

March 27, 2007

NAME \_\_\_\_\_  
CONTRACTOR \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, ST ZIP \_\_\_\_\_, CA \_\_\_\_\_

RE: Title 24 Part 6 Steep Slope Roof Cost Information  
California Roofing Region  
PBC No: P0524

Dear Roofing Contractor:

We were provided your name as a possible source to assist us by providing some costing for new construction for steep roofing and we are looking for your help, paying you for your time. The cost information we are looking to receive is related to conventional steep slope roof coverings related to Title 24 Part 6 (T24P6) aka California Energy Efficiency Standards for roofing and what might be proposed and coming in the 2008 or 2009 code for Steep Slope "Cool Roofs".

The typical roof system installation cost information is part of our consulting work for a roofing manufacturer's association. The purpose of this generalized survey is limited to obtaining independent and objective approximate costs from contractors for "non-cool" vs. "cool" roofing systems (categories not yet finally defined), which will be provided to the CEC for its consideration in adopting governmental regulations aimed at energy savings. The information will only be used to identify and analyze any premium or surcharge that would attach to "cool roofing" systems. The cost information for each system needs only to reflect a system total for materials (including mark-up for overhead and profit) as well as a system total for labor (including mark-up). The systems listed below are included on the attached spreadsheet which seeks the needed cost information for this survey. Please provide typical cost information for as many of the indicated roof systems as you have bidding experience.

Some contractors contacted to assist us are within the same region. However, the data collected will be used only to show average completed roof price comparisons throughout the State overall (combining the labor and material costs--not showing the two items separately), broken down into large geographic regions (*e.g.*, So Cal vs. No Cal vs. Valley, etc.). Contractors' identities will not be disclosed in the comparisons and no costs will be specifically targeted to individual contractors. At a later time we will present a summary of information, may do an article, present a paper or other similar announcements on the costs and differentials obtained and will only list the contractors who assisted in the information gathering, if they so desire and agree in writing in advance.

Assume new roof installations, located within 25 mile radius of the contractor's operations, typical residence – DRAWING INCLUDED WITH ALL FEATURES NOTED. Include typical related sheet metal costs BUT do not include any roof attic vents.

Just fill in the B & C columns with costs and D should calculate. Similarly, fill in the cool side columns F & G columns with costs and H should calculate. NOTE: The blue cells are cool areas. It is important to recognize, that while "cool" for steep slope is not defined yet, our assumption is as indicated on the spreadsheet – so were not trying to test your knowledge or create trick questions for the cool columns.

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#### Selected Definitions

- Since "Cool" for steep roofing is not defined yet, we assume 0.20 to 0.25 reflectance for shingles (Elk assumed for now), and cost for a vented counterbatten system for possible convection effect, which we assume might be proposed and become a viable alternative. **The "cool" costs go in columns F & G on the right side of the forms.**
- "Fire Rated" means the system has been tested and qualifies for a Class B or better external fire rating (ASTM E108).
- System install is in standard (not high wind) location.
- House is generally 1 story in height but could include multi-family higher structures and accessible for lift truck, conveyor or forklift.
- **Asphalt Shingles**
  - Underlayment is assumed std. No. 15 ASTM D226 Type I, one layer 36-inch wide felt.
  - Electro-galv nails or staples
  - Std hip/ridge
  - California Cut valley
  - 20 year, 25 year and 30 year Metric 3-tab and 30 dimensional, 40 dimensional and 50 dimensional as indicated, cost separately – Elk Prestique I "cool" in the right column cool across from the 40 year dimensional and also indicate the high end Elk Winslow non & "cool" series cost with the cool in the in the right column
  - Four fasteners per shingle (or 5 or 6 or 7 as required by manufacturer for dimensional)
- **Concrete interlocking S-Tile and separately Slate or Shake over battens & solid sheathing**
  - Standard S-tile and slate or shake installation, both for standard weight and lightweight and , 1 x 2 treated or redwood battens (or without battens if local practice), roof section perimeter fastening, every other field course fastening on standard weight, all tile fastened for lightweight, 3-inch tile overlap
  - **Separately price an elevated batten system and note it in the "cool" column to the right of the std. s-tile & slate/shake install** – Install Monier 1 x 3 elevated counter batten system anchored with nails through each support block and into every truss/rafter positioned so blocks align over truss top chords), utilize vented eave riser and at hip & ridge use a ventilating flexible flashing sheet (small one-way directional holes near gap at hip/ridge board) similar TRI ICC#: ESR-1787 (alum. or copper) or MonierLifetile Figaroll,
  - Underlayment is assumed std. No. 30 ASTM D226 Type II, one layer 36-inch wide felt, wrapped over rake edges. Underlayment under **and** over hip & ridge nailers creating a dry hip & ridge system,
  - Std. matching hip and ridge trim tile fastened into nailer providing a cross-bead of mastic in overlap at nail over a flexible flashing sheet (utilize transitions lead at eave offsets, at ridge to hip/ridge to rake end etc.
  - All roof to wall 26 gage J flashing, 4 lb. lead head wall flashing, 26 gage double "W" valley flashing
  - Batten extenders at valleys, J flashings

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- Double metal “jack” system – one flashing interwoven at underlayment and flexible flashing, formed at tile level
- Assume no gutter, eave board is flush with deck, install 2 x 2 nosing and eave riser metal sealed at nail locations
- Small pieces adhered to previous tile course or wired

After you get a chance to review this information, feel free to call and ask for further clarifications, and confirm your willingness to possibly provide the requested information in the California geographic region. If possible we would like the information back as soon as possible but no later than the end of April, 2007.

In recognition of the value of your time, expertise and cooperation in agreeing to provide these services we are paying the sum of \$400, assuming you complete costs on all the items.

Thank you for the opportunity to be of assistance. Please call if you would like additional information, or wish to discuss the services in more detail.

Respectfully,

PACIFIC BUILDING CONSULTANTS, INC.

Digitally signed/sent

John A. Goveia, President  
Principal, Senior Consultant

JAG/  
Sent by email

enclosure: Originally scaled and quantity/size annotated Roof Plan  
System spreadsheet