



SKILLED CRAFTERS OF METAL ROOFING SYSTEMS

ENERGY EFFICIENT AND SUSTAINABLE

AVERAGE LIFE CYCLE COST OF A METAL ROOF IS **28% LOWER** THAN AN ASPHALT ROOF

HOW A METAL ROOF SAVES ENERGY

Solar Reflectance is the amount of solar energy that is reflected by a metal roof

Thermal Emittance is the relative ability of a metal roof surface to release absorbed heat

Some heat is absorbed by the roof and transferred to the building below

Solar Reflectance + Thermal Emittance = Reduced Temperature Inside = Decreased Cooling Demand Saving Energy & Money!

FOR A SUSTAINABLE FUTURE WITH PLENTY OF GREEN

Nobody disputes the quality and beauty of a metal roof, but is it energy efficient? Metal roofing systems like those we customize and fabricate at EMF are made to take sustainability seriously. With a best-practices installation and use of Energy Star® rated materials used to create our products, we can assure you that our metal roofing panels are incredibly energy efficient in the short and long term. From saving both energy and money on air conditioning, reducing greenhouse emissions and being 100% recyclable, a metal roof from Extreme Metal is an environmentally conscience choice. Add in the superior longevity of a metal roofing system resulting in savings on maintenance and replacement, and you get the lowest life cycle cost in the industry. Learn more about the science behind energy saving and sustainable metal roofing in our Frequently Asked Questions.

FAQ

Q: WHAT IS REFLECTIVITY?

A: Heat (sun energy) that bounces back off a roof instead of being absorbed is energy that is reflected away from a structure, similar to the way your reflection bounces off a mirror. This reflectivity keeps your roof and your home cooler, so the air conditioning doesn't have to work as hard, saving energy and saving you money on your electric bills.

Q: WHAT IS EMITTANCE?

A: The ability of a surface (roof) to radiate absorbed heat back into the atmosphere allows the roof to cool itself. This efficiency of emittance, especially when combined with reflectivity, also works to keep your roof and the rooms beneath it cooler, reducing the energy needed to run your air conditioner.

Q: WILL A DARK METAL ROOF SAVE LESS ENERGY THAN A LIGHT-COLORED METAL ROOF?

A: In general, lighter color roofs naturally reflect heat, as well as emit heat better than darker hues. Advances in finish technology however have led to the development of high performance finishes such as Kynar 500®-based 70% PVDF paint coatings, Tedlar® PVF film and other energy-efficient surface protections. Made with special pigments that are highly reflective, even dark colored metal roofing is a smart choice for a beautiful and sustainable roof.

Q: HOW MUCH CAN I SAVE IN ENERGY COSTS BY INSTALLING A METAL ROOF?

A: According to the Metal Roofing Alliance, metal is one of the most energy efficient roofing materials available and can save your home up to 40% in air conditioning costs.

Q: IS A METAL ROOF BETTER FOR THE ENVIRONMENT THAN A SHINGLE ROOF?

A: Yes! Metal roofs can be made from mostly recycled content and have a minimal carbon footprint. The coatings reflect heat to lower cooling costs, reduce the emission of greenhouse gases and other pollutants at power plants, and can be integrated with solar panels. The longer life-span of a metal roof creates increased sustainability and is 100% recyclable if replaced.

Q: HOW LONG WILL MY METAL ROOF LAST?

A: A properly installed metal roof made from aluminum or steel can last up to 50 years or more while a copper roof could last over 100 years. Some copper roofs are known to have beautifully endured for centuries.

833-EMF-ROOF EXTREMOMETALFABRICATORS.COM needmetal@emfab.net

