

City of Palos Verdes Estates

Roof Plan Check Information

Property Address: _____

Owner Name: _____

Owner Phone # _____

Contractor License # _____

MUST HAVE WORKER'S COMP. TO OBTAIN A ROOF PERMIT

ICC# /FOR "S" TILE SEE ATTACHED BOOSTER DETAIL

Square Footage of Roof Area @ \$2.75 **Valuation:** _____

Slope of Roof _____

New Roof Weight _____

P.V.H.A. Approval Complete () *must have for "S" Tile to verify knowledge of booster tile eave detail*

Hot Mop Inspection Required ()

Structural Upgrade Required ()

Sheathing Inspection Required () Inspector to verify ½" OSB or CDX

Final Inspection Required (X) SELF CERTIFICATION OF SMOKE/CARBON MONOXIDE DETECTORS

I _____ **will insure that items requiring**

inspections will not be covered without inspection and approval by the City

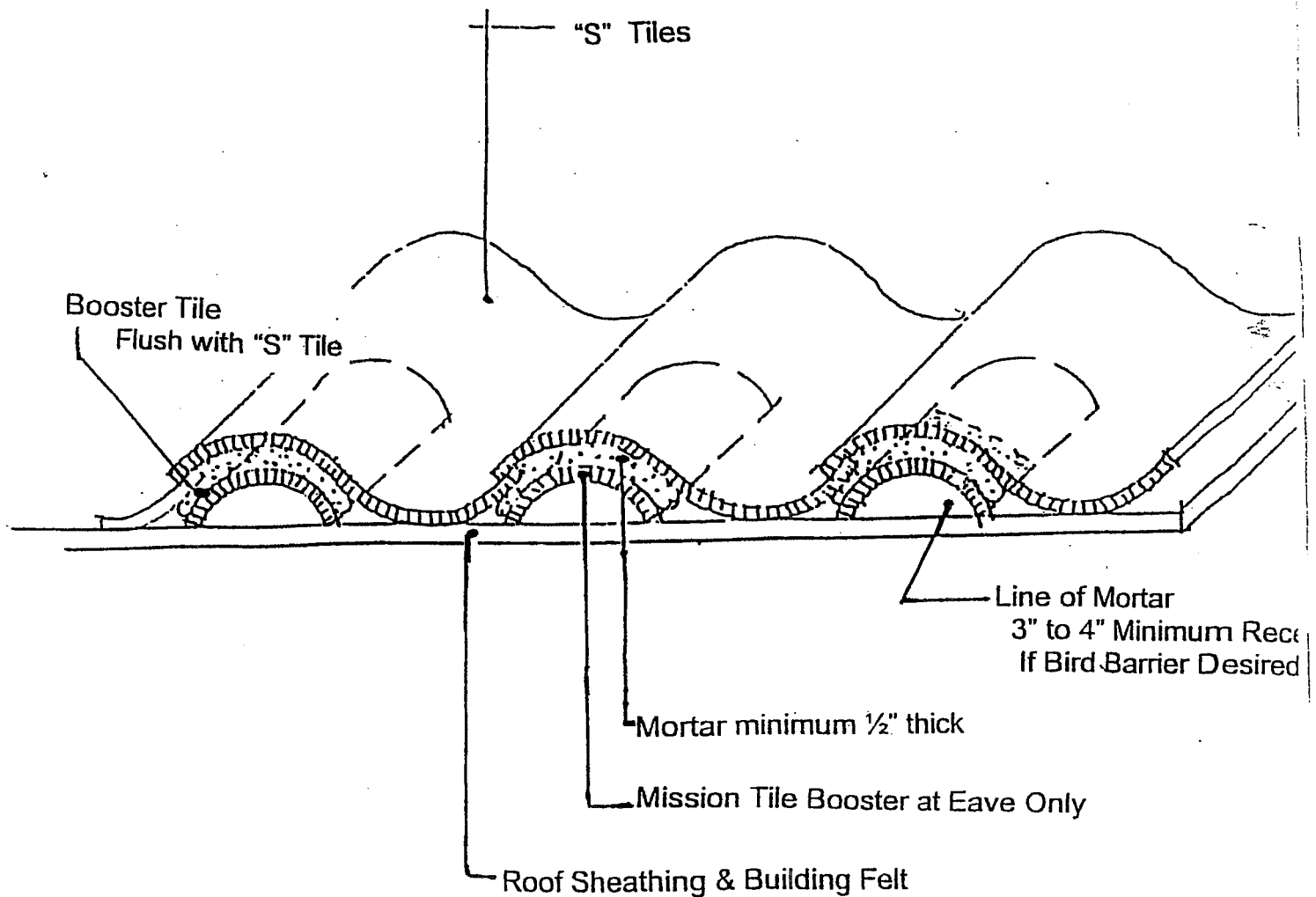
Inspector. In addition, I understand that if a final inspection is not obtained

within 18 months, this permit will expire.

BOOSTER TILE EAVE DETAIL

(For Use With "S" Tile Roofs)

- * Bird barriers shall be mortar, set back 3" to 4" from edge to tile to form shadow line. **NO MANUFACTURED CLAY BIRD STOPS**
- * Two piece mission tile will be required with cover tiles set in mortar for Spanish Colonial and Mediterranean structures.



PLEASE NOTE: MORTAR MUST BE NATURAL, NO COLOR

▪CITY OF PALOS VERDES ESTATES▪
SELF CERTIFICATION PROGRAM FOR SMOKE AND CARBON MONOXIDE
ALARMS

Project Address: _____

Permit Number: _____

Property Owner: _____

Contractor: _____

I, the undersigned, hereby certify that I am the owner and occupant of the above referenced property or the acting agent for the owner/occupant. I further certify that smoke alarms and carbon monoxide alarms are present and functional in all the following locations (Note: All boxes below must be checked; retrofitted detectors may be battery operated.)

- Smoke Alarms and Carbon Monoxide Alarm shall be located: On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms and hallway.
- Smoke Alarms: In each room used for sleeping purposes.
- Smoke Alarm and Carbon Monoxide Alarm: In each story, including any habitable basement. (Note: In dwellings or dwelling with split levels and without an intervening door between the adjacent levels, a smoke alarm and a carbon monoxide detector installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.)

Signature: _____ Date: _____

California Residential Code (CRC) Section R314.1, CRC R315.2 states in part that existing dwellings be " ... retrofitted with smoke detectors and carbon monoxide detectors when a building permit is issued for, worked on or in a building that is valued at \$1,000 or more." CRC Section R314.3, CRC Section R315.3 defines required locations as indicated above.

NOTE: This Certification is only used when normal access to the interior of the dwelling by the City of Palos Verdes Estates Building Inspector is not achieved during the course of project construction. It is normally used for projects such as re-roofing, re-siding, patio covers, swimming pools and the like.

Residential Alterations

Project Name:	Climate Zone #	# of Stories
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ROOFING PRODUCTS (COOL ROOFS) §151(f)12

When the area of exterior roof surface to be replaced exceeds more than 50% of the existing roof area, or more than 1,000 ft², whichever is less, the new roofing area must meet the roofing product "Cool Roof" requirements of §152(b)1Hi, 152(b)1Hii, or 152(b)1Hiii.

Check applicable alternative or exception below if the roof alteration is exempt from the roofing product "Cool Roof" requirements. Note: If any one of the alternatives or exception below is checked, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §118(i) are not applicable. Do not fill table below.

- Cool Roofs Not Required in Climate Zones 1-12, 14, and 16 with a Low Sloped. Less or 2:12 pitch.
- Cool Roofs Not Required in Climate Zones 1 through 9 and 16 with a Steep-Sloped Roofs (pitch greater than 2:12) and product unit weight less than 5lb/ft².

Alternatives to §152(b)1Hi and §152(b)Hii, Steep-slope roof (pitch > 2:12)

- Insulation with a thermal resistance of at least 0.85 hr-ft²-°F/Btu or at least a 3/4 inch air-space is added to the roof deck over an attic; or
- Existing ducts in the attic are insulated and sealed according to §151(f)10; or
- In climate zones 10, 12 and 13, with 1 ft² of free ventilation area of attic ventilation for every 150 ft² of attic floor area, and where at least 30 percent of the free ventilation area is within 2 feet vertical distance of the roof ridge; or
- Building has at least R-30 ceiling insulation; or
- Building has radiant barrier in the attic meeting the requirements of §151(f)2; or
- Building has no ducts in the attic; or
- In climate zones 10, 11, 13 and 14, R-3 or greater roof deck insulation above vented attic.

Exception to §152(b)1Hiii, Low-slope roof (pitch ≤ 2:12)

- Building has no ducts in the attic.

Other Exceptions

- Roofing area covered by building integrated; photovoltaic panels and solar thermal panels are exempt from the below Cool Roof criteria.
- Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft² is exempt from the below Cool Roof criteria.

Note: If no CRRC-1 label is available, this compliance method cannot be used, use the Performance Approach to show compliance, otherwise, Check the applicable box below if Exempt from the Roofing Products "Cool Roof" Requirement:

CRRC Product ID Number ¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ^{3,4}		Thermal Emittance	SRI ⁵
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²					
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2 + 0.7(p_{initial} - 0.2))$ to obtain a calculated aged value. Where p is the Initial Solar Reflectance.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. Calculate the SRI value by using the SRI- Worksheet at <http://www.energy.ca.gov/title24/> and enter the resulting value in the SRI Column above and attach a copy of the SRI- Worksheet to the CF-1R.

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

<input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating	<input type="checkbox"/> Cement-Based Roof Coating	<input type="checkbox"/> Other _____
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