

Case Study

Eagle Roofing Products



East Bay Resident Reroofs with Eagle Solar Roof to Reduce Carbon Footprint and Save Money



- Project:** Kuffner Residence
- Homeowner:** William Kuffner
- Roofer:** Century Roof & Solar, Inc., San Francisco Bay Area
- Product:** Eagle Solar Roof with SolarBlend™ from Suntech
- Tile:** Ponderosa Charcoal Range #5699
- Solar:** SolarBlend™ Roofing Tile Gray 34 Watt, 5.5 kW DC solar system



Profile: Ponderosa
Product No: 5699
Name: Charcoal Range
Description: Gray Range



SolarBlend™ Roofing Tile Gray 34 Watt

East Bay resident William Kuffner needed a new roof to replace his existing wood shake roof. He searched for a roof that would be friendly to the environment, help reduce his utility costs and increase the value and beauty of his home. He found it in the Eagle Solar Roof with SolarBlend™ from Suntech.

The craftsmanship to realize this vision was furnished by the experienced roofing and solar contractors of Century Roof and Solar, Inc.. Century Roof and Solar knows that homeowners make an investment in their roof and expect it to provide lasting performance and increase the value of their home.

Century prides itself on providing a skilled and worry-free installation that stays on schedule and on budget.

The Eagle Solar Roof installed on the Kuffner residence utilized Eagle's Ponderosa Charcoal Range concrete tile and SolarBlend™ Gray 34 watt solar roofing tiles. A 5.5 kW DC solar system was installed on the home. According to the homeowner, this system has reduced electric bills by approximately \$200 per month. The savings has allowed the family to spend money making other energy efficient home improvements, such as the purchase of a new water heater.

Solar Roofing Tiles



Before Eagle Solar Roof



After Eagle Solar Roof

The Kuffners' are also concerned with doing their part to preserve our environment. Their Eagle Solar Roof has prevented over 14,000 pounds of CO₂ from entering the atmosphere since it was commissioned in June of 2008. Ten years of free internet-based monitoring tracks the Kuffners' energy production as well as the reduction of fossil fuel use and environmentally unfriendly byproducts, like the release of smog-producing chemicals.

At California's current electrical rates, the Kuffners' solar system will pay for itself in about 14 years. Considering the escalating cost of electricity in the state, a shorter payback period is a real possibility. Add to this the fact that solar homes are shown to increase home value, and the true investment value of a solar home is illustrated. According to Why Is A Solar Electric Home Worth More? written by Andrew J. Black, "A solar electric system increases home value by \$20,000 for each \$1,000 in annual reduced operating costs, according to the Appraisal Institute. ... That is to say, if a solar system can reduce the electric bill by \$1,000 per year, the home is worth about \$20,000 more in increased appraisable value." Based on this formula, the Kuffners' home value increased by over \$40,000 due to the installation of the Eagle Solar Roof with SolarBlend™ from Suntech.

"The Eagle Solar Roof works as well as it looks. I am so happy we did this," said William Kuffner. "The last few spring days, it has been producing an average of about 40 kWh a day. Our neighbors can see how good the system looks from the curb.

Based on the appearance and energy production, I don't know why someone would choose another solar system."

The Eagle concrete tile installed on the roof is also an energy efficient, economical and durable product. Concrete tile is highly emissive meaning that it acts as an insulator helping to prevent heat transfer through the roof into the home on hot summer days. With a Class A fire rating, the assurance that it passes freeze/thaw tests, exceeds current seismic load requirements and is protected by a Lifetime Transferable Limited Product Warranty*, concrete tile is also a very durable and long lasting roofing choice.

"The Eagle Solar Roof creates clean, safe and quiet renewable energy with SolarBlend™ solar roofing tiles. These solar roofing tiles are produced by Suntech, the world's largest solar module manufacturer and backed by a 25 year power output warranty," said Jay Banister, Eagle's national solar and marketing manager. "Now more than ever, homeowners need to make smart choices about conserving energy—not only for their own financial benefit, but for the protection and benefit of their children and grandchildren. Eagle is proud to have provided the innovative and sustainable Eagle Solar Roof with SolarBlend™ from Suntech to meet the needs of the Kuffner family."

*Warranty must be registered with Eagle Roofing Products.

E n v i r o n m e n t a l l y R e s p o n s i b l e

