

**NONRESIDENTIAL - HOTELS/MOTELS – HIGH-RISE RESIDENTIAL**

**FACSIMILE TRANSMITTAL SHEET**

Date: \_\_\_\_\_ From: \_\_\_\_\_  
 To: \_\_\_\_\_ Your Phone Number: \_\_\_\_\_  
 To Fax Number: (559) 498-4357 Your Fax Number: \_\_\_\_\_  
 Number of Pages Transmitted \_\_\_\_\_ including this page

**PERMIT #:** \_\_\_\_\_

**RE-ROOF PERMIT APPLICATION**

**Project Address:** \_\_\_\_\_

**Owner:** \_\_\_\_\_

**Contractor Information:** \_\_\_\_\_

Company Name Address Phone Number

**Building Use:**     Commercial Building     Hotel/Motel     High-Rise Residential

**Valuation-Total Cost of Roofing Material and Labor:** \_\_\_\_\_

**Proposed Roofing Material:**

Wood Shake/Shingles     Asphalt Shingle/Composition     Single Ply     Metal  
 Built-Up/Torch Down/Rolled     Heavy/Light Weight Tile     Foam/Liquid Coating     Other \_\_\_\_\_

**Roofing Material Information & Approvals:**

Manufacturer's Name \_\_\_\_\_ ICC Evaluation Report No. \_\_\_\_\_

Cool Roof Rating Council (CRRC) Ratings:    Solar Reflectance: \_\_\_\_\_    Thermal Emittance/SRI: \_\_\_\_\_

CRRC Product ID No. \_\_\_\_\_    Cool Roof Exceptions: **SEE PAGE 2 FOR OPTIONS BASED ON BUILDING USE**

Installed Weight of Tile: \_\_\_\_\_    Roof Slope: \_\_\_\_\_    Roofing Area: \_\_\_\_\_

Tear Off     Overlay (Only one existing may remain)

**COMMENTS:** \_\_\_\_\_

- \* The Attic Ventilation Worksheet shall be completed by the contractor/applicant to determine the number of vents required to comply with minimum Building Code requirements. (see attached)
- \* FOR LARGE STRUCTURES OR STRUCTURES WITH COMPLEX ROOF AND ATTIC AREAS, A ROOF PLAN SHALL BE PROVIDED SHOWING LOCATION OF EXISTING AND PROPOSED ATTIC VENTS.

**COOL ROOF PRODUCTS SHALL MEET THE REQUIREMENTS AS NOTED BELOW:**

**CALIFORNIA ENERGY CODE**

**SECTION 149 ROOF REPLACEMENTS**  
**NONRESIDENTIAL - HOTELS / MOTELS – HIGH-RISE RESIDENTIAL**

STRUCTURE	LOW-SLOPE < 2/12	STEEP SLOPE	ROOFING DENSITY < 5 PSF	ROOFING DENSITY > 5 PSF	SOLAR REFLECTANCE (MINIMUM)	THERMAL EMITTANCE (MINIMUM)	SRI	NOTES
NONRESIDENTIAL	X				0.55	0.75	64	1-2
NONRESIDENTIAL		X	X		0.20	0.75	16	2-3
NONRESIDENTIAL		X		X	0.15	0.75	10	2
HIGH-RISE RESIDENTIAL	X				0.55	0.75	64	1-2
HOTELS / MOTELS	X				0.55	0.75	64	1-2
HOTELS / MOTELS		X	X		0.20	0.75	16	2-3
HOTELS / MOTELS		X		X	0.15	0.75	10	

**NOTES:**

1. If the existing roofing is removed to the roof deck, the exposed area **must be insulated to R-14 value in addition to the installation of a Cool Roof.**

Proposed Insulation Manufacturer \_\_\_\_\_

Proposed Insulation Thickness \_\_\_\_\_

- Exception: The existing roof is insulated with at least R-7 insulation.
- Exception: Existing roof assembly has a U-factor lower than 0.089.
- Exception: The AC units are not going to be lifted. The insulation may be limited to provide a minimum 8" exposure at the base flashing.  
Proposed Insulation Manufacturer \_\_\_\_\_  
Proposed Insulation Thickness \_\_\_\_\_
- Exception: The insulation may be less than R-14 if the wall base flashing would be reduced to less than 8" by the installation of the R-14, and the following apply:
  - The walls are furnished with siding other than roofing; and
  - The exterior wall siding would have to be removed; and
  - Replaced roof area ÷ linear wall dimension ≤ 25.

2. If the roofing product does not meet Cool Roof requirements, the Overall Envelope Time Dependent Valuation Energy Approach of Section 143(b) of the California Energy Code may be used.

3. **The attic ventilation is required to meet current California Building Code requirements when roofing with composition shingles due to manufacturer's warranty requirements. Low vents must be distributed equally around the structure. Current CBC requirement is 1/300 of the attic floor area.**

**(SEE ATTIC VENTILATION WORKSHEET)**

**TYPICAL VALUES FOR ATTIC VENTS**

Soffit Vents

3.5 x 14.5 = 30 sq ins

3.5 x 22.5 = 50 sq ins

5.5 x 22.5 = 80 sq ins

Small Dormer Vents

50 sq ins

Large Dormer Vents

100 sq ins

Ridge Vents

Per ICC Evaluation Report

**ATTIC VENTILATION WORKSHEET**

**STEP 1**

**Determine Total Square Feet of Attic Floor Space (“Enclosed” Attic Space)**

Length of Attic \_\_\_\_\_ x Width of Attic \_\_\_\_\_ = (a<sup>1</sup>) \_\_\_\_\_ Square feet of attic space  
(Repeat process for all attic areas)

Length of Attic \_\_\_\_\_ x Width of Attic \_\_\_\_\_ = (a<sup>2</sup>) \_\_\_\_\_ Square feet of attic space  
(Repeat process for all attic areas)

Areas without Attic Space / Unenclosed / Vaulted ceiling (b) = \_\_\_\_\_ Square feet

Net Ventable Attic Space (c) = \_\_\_\_\_ Square Feet (a) – (b) = (c)

**STEP 2**

**Calculate Ventilation Requirement**

(c) \_\_\_\_\_ ÷ 300 = (d) \_\_\_\_\_ Square feet of code required ventilation

**STEP 3**

**Convert Square Feet to Square Inches**

(d) \_\_\_\_\_ x 144 = (e) \_\_\_\_\_ **TOTAL square inches of code required ventilation**

**STEP 4**

**Determine High & Low Ventilation Requirement**

(e) \_\_\_\_\_ ÷ 2 (high & low ventilation) = (f) \_\_\_\_\_ **Square inches of code required ventilation (high & low)**

**STEP 5**

**Determine Number of Existing Vents and Proposed New Vents in order to meet Ventilation Requirement**

Existing High Vents: Number of vents \_\_\_\_\_ @ \_\_\_\_\_ square inches = \_\_\_\_\_ square inches  
 Existing High Vents: Number of vents \_\_\_\_\_ @ \_\_\_\_\_ square inches = \_\_\_\_\_ square inches  
 Proposed High Vents: Number of vents \_\_\_\_\_ @ \_\_\_\_\_ square inches = \_\_\_\_\_ square inches  
**Total High Ventilation to be provided = \_\_\_\_\_ total square inches**

Existing Low Vents: Number of Vents \_\_\_\_\_ @ \_\_\_\_\_ square inches = \_\_\_\_\_ square inches  
 Existing Low Vents: Number of Vents \_\_\_\_\_ @ \_\_\_\_\_ square inches = \_\_\_\_\_ square inches  
 Proposed Low Vents: Number of Vents \_\_\_\_\_ @ \_\_\_\_\_ square inches = \_\_\_\_\_ square inches  
**Total Low Ventilation to be provided = \_\_\_\_\_ total square inches**

**Example:**

Step 1 Attic Area: 60 ft x 20 ft = (a) 1200 sq ft & (b) = 0  
 (a) 1200 – (b) 0 = (c) 1200 sq ft  
 Step 2 Ventilation Calculation: (c) 1200 ÷ 300 = (d) 4 sq ft  
 Step 3 Convert to Sq Inches: (d) 4 sq ft x 144 = (e) 576 sq in  
 Step 4 High and Low Vent Area Req' mts: (e) 576 ÷ 2 = (f) 288 square inches  
 Step 5:  
 Provided Low Vents (intake): 6 soffit vents @ 48 square inches each = 288 square inches  
 Provided High Vents (exhaust): 6 dormer vents @ 48 square inches each = 288 square inches  
 Total Ventilation provided: = 576 square inches