

Cool Metal Roofing

Sustainable and Environmentally Friendly



The most versatile and energy efficient choice for roofing

Central States' cool metal roofing products are an excellent choice for those looking to install a sustainable, energy efficient roof. Metal roofing lowers a building's heat gain through its roof, saving money on cooling costs.

Since metal roofing is sustainable and environmentally friendly, it can qualify for LEED points, tax credits, and homeowners insurance discounts. This is because of the energy efficiency, high recycled content, long life span, and fire resistance ratings of Central States' metal roofing products.

Central States' roofing products come in a wide range of emissivity and solar reflectivity values perfect for any environment.

- Can reduce Energy bills up to 40%.
- Last 2-3 times longer than traditional asphalt shingles.
- Made of up to 95% recycled content.
- Low weight allows it to be installed over a layer of shingles, saving time, money, and reducing waste.



WWW.CENTRALSTATESMFG.COM

Copyright © 2015, Central States Manufacturing, Inc., All Rights Reserved.
Galvalume® is a registered trademark of BIEC International, Inc.

CE FLYR_CoolMetal_160525.1

Choose an energy efficient paint finish.

Two factors, solar reflectivity and emissivity, are considered when determining the energy efficiency of roofs. These two factors combine to make the Solar Reflectivity Index (SRI) value.

Use this chart to help chose the best paint color for the project.

COLOR	INITIAL SOLAR REFLECTIVITY	3-YEAR SOLAR REFLECTIVITY	INITIAL EMISSIVITY	SRI VALUE	ENERGY STAR STEEP SLOPE	
Alamo	0.64	.53	0.86	77	Yes	<u>ENERGY STAR:</u> a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy working to help save money and protect the environment through energy efficient products and practices.
Arctic/Brilliant (Galvalume)	0.69	.64	0.86	84	Yes	
Brilliant/Arctic (Galvanized)	0.69	.64	0.86	84	Yes	
Black	0.26	.24	0.87	25	Yes	
Brown	0.33	.22	0.86	34	Yes	
Burgundy	0.30	.22	0.87	31	Yes	
Burnished Slate	0.34	.22	0.86	35	Yes	
Charcoal	0.37	.25	0.86	39	Yes	
Colony	0.35	.32	0.86	37	Yes	
Copper Metallic	0.45	.44	0.85	50	Yes	
Crimson	0.31	.32	0.86	31	Yes	
Desert	0.42	.32	0.87	47	Yes	
Fern	0.28	.25	0.86	27	Yes	
Forest	0.25	.25	0.87	24	Yes	
Gallery	0.25	.25	0.86	24	Yes	
Galvalume® (Acrylic Coated)	0.77	.51	0.08	72	Yes	
Galvanized (Acrylic Coated)	0.58	.25	0.07	32	Yes	
Gray	0.46	.35	0.86	52	Yes	
Hawaiian	0.23	.22	0.87	21	Yes	
Hunter	0.35	.32	0.86	37	Yes	
Ivory	0.64	.53	0.86	77	Yes	
Lt. Stone	0.56	.55	0.86	65	Yes	
Ocean	0.25	.25	0.87	24	Yes	
Pewter Gray	0.46	.35	0.87	52	Yes	
Polar	0.64	.55	0.86	77	Yes	
Rustic	0.34	.22	0.86	35	Yes	
Tan	0.45	.45	0.87	51	Yes	
Taupe	0.38	.35	0.87	41	Yes	

Solar reflectance values are determined by means of a solar spectrum reflectometer in accordance with ASTM C 1549. Thermal emittance values are determined in accordance with ASTM C 1371 SRI is calculated in accordance to ASTM E 1980 with medium wind speed. Laboratory and Exposure site are ISO 17025 Accredited, Laboratory is also EPA Accredited. Panels are unwashed.

Solar Reflectivity: is a measure of a material's ability to reflect sunlight. This characteristic of metal roofing is the most important in terms of energy savings. Cool metal roofing reflects much of the sun's rays, making the surface of the metal much cooler than material with a lower solar reflectivity rating.

Emissivity: is the ability of a material to release absorbed heat. A low emissivity rating means the material will be hot to the touch (it doesn't release the heat), while material with a higher emissivity rating will be cooler to the touch. Therefore, metal with a low emissivity rating retains heat and may be more desirable for a cooler climate, while a high emissivity rating is more effective for saving energy in a warmer climate.

LEED Rating System: LEED stands for Leadership in Energy and Environmental Design. The LEED rating system was designed to guide and distinguish high performance buildings that have less of an impact on the environment, are healthier for those who work and/or live in them, and are more profitable than their conventional counterparts. Using metal and other "green" products can earn points towards LEED certification.