was passed by the Council of the City of Los Angeles, at its meeting of JUL 2 2014.

HOLLY L. WOLCOTT, Interim City Clerk

By 

Deputy

Approved JUL 07 2014



Mayor

Approved as to Form and Legality

MICHAEL N. FEUER, City Attorney

By 

KIM RODGERS WESTHOFF
Deputy City Attorney

Date June 30, 2014

File No. CF 14-0675

DECLARATION OF POSTING ORDINANCE

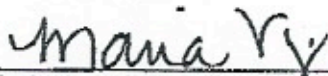
I, MARIA VIZCARRA, state as follows: I am, and was at all times hereinafter mentioned, a resident of the State of California, over the age of eighteen years, and a Deputy City Clerk of the City of Los Angeles, California.

Ordinance No. 183149 – Amending Sections 99.01.101.3 and 99.04.106.5 of Article 9, Chapter IX of the Los Angeles Municipal Code to reflect local administrative changes to and incorporate by reference a portion of the California Energy Code - a copy of which is hereto attached, was finally adopted by the Los Angeles City Council on July 2, 2014, and under the direction of said City Council and the City Clerk, pursuant to Section 251 of the Charter of the City of Los Angeles and Ordinance No. 172959, on July 11, 2014 I posted a true copy of said ordinance at each of the three public places located in the City of Los Angeles, California, as follows: 1) one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall; 2) one copy on the bulletin board located at the Main Street entrance to the Los Angeles City Hall East; 3) one copy on the bulletin board located at the Temple Street entrance to the Los Angeles County Hall of Records.

Copies of said ordinance were posted conspicuously beginning on July 11, 2014 and will be continuously posted for ten or more days.

I declare under penalty of perjury that the foregoing is true and correct.

Signed this 11th day of July, 2014 at Los Angeles, California.



Maria Vizcarra, Deputy City Clerk

Ordinance Effective Date: August 20, 2014
Rev. (2/21/06)

Council File No. 14-0675

LA CITY TOWNS AFFECTED BY NEW CODE

SUNLAND, TUJUNGA, SHADOW HILLS, LAKEVIEW TERRACE, LA TUNA CYN

SUN VALLEY, ARLETA, PACOIMA, SYLMAR

GRANADA HILLS, NORTHRIDGE, MISSION HILLS, PANORAMA CITY, NO.HILLS,

NO. HOLLYWOOD, VALLEY VILLAGE, TOLUCA LAKE, SHERMAN OAKS, STUDIO CITY

VAN NUYS, RESEDA, ENCINO, TARZANA, WOODLAND HILLS, WEST HILLS,

CANOGA PARK, CHATSWORTH, PORTER RANCH,

BRENTWOOD, PACIFIC PALISADES, BEL AIR, WESTWOOD, HOLLYWOOD,

EAGLE ROCK, HIGHLAND PARK, SILVERLAKE, ECHO PARK, BOYLE HEIGHTS,

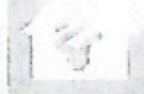
WESTLAKE, WILSHIRE, WEST LA, CENTRAL CITY LA, SOUTH LA,

BALDWIN HILLS, PALMS, MAR VISTA, VENICE, WESTCHESTER, PLAYA DEL REY,

WILMINGTON, SAN PEDRO..

Cool Roofs

What You Need to Know About LADWP Rebates and Building Code Requirements



What Is a Cool Roof?

A cool roof is a roofing product that reflects sunlight and absorbs less heat than traditional roofs. Cool roofs lower roof temperatures on hot sunny days and therefore keep homes cooler inside, saving energy by reducing the need for running air conditioning systems.

Although often light in color, cool roofs come in a wide variety of colors ranging from white to black and including blues, grays, greens, oranges, browns, and tans.

Cool roofs also are available in a variety of styles: shingle, shake, tile, membrane, and spray-on liquid coatings.

"Coolness" Factors

The "coolness" of a roof is determined by several properties of roofing materials and their combined effects on temperature. The primary factor is the material's ability to reflect the sun's energy back into the atmosphere ("solar reflectance"). A higher "solar reflectance" factor means the roof will stay cooler. Also the "solar reflectance" is measured by how long it retains its effectiveness ("aged solar reflectance"). If the product is new and the "aged solar reflectance" value is unavailable, it can be calculated using the following formula:

Formula:

$$3\text{-year Aged Solar Reflectance} = [0.2 + 0.7 \times (p_{\text{initial}} - 0.2)]$$

(where p_{initial} = Initial Solar Reflectance)

Example:

If the initial solar reflectance value is 0.8

$$\begin{aligned} 3\text{-yr Aged Solar Reflectance} &= [0.2 + 0.7 \times (p_{\text{initial}} - 0.2)] \\ &= [0.2 + 0.7 \times (0.8 - 0.2)] \\ &= 0.2 + 0.42 \\ &= 0.62 \end{aligned}$$

In addition to "solar reflectance" a secondary factor used is known as "thermal emittance," which measures the material's ability to release heat.

Building Code Requirements

The 2014 Los Angeles Green Building Code requires that roofing material used in residential buildings meet certain values for the "aged solar reflectance" and "thermal emittance":

	Min. 3-yr Aged Solar Reflectance	Min. Thermal Emittance
Low-slope $\leq 2:12$	0.63	0.75
Steep-slope $> 2:12$	0.20	0.75

Exceptions... Cool roof is NOT required for:

- ⓐ Roof repair; or
- ⓐ Roof replacement when the roof area being replaced is equal to or less than 50% of the total roof area; or
- ⓐ Where building-integrated photovoltaics (BIPV) are installed

LADWP Rebates

LADWP's cool roof rebates are available to single-family and multi-family residential customers, and are part of the Consumer Rebate Program.

Rebate Levels

- ⓐ The base rebate for qualifying roofs is \$0.20 per square foot
- ⓐ The enhanced rebate of \$0.30 per square foot

Roofing products must be tested and labeled by the Cool Roof Rating Council. A listing of rated products using the CRRC Rated Products Directory can be found at www.coolroofs.org/products/search.php

Qualifying Cool Roofs

To qualify as a cool roof under the LADWP Consumer Rebate Program, the roofing material must:

- ⓐ Have a Cool Roof Rating Council (CRRC) rating for reflectance and thermal emittance that meets the cool roof requirements in the 2014 Los Angeles Green Building Code, or
- ⓐ Have CRRC 3-year SRI value ≥ 78 for low-slope ($\leq 2:12$) or ≥ 20 for steep-slope ($> 2:12$) roofs
- ⓐ For the enhanced rebate, have CRRC 3-year SRI value ≥ 85 for low-slope ($\leq 2:12$) or ≥ 35 for steep-slope ($> 2:12$) roofs

How to Apply

LADWP advises customers to confirm rebate eligibility before making your purchase. Complete the Consumer Rebate Program application (available online at www.ladwp.com/rebatesandprograms) after purchasing and installing the product. All applications must be postmarked within 12 months of the purchase date. For your convenience, you may submit your application online or by mail.

Funds are available on a first-come, first-served basis. LADWP reserves the right to inspect and verify the installation of your products prior to releasing your rebate check. Rebates will be processed within six months of application submittal.

Documentation

Please include the following documentation with your application:

- ⓐ Original Proof of Purchase or Original Home Improvement Contract Invoice (with manufacturer, product make and model number)
- ⓐ A copy of your LADWP bill (Page 1)
- ⓐ A copy of the roofing permit

For More Information about LADWP Rebates:

Visit: www.ladwp.com/rebatesandprograms (click on "Building Products") or Call: 1 800 DIAL DWP

For More Information about the 2014 Green Building Requirements:

Visit: www.ladbs.org or Call: LADBS at 3-1-1

Please note: Funding is limited and rebates are not guaranteed. This program shall at all times be subject to change or termination without notice.