



CITY OF RIALTO
DEVELOPMENT SERVICES DEPARTMENT
BUILDING DIVISION

California Title 24 Energy Requirements for Residential Re-roofing



The New Title 24 Energy Standards are in effect as of January 1, 2010. These new standards now apply to residential roofs. The new standards can have an effect on the cost of your roofing replacement and/or repair.

The new “Cool Roof” requirements include increased solar reflectance and a higher minimum thermal emittance. These reflective requirements restrict the amount of heat that the roofs will absorb, and therefore lowering peak-time energy usage. The goal of the new standards is to reduce energy demand, particularly mid-day usage of air-conditioning during the warmer months. Energy consumption on those days typically sees a 30% increase.

The new roof standards requiring a ‘cool’ roof have been put in place in an effort to reach energy reduction goals. A cool roof absorbs less heat, keeps buildings cooler, and cuts down on the need for air conditioning, sometimes up to 40%. When more than 50% of the exterior surface of the roof or more than 1,000 sq. ft. of a roof is replaced, whichever is less, the roofing product must meet the new California Energy Requirements for Cool Roofs or meet the following alternatives:

Buildings with a minimum R-30 ceiling insulation;

Buildings with a compliant radiant barrier in the attic;

Buildings that have no conditioned air or buildings with existing ducts in the attic that are insulated;

Buildings with a minimum R-3 roof deck insulation above a vented attic;

Buildings with roof slopes of less than 2:12.