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Community Development and Sustainability Department

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RESIDENTIAL COOL ROOF REQUIREMENTS

Address			Permit #						
nder the provisions of the 2013 California Energy Code, re-roof projects are required to comply with pool roof requirements when more than 50% of a roof is replaced.									
	Slope Ro Install c		greater) Check a terial that is listed	<i>pplicable box below</i> I in the Cool Roof Ra	: ating Council (CRRC) Rated Product				
	(0.20 aged solar reflectance, 0.75 thermal emittance, or an SRI of 16). http://coolroofs.org/products/results Air-space of 1.0 inch (25 mm) is provided between the top of the roof deck to the bottom of the roofing product. The installed roofing product has a profile ratio of rise to width of 1 to 5 for 50 percent or greater of the width of the roofing product (high profile "S" tile). High Profile Tile – Tiles having a rise to width ratio greater than 1:5 (measured in installed condition)								
	H	Concrete		Clay Tile	Condition)				
	Existing ducts in the attic are insulated to R6 and sealed in accordance with the Energy Code requirements. Buildings with at least R-38 ceiling insulation. Buildings with a radiant barrier in the attic. NOTE: Radiant barrier must be installed in compliance with the manufacturer's installation instructions. When installed as roof sheathing it is not allowable to install radiant barrier directly over skipped sheathing. The skipped sheathing must be removed or a 1x4 shall be installed over each truss/rafter to provide a 3/4" air space between the radiant barrier and the skipped sheathing.								
	radiant barrier and the skipped sheathing. Buildings that have no ducts in the attic. R-4 or greater insulation above the roof deck. Roof area covered by building integrated photovoltaic panels and solar thermal panels.								
Che	eck applic	Roof (less than 2:12 table box below:				D : .			
	Install compliant cool roof material that is listed in the Cool Roof Rating Council (CRRC) Rated Product Directory (0.63 aged solar reflectance, 0.75 thermal emittance, or an SRI of 75). http://coolroofs.org/products/results								
	No ducts in the attic The aged solar reflectance can be met by using insulation at the roof deck specified in TABLE 150.2-A.								
		TABLE 150 Aged Solar Reflectance	.2-A AGED SOLAR Roof Deck Insulation R-value	REFLECTANCE INSU Aged Solar Reflectance	ALATION TRADE OFF TABLE Roof Deck Insulation R-value				

Aged Solar Reflectance	Roof Deck Insulation R-value	Aged Solar Reflectance	Roof Deck Insulation R-value
0.62-0.60	2	0.44-0.40	12
0.59-0.55	4	0.39-0.35	16
0.54-0.50	6	0.34-0.30	20
0.49-0.45	8	0.29-0.25	24

Reviewed & Approved By	Date
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