



Solar Reflectance Index (SRI) Reference Table

- **Reflectance** is the roof's ability to reflect sunlight, reducing heat transfer to the building.
- **Emmissivity** is the portion of absorbed heat reemitted from the roof.
- **Solar Reflectance Index (SRI)** is a measure of the constructed surface's ability to stay cool in the sun by reflecting solar radiation and emitting thermal radiation. It is defined such that a standard black surface (initial solar reflectance 0.05, initial thermal emittance 0.90) has an initial SRI of 0, and a standard white surface (initial solar reflectance 0.80, initial thermal emittance 0.90) has an initial SRI of 100.**

Color	Reflectance		Emmissivity		SRI	
	0.25 Min. New	0.15 Aged	New	Aged	New	Aged
Empire Colors						
Sea Salt*	0.453	0.419	0.876	0.894	51	47
Drifting Dunes*	0.372	0.359	0.858	0.881	40	39
Cool Smoke (in test)	0.288		0.902		31	
Saratoga Sunset*	0.290	0.305	0.880	0.887	30	32
Fairport Fern	0.190		0.890		17	
Geneva Grove	0.140		0.890		11	
Saranac Smoke	0.130		0.890		10	
Hampton Harbour	0.130		0.890		10	
Monticello Merlot	0.120		0.890		9	
Auburn Acorn	0.090		0.890		5	
Manhattan Midnight	0.080		0.890		4	
Freeport Federal	0.080		0.880		3	
Bedford Black	0.050		0.890		0	
Majestic Colors						
Cedar Brown	0.139		0.900		12	
Earth Green	0.087		0.970		9	
Stone Red	0.116		0.900		9	
Smoke Gray	0.080		0.900		8	
Chestnut Brown	0.074		0.940		6	
Black	0.047		0.940		4	
Midnight Gray	0.020		0.900		2	
Federal Gray	0.094		Not tested		Not tested	
Mountain Plum	Not tested		Not tested		Not tested	



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*Energy Star® rated colors **Definition according to the U.S. Green Building Council
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