



Cool Roof Colors Collection

Owens Corning® Shingles Meet Title 24 Requirements



TruDefinition® Duration® COOL Mountainside†

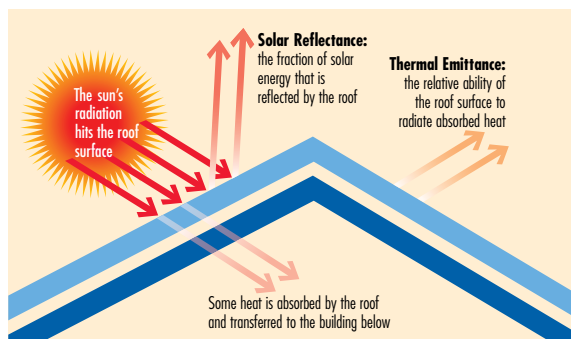
In addition to meeting Title 24 requirements, **Owens Corning®** Cool Roof Colors Collection Shingles meet Property Assessed Clean Energy (PACE) Financing Programs requirements.



Owens Corning® COOL Roof Colors Collection

Meet Prescriptive Cool Roof Requirements in
California Title 24 and Other Compliance Programs

How a roof reacts to heat from the sun.



Source: Cool Roof Rating Council(<http://www.coolroofs.org>)

jurisdictions have adopted provisions, programs and incentives to gain alignment. As of January 1, 2015, Los Angeles was the first major city to require "Cool Roofs" on steep-sloped residential and commercial roofs. This is a direct result of Climate Resolve's "Hot City, Cool Roofs" campaign that pushed for policy and solutions to reduce the urban heat island effect. To encourage the adoption of this provision, the Los Angeles Department of Water and Power (LADWP) is offering a rebate for installation of Cool Roofs. For more information on rebates offered by the LADWP, please visit www.ladwp.com/crp.

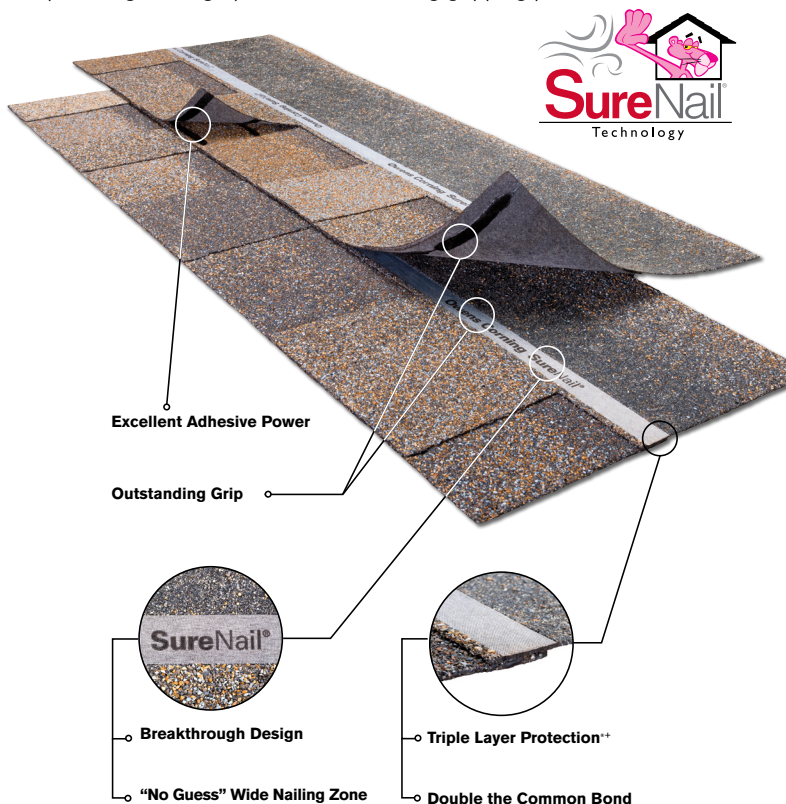
Cool Roofs may help reduce energy use by using shingles with solar-reflecting granules^{††}. The energy efficiency of cool roofs is supported by several Property Assessed Clean Energy (PACE) financing programs.

Since the revised California Energy Code (Title 24, Part 6) that called for increased energy efficiency in homes and commercial buildings went into effect in 2014, local

Trust the Grip of the SureNail® Strip™.

There is a line between a good shingle and a great shingle™.

It's the nailing line on your shingles. The difference between a good shingle and a great shingle is having **SureNail® Technology**. This unique shingle design provides outstanding gripping power.



| Owens Corning® COOL Roof Shingles | Meets ENERGY STAR® Requirements | CRRC Product ID | Warranty Length | Solar Reflectance | Thermal Emittance | Solar Reflectance Index (SRI) |
|---|---------------------------------|-----------------|--------------------------------|-------------------|-------------------|-------------------------------|
| Duration® Premium COOL Frosted Oak^ ^ ^ | | 0890-0005 | Limited Lifetime ^{††} | 0.28 | 0.91 | 30 |
| Duration® Premium COOL Harbor Fog^ ^ ^ | | 0890-0004 | Limited Lifetime ^{††} | 0.30 | 0.90 | 32 |
| Duration® Premium COOL Sage^ ^ ^ | | 0890-0003 | Limited Lifetime ^{††} | 0.29 | 0.88 | 30 |
| Duration® Premium COOL Sunrise ^ ^ ^ | | 0890-0006 | Limited Lifetime ^{††} | 0.28 | 0.91 | 30 |
| TruDefinition® Duration® COOL Forest Brown^ ^ ^ | | 0890-0018 | Limited Lifetime ^{††} | 0.19◊ | 0.90◊◊ | 18 ^{††} |
| TruDefinition® Duration® COOL Mojave^ ^ ^ | | 0890-0017 | Limited Lifetime ^{††} | 0.19◊ | 0.90◊◊ | 18 ^{††} |
| TruDefinition® Duration® COOL Mountainside^ ^ ^ | | 0890-0016 | Limited Lifetime ^{††} | 0.20◊ | 0.90◊◊ | 19 ^{††} |
| TruDefinition® Duration® COOL Night Sky^ ^ ^ | | 0890-0026 | Limited Lifetime ^{††} | 0.18◊ | 0.90◊◊ | 16 ^{††} |
| TruDefinition® Duration® COOL Summerwood^ ^ ^ | | 0890-0015 | Limited Lifetime ^{††} | 0.20◊ | 0.90◊◊ | 19 ^{††} |
| TruDefinition® Duration® Amber^ ^ ^ | | 0890-0009 | Limited Lifetime ^{††} | 0.21◊ | 0.92◊◊ | 21 ^{††} |
| TruDefinition® Duration® Antique Silver^ ^ ^ | | 0890-0011 | Limited Lifetime ^{††} | 0.21◊ | 0.92◊◊ | 21 ^{††} |
| TruDefinition® Duration® Oyster Shell^ ^ ^ | | 0890-0012 | Limited Lifetime ^{††} | 0.22◊ | 0.92◊◊ | 22 ^{††} |
| TruDefinition® Duration® Shasta White^ ^ ^ | | 0890-0008 | Limited Lifetime ^{††} | 0.29 | 0.87 | 29 |
| TruDefinition® Duration® Sierra Gray^ ^ ^ | | 0890-0013 | Limited Lifetime ^{††} | 0.20◊ | 0.92◊◊ | 20 ^{††} |
| Oakridge® Amber | | 0890-0009 | Limited Lifetime ^{††} | 0.21◊ | 0.92◊◊ | 21 ^{††} |
| Oakridge® Antique Silver | | 0890-0011 | Limited Lifetime ^{††} | 0.21◊ | 0.92◊◊ | 21 ^{††} |
| Oakridge® Oyster Shell | | 0890-0012 | Limited Lifetime ^{††} | 0.22◊ | 0.92◊◊ | 22 ^{††} |
| Oakridge® Sand Castle | | 0890-0020 | Limited Lifetime ^{††} | 0.18◊ | 0.92◊◊ | 17 ^{††} |
| Oakridge® Shasta White | | 0890-0002 | Limited Lifetime ^{††} | 0.28 | 0.91 | 30 |
| Oakridge® Sierra Gray | | 0890-0013 | Limited Lifetime ^{††} | 0.20◊ | 0.92◊◊ | 20 ^{††} |
| Supreme® Amber | | 0890-0014 | 25 Years | 0.22◊ | 0.92◊◊ | 22 ^{††} |
| Supreme® Aspen Gray | | 0890-0010 | 25 Years | 0.20◊ | 0.92◊◊ | 20 ^{††} |
| Supreme® Shasta White | | 0890-0001 | 25 Years | 0.29 | 0.92 | 31 |

Owens Corning® shingle products listed above are also found on the CRRC Rated Product directory: <http://coolroofs.org/products/results>.

Duration® Premium COOL Shingles



Frosted Oak†



Harbor Fog†



Sage†



Sunrise†



TruDefinition® Duration® COOL Shingles



Forest Brown†



Mojave†



Mountainside†



Night Sky†



Summerwood†



TruDefinition® Duration® Shingles



Amber†



Antique Silver†



Oyster Shell†



Shasta White†



Sierra Gray†



Oakridge® Shingles



Amber†



Antique Silver†



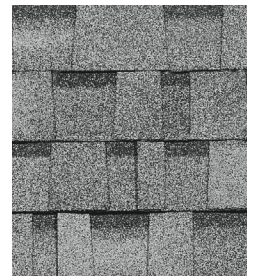
Oyster Shell†



Sand Castle†



Shasta White†



Sierra Gray†

Supreme® Shingles



Amber†



Aspen Gray†



Shasta White†

TOTAL PROTECTION SIMPLIFIED™



Owens Corning® Total Protection Roofing System® integrates engineered

Owens Corning® components that work together to address these three primary performance areas, critical to a high-performance roof, while also making it easy to understand the importance of each. **With Owens Corning, it's easy to confidently deliver total protection, beauty and peace of mind.**



SEAL.

HELPS CREATE A WATER-PROOF BARRIER

Ice & Water Barrier
Synthetic Underlayment



DEFEND.

HELPS PROTECT AGAINST NATURE'S ELEMENTS

Starter Shingles
Shingles
Hip & Ridge Shingles



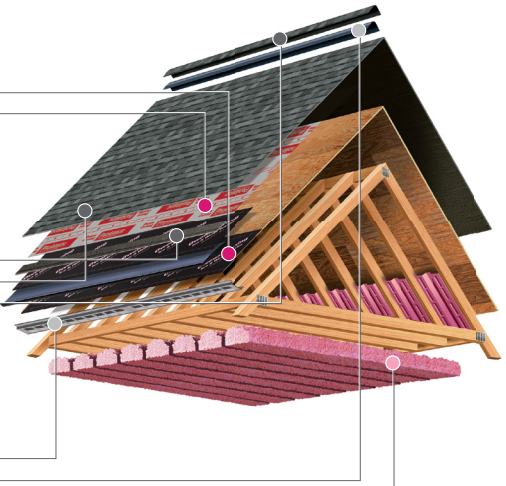
BREATHE.

FOR BALANCED ATTIC VENTILATION

Intake Vents
Exhaust Vents

+ COMFORT.

Add comfort and energy performance with proper attic insulation.



| | Product Attributes | | | | Product Specifications | | | | | Applicable Standards and Codes | | | | | | | | | |
|--|---------------------------------|-----------------------------------|------------------------------------|--|------------------------|----------|---------------------|--------------------|---------------------|--------------------------------|---------------------|--------------------------------------|------------|--------------------------------------|--|--------------------------|---------------|----------------|----------------|
| Owens Corning® Shingle Collection | Warranty Length* | Wind Resistance Limited Warranty* | Algae Resistance Limited Warranty* | TruPROtection® Non-Prorated Limited Warranty* Period | Nominal Size | Exposure | Shingles per Square | Bundles per Square | Coverage per Square | ASTM D228 | ASTM D3018 (Type 1) | ASTM D3161 (Class F Wind Resistance) | ASTM D3462 | ASTM D7158 (Class H Wind Resistance) | ASTM E108/UL 790 (Class A Fire Resistance) | Florida Product Approval | ICC-ES AC438# | UL ER2453-01## | UL ER2453-02## |
| Duration® Premium COOL Shingles | Limited Lifetime ^{§/†} | 130 MPH | 10 Years | 10 Years | 13 ¼" x 39 ⅜" | 5 ⅝" | 64 | 4 | 98.4 sq. ft. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| TruDefinition® Duration® COOL Shingles | Limited Lifetime ^{§/†} | 130 MPH | 10 Years | 10 Years | 13 ¼" x 39 ⅜" | 5 ⅝" | 64 | 3 | 98.4 sq. ft. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| TruDefinition® Duration® Shingles | Limited Lifetime ^{§/†} | 130 MPH | 10 Years*** | 10 Years | 13 ¼" x 39 ⅜" | 5 ⅝" | 64 | 3 | 98.4 sq. ft. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Oakridge® Shingles | Limited Lifetime ^{§/†} | 110/130 MPH** | 10 Years*** | 10 Years | 13 ¼" x 39 ⅜" | 5 ⅝" | 64 | 3 | 98.4 sq. ft. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Supreme® Shingles | 25-Year Limited | 60 MPH | 10 Years*** | 5 Years | 13 ¼" x 39 ⅜" | 5 ⅝" | 65 | 3 | 99.98 sq. ft. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Shasta White color meets ENERGY STAR® requirements for initial solar reflectance of 0.25 and 3-year aged solar reflectance of 0.15; 2013 California Building Energy Efficiency Standards, Title 24, Part 6 requirements; rated by the Cool Roof Rating Council (CRRC).

* See actual warranty for complete details, limitations and requirements.

** 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

† Owens Corning strives to accurately reproduce photographs of shingles. Due to manufacturing variances, the limitations of the printing process and the variations in natural lighting, actual shingle colors and granule blends may vary from the photo. The pitch of your roof can also impact how a shingle looks on your home. We suggest that you view a roofing display or several shingles to get a better idea of the actual color. To accurately judge your shingle and color choice, we recommend that you view it on an actual roof with a pitch similar to your own roof prior to making your final selection. Color availability subject to change without notice. Ask your professional roofing contractor for samples of colors available in your area.

†† SRI calculation based on calculated aged solar reflectance and initial thermal emittance. SRI is calculated using California Energy Commission SRI calculator worksheet and it is calculated in accordance with ASTM E1980.

§ For as long as you own your home.

◇ Aged solar reflectance calculated based on equation provided in California Energy Code (Title 24, Part 6).

◇◇ Indicates initial thermal emittance.

^^ Features Patented SureNail® Technology.

‡ 40-year Limited Warranty on commercial projects.

*** Algae Resistance available on a regional basis.

International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

1998 NIST study.

Underwriters Laboratories Evaluation Service Evaluation Report.

ENERGY STAR® and the ENERGY STAR® mark are registered trademarks of the U.S. Environmental Protection Agency.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners and wood decking.

SureNail® Technology is proprietary with U.S. and foreign protection including U.S. Patent Nos. 6,471,812; 7,836,654; 8,156,704; 8,181,413; 8,240,102; 8,430,983; 8,607,521; 8,623,164; 8,752,351; 8,991,130; 9,121,178; and other patents pending.

SureNail® Technology is not a guarantee of performance in all weather conditions.

SureNail® Technology is available only on Owens Corning Duration® Series Shingles.

+ The amount of Triple Layer Protection® may vary on shingle-to-shingle basis.



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