

# Solar Reflectance Index (SRI) Reference Table



## Why Choose EcoStar?

- Innovators in synthetic roofing since 1993
- Breadth of slate, shake, concrete and clay product offering
- Made with up to 80% upcycled polymer & rubber (not tires)
- Designed with up to 6" headlap for installation integrity
- Easy application keeps installation costs down
- Proven products providing superior protection against fire, ice, snow, wind, rain and hail
- Manufactured in the USA

## Protection Overview

- Miami Dade prolonged and accelerated weathering @ 4,500 hours
- Miami Dade Wind TAS100 & TAS125 (NOA # 23-0601.01)
- Canadian Code Compliance Evaluation (CCMC-14174-R)
- UL listed Class C or A fire resistance (UL 790)
- UL Class 4 (highest rating) hail impact resistance (UL 2218)
- Job lot control produces uniform roof tile weathering
- Manufactured to ISO 9001:2015 Quality Management Standard
- 50-Year Material Warranty
- 50-Year Transferable Labor and Material Warranty available

Color	Solar Reflectance				Thermal Emittance				SRI			
	Initial		3 Year		Initial		3 Year		Initial		3 Year	
	Class A	Class C	Class A	Class C	Class A	Class C	Class A	Class C	Class A	Class C	Class A	Class C
Sea Salt	0.37		<b>0.38</b>		0.88		<b>0.89</b>		41		<b>42</b>	
Drifting Dunes	0.38		<b>0.38</b>		0.88		<b>0.91</b>		42		<b>43</b>	
Driftwood	0.33		<b>0.33</b>		0.88		<b>0.91</b>		35		<b>36</b>	
Sage Green	0.32		<b>0.32</b>		0.88		<b>0.89</b>		34		<b>34</b>	
Saratoga Sunset	0.32		<b>0.34</b>		0.89		<b>0.89</b>		34		<b>36</b>	
Smoke Gray	0.29	0.08	<b>0.31</b>		0.88	0.90	<b>0.90</b>		30	8	<b>34</b>	
Mountain Plum	0.29		<b>0.29</b>		0.88		<b>0.90</b>		30		<b>31</b>	
Chestnut Brown	0.29	0.074	<b>0.29</b>		0.89	0.94	<b>0.91</b>		30	6	<b>31</b>	
Federal Gray	0.28	0.094	<b>0.29</b>		0.88		<b>0.89</b>		28		<b>31</b>	
Earth Green	0.27	0.087	<b>0.30</b>		0.88	0.97	<b>0.91</b>		27	9	<b>32</b>	
Midnight Gray	0.24	0.02	<b>0.24</b>		0.88	0.90	<b>0.90</b>		23	2	<b>25</b>	
Black	0.05	0.047			0.89	0.94			0	4		
Cedar Brown		0.139				0.90				12	Pending	
Stone Red		0.116				0.90				9	Pending	
Terra Cotta	Pending											

**CRRC Approved Cool Color**

The chart above has been developed using a variety of SRI test results. For current CRRC ratings see coolroofs.org. All Class A (formerly Empire) colors listed above are the cool version of standard Class A colors.

- **Reflectance** is the roof's ability to reflect sunlight, reducing heat transfer to the building.
- **Emissivity** 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. (Definition according to the U.S. Green Building Council)
- CA Title 24 Summary - [see coolroofs.org/resources/california-title-24](https://coolroofs.org/resources/california-title-24)
- Class A Colors previously referred to as:
  - Auburn Acorn - Chestnut Brown
  - Fairport Fern - Sage Green
  - Geneva Grove - Earth Green
  - Hampton Harbour - Driftwood
  - Monticello Merlot - Mountain Plum

