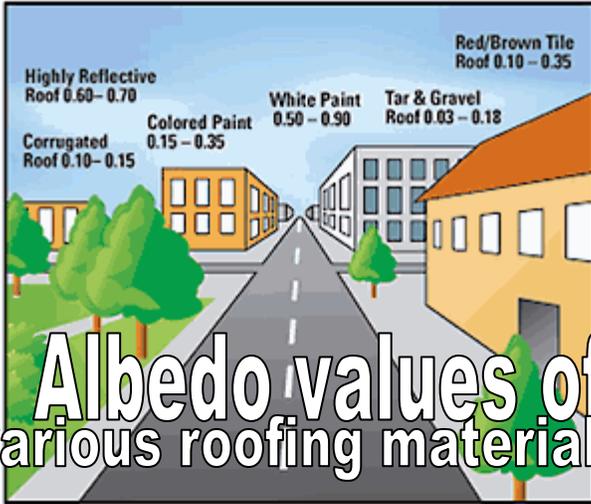




# Energy Efficient Roofing Products

## City of Huntington Beach Green Building Tips



Roofing materials have many different properties, but for energy efficiency in sunny Huntington Beach, the two most important are solar reflectance, also called albedo, and emissivity.

**Albedo:** the higher the albedo value, the better the product is at reflecting sunlight and heat away from a building.

**Emissivity:** the higher the emissivity value, the greater amount of heat energy the product will retain after being exposed to sunlight

In Huntington Beach, the albedo value of your roofing materials should be as high as possible, while your emissivity value should be as low as possible.

The EPA reports that, after monitoring more than 10 buildings here in California and in Florida, "cool roofs" designed for energy efficiency provided savings to residents and building owners of 20-70% less in annual cooling energy use.

On a unit-area basis, reflective roofs are usually cost-competitive with traditional roofs at the time of purchase. When the lifetime costs of cool and traditional roofs are compared, however, cool roofs are often less expensive. This is because, once installed, electricity demand is reduced and summertime savings on energy bills begin to add up. In fact, experience has shown that, over time, most reflective roofs pay for themselves.

For more information, visit:  
The Lawrence Berkeley National Laboratory  
Cool Roofing Materials Database

<http://eetd.lbl.gov/coolroofs/>

Energy efficient metal roofing



Information derived from Environmental Protection Agency  
<http://www.epa.gov/heatisd/>  
<http://www.energystar.gov>



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Products bearing the Energy Star logo have been certified as meeting stringent energy efficiency guidelines established by the US Department of Energy and Environmental Protection Agency.