

Eagle Cool Roof Tile



Eagle's ENERGY STAR and CRRC Rated Products Result in Energy Savings

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 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's 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 utility companies. Beyond these benefits, Cool Roof Tile is also kind to the environment. Its use helps to reduce heat islands, the dissemination of smog producing chemicals and the production of CO2.

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 meaning much less work for the air conditioner which directly results 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." Heat islands develop in cities and result in temperatures that can be 2 to 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 released at night, causing the air temperature to remain high. 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 heat-related and smog related health problems. Choosing reflective roofing products helps contribute to a safe and healthy environment.



Cool Roofs in Green Building Organizations or Building Code Bodies

Agency	Location	Program Name	Description	Solar Reflectance Requirements	Website or Contact Info
Environmental Protection Agency/ Department of Energy	Federal	Energy Star	EPA's program that certifies energy efficient products, practices and buildings as Energy Star compliant in the residential and non-residential sectors	Reflectance \geq 0.25 (\geq 0.15 aged) for steep sloped roofs	888-STAR-YES www.energystar.gov/index.cfm?c=roof_prods.pr_roof_products
U.S. Green Building Council	National	LEEDTM Green Building Rating System	The LEED Green Building Rating System has awards points for energy efficient, green building design including points for cool roofing	Solar Reflectance Index (SRI) \geq 29 for steep-sloped roofs.	202-828-7422 leedinfo@usgbc.org http://www.leedbuilding.org/
Green Building Initiative	National	Green Globes	Interactive, web-enabled, points based scoring system. Total of 1,000 eligible points awarded using energy calculator to achieve credit towards 1, 2, 3, or 4 Globes status.	SRI \geq 29 for steep-slope. Reflectance \geq .65 & emissivity \geq .90 on at least 75% of roof	877-GBI-GBI1 info@thegbi.org
Residential Energy Services Network	National	RESNET HERS Index	RESNET's standards are recognized by the U.S. mortgage industry, ENERGY STAR, and other green building programs. RESNET Ratings provide a HERS Index (100 represents energy use of the "American Standard Building" and of 0 would be a Zero Energy Building)	Variable, white tile expected to have the greatest performance impact on rating	www.natresnet.org/
California Energy Commission	California	Title 24	2008 standards are expected to adopt cool roofing requirements for steep slope buildings. Currently, cool roofing only applies to low slope	TBD	www.energy.ca.gov/title24/

Note: The programs above are subject to change, and may be subject to additional requirements. This summary is provided only as a resource for customers.

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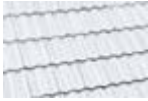









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Qualifying Products

Part No.	Product Weight	Profile	Name	Photo	Reflectance	Emittance	Solar Reflectivity Index
2800	Standard	Malibu	White on White*		79%	91%	99
4800	Standard	Bel Air	White on White*		79%	91%	99
3241	Standard	Capistrano	Sun Valley		71%	89%	87
4241	Standard	Bel Air	Sun Valley		71%	89%	87
2241	Standard	Malibu	Sun Valley		71%	89%	87
3388	Standard	Capistrano	Coconut Creek		69%	89%	85
2388	Standard	Malibu	Coconut Creek		69%	89%	85
4388	Standard	Bel Air	Coconut Creek		69%	89%	85
3325	Standard	Capistrano	Sand Creek		66%	90%	80
2325	Standard	Malibu	Sand Creek		66%	90%	80

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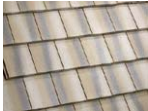



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Part No.	Product Weight	Profile	Name	Photo	Reflectance	Emittance	Solar Reflectivity Index
4325	Standard	Bel Air	Sand Creek		66%	90%	80
3247	Standard	Capistrano	Sonora Vista		59%	83%	69
2247	Standard	Malibu	Sonora Vista		59%	83%	69
4247	Standard	Bel Air	Sonora Vista		59%	83%	69
3203	Standard	Capistrano	San Fernando		55%	79%	62
2203	Standard	Malibu	San Fernando		55%	79%	62
4203	Standard	Bel Air	San Fernando		55%	79%	62
3258	Standard	Capistrano	Ridgecrest		51%	93%	61
2258	Standard	Malibu	Ridgecrest		51%	93%	61
4258	Standard	Bel Air	Ridgecrest		51%	93%	61

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Part No.	Product Weight	Profile	Name	Photo	Reflectance	Emittance	Solar Reflectivity Index
2159	Standard	Malibu	Imperial Dunes		39%	77%	38
4159	Standard	Bel Air	Imperial Dunes		39%	77%	38
3118	Standard	Capistrano	Terracotta Gold		39%	76%	38
2118	Standard	Malibu	Terracotta Gold		39%	76%	38
4118	Standard	Bel Air	Terracotta Gold		39%	76%	38
418	Lightweight	Malibu	Terracotta Gold		39%	76%	38
2357	Standard	Malibu	Sierra Ridge		38%	77%	37
4357	Standard	Bel Air	Sierra Ridge		38%	77%	37
2209	Standard	Malibu	Arrowhead Gray		37%	76%	35

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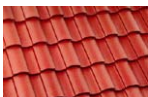

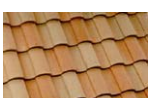

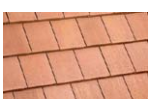
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Part No.	Product Weight	Profile	Name	Photo	Reflectance	Emittance	Solar Reflectivity Index
4209	Standard	Bel Air	Arrowhead Gray		37%	76%	35
3233	Standard	Capistrano	Cayenne		32%	91%	35
2233	Standard	Malibu	Cayenne		32%	91%	35
4233	Standard	Bel Air	Cayenne		32%	91%	35
433	Lightweight	Capistrano	Cayenne		32%	91%	35
SMC 8404	Standard	Capistrano	San Juan		30%	85%	30
LMC 8404	Lightweight	Capistrano	San Juan		30%	85%	30
3560	Standard	Capistrano	Caliente		28%	88%	28
4560	Standard	Bel Air	Caliente		28%	88%	28

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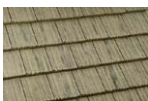






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Part No.	Product Weight	Profile	Name	Photo	Reflectance	Emittance	Solar Reflectivity Index
3794	Standard	Capistrano	Coronado		27%	94%	30
4794	Standard	Bel Air	Coronado		27%	94%	30
5794	Standard	Ponderosa	Coronado		27%	94%	30
3698	Standard	Capistrano	Kona Red Range		26%	83%	23
2698	Standard	Malibu	Kona Red Range		26%	83%	23
4698	Standard	Bel Air	Kona Red Range		26%	83%	23
598	Lightweight	Capistrano	Kona Red Range		26%	83%	23.63
3598	Standard	Capistrano	Ocotilla		25%	80%	21
2598	Standard	Malibu	Ocotilla		25%	80%	21

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Part No.	Product Weight	Profile	Name	Photo	Reflectance	Emittance	Solar Reflectivity Index
4598	Standard	Bel Air	Ocotilla		25%	80%	21

*May be manufactured with gray cement and a white color coat.

ENERGY STAR: When installed properly, this product will help reduce energy costs. Actual savings will vary based on geographic location and individual building characteristics. Consult your product manufacturer, roofing contractor, or call 1-888-STAR-YES (1-888-782-7937) for more information.

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