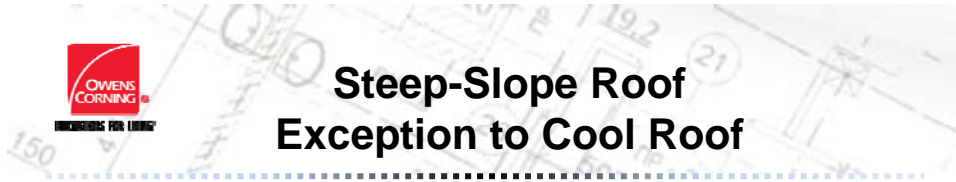


**Title 24 exemptions for 2014, Based on 2013 Code**

**Only one of the exemptions is required to meet Title 24 if you are not using a cool rated Shingle**

**If a Cool rated shingle (listed below) is applied than you do not need to add any exceptions.**



**Additions/Alterations to Existing Buildings Low-Rise Residential**

- At least R-38 ceiling insulation (attic floor), or
- One-inch (1 in) air space between the underside of the roofing product and top of the deck, or
- Above the roof deck insulation equal to or greater than R-4 in climate zones 10-15, or
- Roofing product with a profile ratio of rise to width of 1 to 5 for 50% or greater of the width of the roofing product, or
- Existing ducts in the attic sealed & insulated per Section 150.1(c)9 or
- Building with no ducts in the attic, or
- Radiant barrier in the attic meets the requirements and the installation criteria of the 2013 California Energy Code

*NOTE: In climate zones 10-15 you will satisfy the prescriptive requirements of the Code in re-roof application if you provide Cool Roof shingle product or meet one of the above exceptions deemed equivalent.*

Source: California Building Standards Commission, 2013. "2013 California Energy Code: California Code of Regulations, Title 24, Part 6", Section 150.2(b)1H

<b>Radiative Properties for Owens Corning Roofing and Asphalt, LLC Roofing Products Listed in CRRC's Rated Product Directory.</b>							
Product Data (from CRRC Database)	CRRC PRODUCT ID.	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)	
		Initial	Aged (3-year)	Initial	Aged (3-year)	Initial	Aged (3-year)
Supreme® Shasta White	0890-0001	0.27	0.29	0.89	0.92	28	31
Oakridge® Shasta White	0890-0002	0.26	0.28	0.90	0.91	27	30
Duration® Premium Cool Shingle Sage	0890-0003	0.28	0.29	0.90	0.88	29	30
Duration® Premium Cool Shingle Harbor Fog*	0890-0004	0.27	0.30	0.89	0.90	28	32
Duration® Premium Cool Shingle Frosted Oak	0890-0005	0.28	0.28	0.89	0.91	29	30
Duration® Premium Cool Shingle Sunrise	0890-0006	0.26	0.28	0.89	0.91	26	30
TruDefinition® Duration® Shasta White	0890-0008	0.25	0.28	0.94	0.91	27	30

Notes: (\*) Product qualifies for credits under the Sustainable Sites - Heat Island Reduction category in new LEED Version 4 of Building Design and Construction Rating System.

