



Seamus Burlingame  
COO  
Eagle Roofing Products  
3546 N. Riverside Ave.  
Rialto, CA 92377  
909-822-6000

January 1, 2008

**RE: Eagle Roofing Products Recycled Content**

To Whom It May Concern:

Eagle Roofing Products takes its commitment to environmental responsibility seriously. That's why Eagle leads all other concrete tile manufacturers in its recycling and re-use activities. Eagle makes a concerted effort to reduce haul-off from all of its plants while purchasing the most energy efficient and environmentally safe equipment it can find.

The pre-consumer recycled content of Eagle's standard weight tile is 2-1/2%. This percentage is comprised of reject tiles that are reintroduced into the manufacturing process Eagle's facilities in Rialto, California, Stockton, California, Phoenix, Arizona and Sumterville, Florida. Eagle's Phoenix, Arizona plant also utilizes recycled fly ash as part of the total 2-1/2% recycled content of standard weight tile produced at that plant location.

The pre-consumer recycled content of Eagle's lightweight tile is 65%. This percentage is comprised of expanded shale that has been re-claimed from other industrial operations. Eagle produces lightweight tile at its plants in Rialto, California and Stockton, California.

Eagle also employs the following practices at its manufacturing plants:

- Trash that cannot be recycled is compacted to reduce landfill volume.
- Wood tile pallets are repaired and re-used whenever possible.
- Synthetic oils are used on machinery when possible due to their longer life-span.
- Engine oil and filters from plant equipment are recycled.
- All Eagle tile sealers are water based.
- All wet-mix materials are re-introduced into the manufacturing process, including water and oxides.
- The tile mold release oil purchased is recycled from restaurant fryers. The oil is vegetable based.
- A low-NO<sub>x</sub> process is employed in our tile curing chambers.
- Industrial wash-down water is recycled and re-used.
- Energy efficient air compressors reduce energy use by 25% in our Stockton plant.
- Energy efficient fluorescent lights reduce electrical demand by 68% in our Stockton and Rialto plants.
- Modifications to the tile production line in Stockton resulted in 16% reduction in energy use.

Should you require additional information, please contact your local sales representative or visit our web site at [www.eagleroofing.com](http://www.eagleroofing.com).

Thank you.

Sincerely,

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**RE: Eagle Roofing Products Raw Materials Origins**

To Whom It May Concern:

Reducing fossil fuel use and preventing the release of air pollutants is one of Eagle Roofing Products environmental goals. As such, Eagle sources the raw materials used in the production of its concrete roof tile from areas local to its four manufacturing facilities.

Eagle's concrete tile manufacturing process utilizes approximately 90+% regionally extracted, processed and manufactured materials. The map below shows a 500 mile radius of Eagle's plants as well as the locations of the company's raw materials sources.



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Thank you.

Sincerely,

Seamus Burlingame  
COO  
Eagle Roofing Products



Jay Banister  
National Solar & Marketing Manager  
Eagle Roofing Products  
3546 N. Riverside Ave.  
Rialto, CA 92377  
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January 1, 2008

**RE: Eagle's Cool Roof Tile**

To Whom It May Concern:

Eagle has a selection of Cool Roof tile colors available for reroof and new construction projects. Approved by ENERGY STAR and the Cool Roof Rating Council, these colors may not only help a project qualify for green building requirements, they also provide superior benefits for owners and the environment.

Buildings using Eagle's Cool Roof Tile colors can expect a 10-30% savings on energy bills when compared to non-cool-roof products—that is a monthly savings of \$50-\$150 on a \$500/month electricity bill or \$600-\$1800 savings per year. Possible additional rebates may also be available through local utilities.

Per ENERGY STAR, a reflective roofing product like Eagle's Cool Roof Tile can lower roof surface temperatures by up to 100°F. This level of temperature reduction prevents the transfer of heat into the home or building, which reduces how hard the air conditioner must work, directly resulting in energy savings for the owner. Individual results are dependent on many factors like local climate and building insulation, but typically an owner can expect to reduce peak cooling demand by 10-15% when compared to non-cool roof products leading to the purchase of smaller, less expensive HVAC systems.

Reflective roofing products can also help reduce the “heat island effect.” The heat island effect occurs in urban and suburban areas and results in temperatures that can be 2-8°F warmer than the surrounding countryside. Such heat islands occur, in large part, because many buildings and paved surfaces are designed with dark materials that absorb heat from the sun. This heat is radiated back into the surrounding atmosphere, raising air temperatures. The resulting elevated temperature leads to an increased demand for air conditioning in buildings, increased fuel use for vehicle air conditioning, increased levels of smog, and associated increased levels of health problems.

In addition to CRRC and ENERGY STAR ratings, Eagle's Cool Roof Tile may also help a project qualify for Leadership in Energy and Environmental Design (LEED®) points ultimately allowing that project to qualify for LEED certification. LEED is a program that assists design professionals in the creation of buildings that affect a minimal, and sometimes beneficial, impact on the environment.

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Sincerely,

Jay Banister  
National Solar & Marketing Manager  
Eagle Roofing Products



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**RE: Eagle's Energy Saving Roof**

To Whom It May Concern:

With the Eagle Energy Saving Roof, an air current is created that draws air in at the eave level and out at the ridge. This ventilation of the roof deck helps to reduce heat transfer into your attic and thus into your home or building. The Eagle Energy Saving Roof is an installation method that utilizes the inherent insulating properties of Eagle concrete roof tile and several Eagle accessory products to install the roof in an energy efficient manner. The result means less work for the air conditioner, less expenditure of energy, and lower electrical bills for the end user.

Research studies show the Energy Saving Roof helps prevent heat transfer. According to Dr. Miller of Oak Ridge National Laboratories, a 1995 study by Beal and Chandra showed:

- A 48% reduction in heat transfer into the attic with tile roofs installed using ASV [above sheathing ventilation like the Energy Saving Roof] when compared to a direct nailed asphalt shingle roof.
- A 39% reduction of heat transfer into the attic in comparing concrete tile and asphalt shingles when both products were installed in a direct deck application.

This means that an Eagle Energy Saving Roof can reduce heat transfer into the attic by almost 50% when compared to an asphalt roof. The result is a significant reduction in the amount of energy required to cool a building and that results in lower electricity bills for the owner.

There are only four products required to create Eagle's Energy Saving Roof:

1. Eagle Concrete Roof Tile, especially Eagle's Cool Roof Tile
2. Ventilated Bird Stop to allow for air intake at the eave
3. The Riser™ plus 1" x 2" (or 1" x 3") battens to lift the tile off the roof deck and allow for airflow under the tile
4. FlexVent™ to allow for air exhaust at the ridge

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Thank you.

Sincerely,

Jay Banister  
National Green Program Manager  
Eagle Roofing Products