



RE-ROOF QUESTIONNAIRE/AFFIDAVIT

Building Division
Effective: January 26, 2015

The following is the City of Brentwood's questionnaire on roof coverings for re-roofing permits. Although not recommended by the City of Brentwood, the California Building Code (CBC) does allow the installations of some roofing materials directly over the existing roofing material if approved by the roofing materials manufacturer. If such an installation is proposed, the City will require that manufacturer's cut-sheets be provided to the inspector in the field to confirm the proposed overlay roof and minimum methods of attachments. Also note that skylights installed during the re-roofing process (or other construction beyond the re-roof) will require an additional permit and perhaps additional note/details of construction. Note that even with this form, the City of Brentwood reserves the right to request additional drawings and/or information as determined by the completion of this form or from items encountered during field inspections.

Building Address: _____

Existing Roofing Material (check one):

- | | |
|---|---|
| <input type="checkbox"/> Wood Shakes | <input type="checkbox"/> Composition Mineral |
| <input type="checkbox"/> Lightweight Tile (less than 5 psf) | <input type="checkbox"/> Heavyweight Tile (all other types) |
| <input type="checkbox"/> Metal Roofing | <input type="checkbox"/> Built-up Roofing |

Proposed (new) Roofing Material (check one):

- | | |
|---|---|
| <input type="checkbox"/> Wood Shakes | <input type="checkbox"/> Composition Mineral |
| <input type="checkbox"/> Lightweight Tile (less than 5 psf) | <input type="checkbox"/> Heavyweight Tile (all other types) |
| <input type="checkbox"/> Metal Roofing | <input type="checkbox"/> Built-up Roofing |

Will plywood underlayment be installed with this installation of the new roof? Yes No

How many square feet of new roof is proposed to be installed? _____

PRIOR TO INSPECTIONS, THE CONTRACTOR WILL SUPPLY A HEAVY-DUTY (TYPE 1) EXTENSION LADDER ON THE JOB, EXTENDED A MINIMUM OF 3 FT. ABOVE ROOF EDGE AND SECURED TO THE STRUCTURE.

THE CITY OF BRENTWOOD TYPICALLY REQUIRES TWO INSPECTIONS:

- 1. ROOF DECK (plywood)**
- 2. FINAL (If dry rot is discovered at tear off, inspection is needed.)**

RE-ROOF PROCEDURES

To allow the roofing contractor to maintain the integrity of weather protection for re-roof projects in the City of Brentwood, the following procedure shall be the standard for Roof Deck inspection:

- In the event of inclement weather, contractor may proceed to protect the exposed structure with the installation of the required felt paper. When an inspection is called in, the inspector will ask for sections selected at random to be exposed to verify nailing of new plywood. Identify any areas where dry rot was found and sheathing replaced.
- The roofing contractor on re-roof permits for flat roofs shall remove and expose the entire roof surface for approval of the tear-off inspection. If the existing roof deck on flat roofs is to be left in place, the proper nailing of the existing deck shall be inspected during the approval of the roof deck inspection.

I, _____, do declare under penalty of perjury that the answers provided for this questionnaire are true.

Signature: _____ Date: _____



REROOF T-24 REQUIREMENTS

Building Division

Effective: January 26, 2015

Complete the appropriate section(s) of this form and add it to the permit file, for use by building inspectors

Permit Issue DATE: _____ Permit NUMBER: _____ CA Climate Zone: 12
 Permit ADDRESS: _____.

COOL ROOF IS NOT REQUIRED if any of the boxes below are checked.

Cool Roof Exemptions: Check any that apply.

- Roof pitch is less than 2:12
- Area to be re-roofed is less than 50% of total roof area
 Area to be re-roofed = _____ ft² Total roof area = _____ ft²

Cool Roof Alternatives: Check any that apply.

- There is an attic radiant barrier
- There are NO ducts in the attic
- Ducts in the attic have been HERS-verified to be sealed to $\leq 6\%$ leakage and insulated to $\geq R-6$
- There is at least R-38 ceiling insulation
- There is at least R-4 insulation above the roof deck
- 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
- There is at least a 1.0 inch air-space between the top of the roof deck and the bottom of the roofing product

COOL ROOF IS REQUIRED if none of the boxes above are checked. Circle applicable requirements in the Table.

Table 1. Prescriptive Requirements for COOL ROOFS

Does not apply to roof area covered by building-integrated photovoltaic (PV) and building-integrated solar thermal panels.

	Climate Zone	12
Roof Pitch > 2:12	3 year Aged Solar Reflectance, minimum	0.20
	AND Thermal Emittance, minimum	0.75
	OR Solar Reflective Index, minimum	16



Building Inspector:

Roofing material must have a Cool Roof Rating Council (CRRC) package label indicating compliance with the requirements in the table above.

Documentation Required:

- CF1R-ALT-01-E: Certificate of Compliance – Res Alteration (from permit applicant to building department)
- CF2R-ENV-05-E: Installation Certificate for Envelope (from installing contractor to building department)
- CRRC label specifying the initial and Aged Solar Reflectance and Thermal Emittance.



Non-Residential Re-Roofing T-24 requirements

Building Division

Effective: January 26, 2015

Permit Date: _____ Permit Number _____ Climate Zone: 12

Permit Address: _____

COOL ROOF IS NOT REQUIRED If any of the boxes below are checked.

Cool Roof Exemptions: Check any that apply.

- Roof area is over unconditioned space (e.g. warehouse) or process space (e.g. manufacturing)
- Area to be re-roofed does not exceed 2,000 ft² OR 50% of total roof area, whichever is greater

Area to be re-roofed = _____ ft² Total roof area = _____ ft²

Cool Roof Exceptions: Check any that apply.

- Roof constructions that have thermal mass with a weight of at least 25 lb/ft² over the roof membrane

COOL ROOF IS REQUIRED If none of the boxes above are checked. Circle applicable requirements in Table 1.

Table 1. Prescriptive Requirements for COOL ROOFS Circle the applicable requirements. NR = No Requirement

Nonresidential Buildings		
Low-sloped roof pitch <2:12	3 year Aged solar reflectance, minimum	0.63
	AND thermal emittance, minimum	0.75
	OR solar reflectance index, minimum	75
Steep-sloped roof pitch >2:12	3 year Aged solar reflectance, minimum	0.20
	AND thermal emittance, minimum	0.75
	OR solar reflectance index, minimum	16
Hotel, Motel, and High-rise Residential Buildings		
Steep-sloped roof pitch >2:12, All roof weights	3 year Aged solar reflectance, minimum	0.20
	AND thermal emittance, minimum	0.75
	OR solar reflectance index, minimum	16

NOTE: For nonresidential buildings with low-sloped roofs, the 2013 code includes an optional “tradeoff” between Aged Solar Reflectance values and increased roof/ceiling insulation.

Table 2. Tradeoff Values for Aged Solar Reflectance Circle the applicable requirements.

Roof/Ceiling Insulation Tradeoffs		
Aged Solar Reflectance	Metal Building U-factor	Other Building Types U-factor
0.62-0.60	0.061	0.036
0.59-0.55	0.054	0.034
0.54-0.50	0.049	0.032
0.49-0.45	0.047	0.003
0.44-0.40	0.043	0.028
0.39-0.35	0.039	0.027
0.34-0.30	0.035	0.025
0.29-0.25	0.033	0.024



Non-Residential Re-Roofing T-24 requirements

Building Division

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ROOF INSULATION IS NOT REQUIRED if any of the boxes below are checked.

Exception to Roof Insulation Requirements: Check any that apply.

- Existing roof is already insulated to at least R-7 or has a U-factor less than 0.089
- The roof is not exposed to the roof deck or roof recover boards.
- If mechanical equipment is located on the roof and will not be disconnected and lifted as part of the roof replacement, see Section 141.0(b)2Biii

ROOF INSULATION IS REQUIRED if none of the boxes above are checked.

Table 3. Mandatory Insulation Requirements for Roof Alterations Circle the applicable requirements in Table 2.

		Climate Zone			
		2	3	4	12
Nonresidential Buildings	Continuous insulation R-value /Roof assembly U-factor	R-14/0.055	R-8/0.082	R-8/0.082	R-14/0.055
High-rise Residential and Guest Rooms of Hotel/Motel buildings	Continuous insulation R-value /Roof assembly U-factor	R-14/0.055	R-14/0.055	R-14/0.055	R-14/0.055

BUILDING INSPECTOR: Roofing material must have a Cool Roof Rating Council (CRRC) package label indicating compliance with the requirements in the table above. If roof involves a field applied liquid coating, see Section 110.8(i)4, Table 110.8-C.

Building Inspector - Required Documentation:

- NRCC-ENV-02-E: Certificate of Compliance for Envelope Component Approach (from contractor or owner)
- NRCI-ENV-01-E: Certificate of Installation for Envelope (from installing contractor, before field inspection)
- A Cool Roof Rating Council (CRRC) label indicating compliance with applicable requirements in the Table.