	<b>CITY OF AGOURA HILLS</b> <b>BUILDING &amp; SAFETY DIVISION</b> <b>30001 LADYFACE COURT AGOURA HILLS, CA 91301</b>	<b>Email:</b> <b>Permits@AgouraHillsCity.org</b> <b>PHONE: (818) 597-7334</b> <b>www.AgouraHillsCity.org</b>	
<b>ROOF RECOVERING OR REPLACEMENT GUIDELINES</b>		<b>IH-03</b>	<b>1-25-23</b>

**GENERAL REQUIREMENTS**

All roof recovering or replacement requires a permit from the Building and Safety Division to ensure compliance with Section 15 of the 2022 California Building Code (CBC), Chapter 9 of the 2022 California Residential Code (CRC), 2022 California Energy Code requirements, City of Agoura Hills amendments, and the manufacturer’s installation instructions. Permits may be obtained by one of the following methods:

- A licensed and insured C-39 contractor.
- A residential property owner (Owner/Builder) with the proper verification.
- A licensed and insured B contractor (only when the roof is in conjunction with the required multiple trade requirements of the California State License Board).

Building Permits: No roof recovering or replacement work shall start without first obtaining a reroof building permit.

- Roof repairs of less than 5% of the roof area or 64 square feet (whichever is less) can be considered as maintenance and may be done without a permit provided the damaged portion is replaced to its previous undamaged condition.
- If the work is more than 5% --but less than 50% -- of the roof, a permit is required and the roof recovering or replacement work portion shall meet current code while the remaining roof may stay in its current condition.
- If the work is over 50% of the roof, a permit is required and the entire roof must meet current code.

Fire-Protection: New roof coverings shall comply with the following:

- All roof coverings and/or roof assemblies shall have a minimum Class “A” Rating. (R902.1.1)
- Where the roofing profile has an airspace under the roof covering, installed over a combustible deck, a 72 lb cap sheet complying with ASTM D3909 Standard, shall be installed over the roof deck. Bird stops shall be used to prevent debris at the eave. Hip and ridge caps shall be mudded in to prevent intrusion of fire or embers (705A.2)
- Valley flashing shall be not less than 0.019-inch No. 26 gage galvanized sheet corrosion-resistant metal installed over not less than one layer of minimum 72 pound mineral-surfaced non-perforated cap sheet complying with ASTM D3909, at least 36-inch-wide running the full length of the valley. (705A.3)
- Wood shakes and wood shingles (fire treated or untreated) are **not allowed** in the City of Agoura Hills.


Roof Recovering: A roof re-cover shall not be permitted where any of the following conditions occur: (R908.3.1.1)

- Where the existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
- Where the existing roof covering is slate, clay, cement or asbestos-cement tile.
- Where the existing roof has two or more applications of any type of roof covering.

Reinstallation of Materials: Existing slate, clay, or cement tile will be permitted for reinstallation, except that damaged, cracked or broken slate or tile shall not be reinstalled. Existing vent flashing, metal edgings, drain outlets, collars, and metal counter-flashings shall be replaced where rusted, damaged, or deteriorated. Aggregate surfacing materials shall not be reinstalled. (CRC section 908.5)

Structural Issues: A licensed engineer or architect may be required to prepare structural calculations and/or plans, when the following condition occurs:

- When the weight of the new roof covering and the existing roof covering (when not removed) or the new roof covering itself (when the existing roof is removed), exceeds 6 pounds per square foot.

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**EXISTING BOARD DECKING AND PANEL SHEATHING INSTALLATION**

Where solid, diagonal, or spaced board decking is encountered, new wood structural panel sheathing shall be installed over the existing board decking or the existing board decking shall be removed without causing structural damage. If the existing board decking is removed, new wood structural panel sheathing is added over the existing board decking, it shall be included in the total weight of the roof.

- Panel sheathing shall be 5/8" minimum thickness CDX grade plywood or exterior grade OSB.
- For panel sheathing over existing 1x board decking, use 10d at 6"/6"/12" on center. For panel sheathing over existing 2x board decking, use 16d at 6"/6"/12" on center. See "Detail A" below.
- Lay panel sheathing perpendicular to rafter supports. For edges parallel to the board decking, a
- 1 ½ minimum lap onto the board decking shall be maintained. Minimum panel sheathing shall not be less than 2 feet in width and must span over minimum of three joist spaces.

**ROOFING MATERIAL**

Composition shingles: New composition shingles may be installed directly on existing roof coverings if the existing is in reasonably sound condition. The existing roof coverings may **not** be wood shakes, wood shingles, slate, clay, or asbestos cement tiles. A maximum of two layers of composition shingles may be allowed on a roof. Curled edges need to be removed.

Wood Shingles/Wood shakes: Wood shingles and wood shakes (fire treated or untreated) are **not permitted** for use in the City of Agoura Hills.

Tile Roofing: The roofing shall be installed directly on wood structural panel sheathing. If the weight of the new tile is more than 6 pounds per square foot or heavier than the existing tile, a licensed engineer or architect may be required to prepare structural calculations and/or plans. If board decking is encountered, panel sheathing must be placed over the board decking or the existing board decking removed and replaced with panel sheathing. When panel sheathing is installed over board decking, the weight of the panel sheathing must be included in the maximum weight of 6 pounds per square foot.

Cap Sheet: New cap sheets may be installed directly on existing residential roof coverings if the existing is in reasonably sound condition. The existing residential roof coverings may not be wood shakes, wood shingles, slate, clay, or asbestos cement tiles. A maximum of two layers of cap sheets may be allowed on a residential roof. A maximum of one layer of cap sheets may be installed on a commercial roof in addition to scheduling a pre-inspection.

**INSPECTIONS**

Roof Sheathing Inspection: A roof sheathing inspection is required for all roof recovering and replacement work upon removal of all existing layers of roof coverings or, where the existing roof covering is to be recovered, prior to the installation of the new felt, paper, or roofing material, to verify that the roof structure is not damaged or dry rotted. Prior to such inspections, any damaged areas of the roof deck or structural framing members shall be repaired and/or replaced with new material.

Final Inspection: Approval shall be obtained when roof recovering or replacement work is complete. At this time the inspector will verify the flashing and proper lap.

- A ladder shall be onsite at the time of inspection. The ladder shall have a minimum 300 lb. Duty Rating (Type IA) and be long enough to extend two feet above the roofline.



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**ROOF RECOVERING OR REPLACEMENT GUIDELINES**

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- The contractor/homeowner is responsible for extending all plumbing vents, chimney, and mechanical vents as required. (Section 906.0-906.7 California Plumbing Code and Sections 802.2 – 802.6 California Mechanical Code).
- The contractor/homeowner is responsible for ensuring the proper amount of attic ventilation is installed/maintained per CRC Section R806.

**ENERGY REQUIREMENTS**

<b>Agoura Hills ( Climate Zone 9)</b>			
<b>Residential (CEnC 150.2(b)11)</b>	<b>Steep-sloped roof (<math>\geq</math> 2:12)</b>	<b>Low-sloped roof (&lt;2:12)</b>	
Minimum aged solar reflectance	0.20	0.63	Cont. Insulation Value R-14 Or U-factor 0.039
AND Minimum thermal emittance	0.75	0.75	
Or Minimum SRI	16	75	

<b>Agoura Hills ( Climate Zone 9)</b>			
<b>Non-Residential (CEnC 141(b)2B)</b>	<b>Steep-sloped roof (<math>\geq</math> 2:12)</b>	<b>Low-sloped roof (&lt;2:12)</b>	
Minimum aged solar reflectance	0.25	0.63	Cont. Insulation Value R-23 Or U-factor 0.037 w/ R10 above deck
AND Minimum thermal emittance	0.80	0.75	
OR Minimum SRI	23	75	

<b>Agoura Hills ( Climate Zone 9)</b>			
<b>Hotel/Motel (CEnC 141(b)2B)</b>	<b>Steep-sloped roof (<math>\geq</math> 2:12)</b>	<b>Low-sloped roof (&lt;2:12)</b>	
Minimum aged solar reflectance	0.20	0.55	Cont. Insulation Value R-23 Or U-factor 0.037 w/ R10 above deck
AND Minimum thermal emittance	0.75	0.75	
OR Minimum SRI	16	64	