



**Los Angeles County Department of Public Works
Development Services
Building and Safety Division**

**COOL ROOFS
TECHNICAL REQUIREMENTS**

COOL ROOF – TECHNICAL REQUIREMENTS

APPLICANT INSTRUCTIONS

- Effective on May 6, 2019, roofing material must comply with the requirements shown below.
- Please provide the following information for any project involving roofing materials:
 - An approved 3rd party listing specific to the roofing product being installed.
 - A current product identification number from the Cool Roof Rating Council (CRRC). The listing must indicate the minimum values listed in the tables below.

Note: The Solar Reflectance Index (SRI) value may be used as an alternative to compliance with the 3-year aged solar reflectance and thermal emittance values.

- During a roof inspection, roofing product shall be on site for inspector to verify compliance with requirements below.

*Numbers refer to Tables in the 2017 County of Los Angeles Green Building Standards Code.

REQUIREMENTS

Table 4.106.6(1) Low Rise Residential

ROOF SLOPE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SRI
≤ 2:12 Flat Roof	≥ 0.65	≥ 0.85	≥ 78
>2:12 Shingles	≥ 0.25	≥ 0.85	≥ 20

Table 4.106.6(2) High Rise Residential Buildings, Hotels and Motels

ROOF SLOPE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SRI
≤ 2:12 Flat Roof	≥ 0.65	≥ 0.75	≥ 78
>2:12 Shingles	≥ 0.25	≥ 0.75	≥ 20

Table 5.106.11 Non-Residential

ROOF SLOPE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SRI
≤ 2:12 Flat Roof	≥ 0.68	≥ 0.85	≥ 82
>2:12 Shingles	≥ 0.28	≥ 0.85	≥ 27

EXCEPTIONS

1. Roof repair;
2. Roof replacement when the roof area being replaced is equal to or less than 50% of the total roof area;
3. Installation of building-integrated photovoltaics (BIPV);
4. R Occupancies Only: Installation of steep sloped roof (>2:12) in climate zone 16 on other than a low-rise multifamily building;
5. Additions resulting in less than 500 square feet of added roof area or less than 50% of the total roof area, whichever is greater;
6. Roof constructions that have a thermal mass over the roof membrane including areas of vegetated (green) roofs, weighing at least 25 pounds per square foot.