

# California Title 24, Cool Roofs and You

*If you own or manage a non-residential building in California, you should be aware of changes to Title 24 – the state’s building energy-efficiency standards – that will require “cool roofing” for most commercial roof replacement, recoating or recovering applications.*

## Why the change?

Title 24 changes are intended to reduce power consumption, especially during peak daytime hours. One way to do this is by minimizing the effect of urban “heat islands” – areas in cities where temperatures are 3-8 degrees higher than in outlying areas. One cause of urban heat islands is dark roofs that absorb and retain the sun’s heat. As rooftop temperatures rise, air conditioners have to work harder to keep buildings cool, so energy use goes up. And as energy demand increases, the cost of energy rises, and power shortages can result.

## What is a “Cool Roof”?

A cool roof is a white roofing material that reflects the sun’s rays and reduces the building temperature. White roofing is one of the fastest, easiest, least expensive, and most effective ways to reduce energy consumption in buildings with low-sloped or flat roofs. California Title 24 implements strict heat-reflecting requirements for cool roofs, and the roofing products used must be certified by the Cool Roof Rating Council (CRRC) and meet these minimum guidelines:

- 70 percent reflectance (amount of sun’s energy reflected by the surface)
- 75 percent emittance (amount of solar heat released from the surface)

## Your Best Solution: The Duro-Last® Cool Zone® roofing system

With 88 percent reflectance and 87 percent emittance, the Duro-Last Cool Zone roofing system clearly exceeds California Title 24 requirements. It’s the only single-ply membrane rated by the EPA ENERGY STAR® Roof Products Program that has retained reflectivity of greater than 85 percent after three years of weathering. Best of all, you can enjoy significant savings over the life-cycle of the roof – lower energy bills, lower maintenance costs, and longer roof life expectancy.

The Duro-Last Cool Zone roofing system offers building owners and facilities managers other big benefits too:

- Precision-designed and manufactured for each roof for a custom fit.
- Quick, quiet, and non-disruptive installation with no hazardous materials, noxious fumes, hot tar, or mess.
- Long-term durability that is leak-proof and virtually maintenance-free.
- Resistance to fire, chemicals, high winds, and temperature extremes.
- Guaranteed quality – backed by the industry’s best warranties.

Visit us at [www.duro-last.com](http://www.duro-last.com) today to find out how the Duro-Last Cool Zone roofing system can help you meet California Title 24 requirements and significantly reduce your energy costs.

## California Title 24 Does it Apply to You?

Effective October 1, 2005, Title 24 modifications will require “cool roofing” for most commercial roofing applications:

- Non-residential buildings
- Low-sloped roofs (i.e., less than 2:12)
- Roof replacement or repair requiring a permit
- More than 2,000 square feet of the roof over conditioned space is being replaced, recovered, or recoated

The Duro-Last Cool Zone roofing system is the “Proven Performer”® that can help you achieve your goals:

- Certified Title 24 compliance
- A custom prefabricated roofing system with minimal on-site seaming
- Quiet, safe, and speedy installation
- A durable, long-lasting roof that is virtually maintenance-free
- Lower energy costs year after year
- Exceptional long-term value for your investment
- The best warranties in the business

Find out more about what a precision-fabricated Duro-Last Cool Zone roofing system can offer you. Call **800-248-0280** or visit our web site to request our free brochure: **How to Make Your Roofing Investment Pay Off.**

For more information about California Title 24, visit [www.energy.ca.gov/title24](http://www.energy.ca.gov/title24)



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