

GAF Solar Reflective Products and Ratings for Shingles - Updated 8-8-23

All Listed Products (click on the product name for product information and submittal documents)

Thermal emittance and solar reflectance values shown on this table are values obtained for CRRC ratings.

Other values for reflectance or emittance may vary based on test requirements.

Title 24 is based on requirements effective January 1, 2020. Aged SRI (Title 24) is calculated using Aged Reflectivity and Initial Emissivity.

| Program Link | Initial Solar Reflectanc | 3 Yr. Solar Reflectance | Initial Thermal Emittance | 3 Yr. Thermal Emittanc | Initial SRI | Aged SRI | Aged SRI (Title 24) | CRRC Product ID | Title 24 | LEED v4 Credit |
|--|--------------------------|-------------------------|---------------------------|------------------------|-------------|----------|---------------------|-----------------|----------|----------------|
| Timberline HDZ® (White) (Tampa, FL plant) | 0.26 | 0.29 | 0.85 | 0.78 | 24 | 25 | 28 | 0676-0030 | Yes | Not Eligible |
| Royal Sovereign® (White) | 0.27 | 0.27 | 0.91 | 0.84 | 29 | 25 | 28 | 0676-0033 | Yes | Not Eligible |
| Timberline® Cool Series® and Timberline® CS - Cool Barkwood (Fontana, CA plant) | 0.27 | 0.26 | 0.90 | 0.92 | 27 | 27 | 27 | 0676-0041a | Yes | Not Eligible |
| Timberline® Cool Series® and Timberline® CS - Cool Weathered Wood (Fontana, CA plant) | 0.28 | 0.27 | 0.92 | 0.90 | 30 | 28 | 29 | 0676-0042a | Yes | Not Eligible |
| Timberline® Cool Series® and Timberline® CS - Cool Antique Slate (Fontana, CA plant) | 0.28 | 0.26 | 0.92 | 0.91 | 30 | 27 | 28 | 0676-0043a | Yes | Not Eligible |
| Timberline® Natural Shadow® and Timberline® NS - Arctic White (Shafter, CA plant) | 0.26 | 0.29 | 0.85 | 0.78 | 24 | 25 | 28 | 0676-0089 | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Birchwood) | 0.20 | 0.23 | 0.92 | 0.93 | 20 | 24 | 24 | 0676-0096 | Yes | Not Eligible |
| Timberline Solar HDZ™ (Birchwood Plus) (Mt Vernon, IN plant) | 0.20 | 0.23 | 0.92 | 0.93 | 20 | 24 | 24 | 0676-0096 | Yes | Not Eligible |
| Timberline HDZ® (Birchwood) (Mt Vernon, IN plant) | 0.20 | 0.23 | 0.92 | 0.93 | 20 | 24 | 24 | 0676-0096 | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Copper Canyon) (Shafter, CA plant) | 0.17 | 0.18 | 0.92 | 0.90 | 16 | 17 | 17 | 0676-0097 | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Golden Amber) (Shafter, CA plant) | 0.20 | 0.22 | 0.92 | 0.89 | 20 | 21 | 22 | 0676-0098 | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Aged Chestnut) (Shafter, CA plant) | 0.18 | 0.19 | 0.90 | 0.88 | 17 | 16 | 18 | 0676-0130a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Coastal Slate) (Shafter, CA plant) | 0.18 | 0.19 | 0.91 | 0.88 | 17 | 17 | 18 | 0676-0131a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Sagewood) (Shafter, CA plant) | 0.19 | 0.20 | 0.91 | 0.88 | 19 | 18 | 19 | 0676-0132a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Sandalwood) (Shafter, CA plant) | 0.21 | 0.20 | 0.91 | 0.88 | 21 | 18 | 19 | 0676-0133a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Charcoal) (Shafter, CA plant) | 0.16 | 0.17* | 0.92 | Pending | 15 | 16* | 16** | 0676-0136a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Stone Gray) (Shafter, CA plant) | 0.18 | 0.19* | 0.93 | Pending | 18 | 19* | 19** | 0676-0137a | Yes | Not Eligible |

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| Program Link | Initial Solar Reflectance | 3 Yr. Solar Reflectance | Initial Thermal Emittance | 3 Yr. Thermal Emittance | Initial SRI | Aged SRI | Aged SRI (Title 24) | CRRC Product ID | Title 24 | LEED v4 Credit |
|--|---------------------------|-------------------------|---------------------------|-------------------------|-------------|----------|---------------------|-----------------|----------|----------------|
| Timberline HDZ® Reflector Series™ and Timberline HDZ® RS (Hickory) (Shafter, CA plant) | 0.18 | 0.18 | 0.91 | 0.89 | 17 | 16 | 17 | 0676-0138 | Yes | Not Eligible |
| Grand Sequoia® Reflector Series and Grand Sequoia® RS - Sagewood (Fontana, CA plant) | 0.19 | 0.19* | 0.96 | Pending | 21 | 21* | 21** | 0676-0139a | Yes | Not Eligible |
| Grand Sequoia® Reflector Series™ and Grand Sequoia® RS - Forest Brown (Fontana, CA plant) | 0.18 | 0.19* | 0.94 | Pending | 18 | 20* | 20** | 0676-0140a | Yes | Not Eligible |
| Grand Sequoia® Reflector Series™ and Grand Sequoia® RS - Sandalwood (Fontana, CA plant) | 0.21 | 0.21* | 0.96 | Pending | 23 | 23* | 23** | 0676-0141a | Yes | Not Eligible |
| Grand Sequoia® Reflector Series™ and Grand Sequoia® RS - Ocean Gray (Fontana, CA plant) | 0.19 | 0.18 | 0.92 | 0.89 | 18 | 16 | 17 | 0676-0142 | Yes | Not Eligible |
| Grand Sequoia® Reflector Series™ and Grand Sequoia® RS - Charcoal (Fontana, CA plant) | 0.16 | 0.17** | 0.94 | Pending | 16 | 17** | 17** | 0676-0143a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series Plus™ and Timberline HDZ® RS+ (Sagewood Plus) (Shafter, CA plant) | 0.20 | Pending | 0.92 | Pending | 20 | Pending | 20** | 0676-0147a | Yes | Not Eligible |
| Timberline Solar HDZ™ (Weathered Wood Plus) (Mt Vernon, IN plant) | 0.20 | Pending | 0.92 | Pending | 20 | Pending | 20** | 0676-0147a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series Plus™ and Timberline HDZ® RS+ (Aged Chesnut Plus) (Shafter, CA plant) | 0.20 | Pending | 0.93 | Pending | 20 | Pending | 20** | 0676-0148a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series Plus™ and Timberline HDZ® RS+ (Hickory Plus) (Shafter, CA plant) | 0.20 | Pending | 0.93 | Pending | 20 | Pending | 20** | 0676-0149b | Yes | Not Eligible |
| Timberline HDZ® Reflector Series Plus™ and Timberline HDZ® RS+ (Stone Gray Plus) (Shafter, CA plant) | 0.20 | Pending | 0.92 | Pending | 20 | Pending | 20** | 0676-0152b | Yes | Not Eligible |
| Timberline Solar HDZ™ (Pewter Gray Plus) (Mt Vernon, IN plant) | 0.20 | Pending | 0.93 | Pending | 20 | Pending | 20** | 0676-0153a | Yes | Not Eligible |
| Timberline HDZ® Reflector Series Plus™ and Timberline HDZ® RS+ (Charcoal Plus) | 0.20 | Pending | 0.93 | Pending | 20 | Pending | 20** | 0676-0153a | Yes | Not Eligible |

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|--------------|--------------------------|-------------------------|---------------------------|------------------------|-------------|----------|---------------------|-----------------|----------|----------------|

*CRRC Rapid Ratings (Interim laboratory-aged values that simulate weathered values which will be replaced with the measured three-year aged values upon completion of the weathering process.)

**These are calculated values per Title 24 requirements and are not reflected on the CRRC website