Take comfort with a Cool Roof.

TruDefinition® Duration® COOL shingles are specially designed to reflect the sun's rays, helping to make your home more comfortable and energy efficient.

Similar to energy-efficient appliances in your home, a “Cool Roof” helps provide energy-saving qualities. TruDefinition® Duration® COOL shingles reflect solar energy, helping to decrease the amount of heat transferred to a home's interior—and the amount of air conditioning needed to keep it comfortable.

TruDefinition® Duration® COOL shingles provide the same outstanding performance, durability and style you expect from Duration Series shingles, with the addition of a specially formulated blend of solar-reflecting granules. With TruDefinition® Duration® COOL shingles, your roof stays cool and so do you.

Trust the Grip of the SureNail® Strip™.

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.
How TruDefinition® Duration® COOL shingles work.

TruDefinition® Duration® COOL shingles utilize a highly reflective granule technology that allows them to reflect the sun’s heat, thereby reducing the heat transferred into the structure.

Solar Reflectance: the fraction of solar energy that is reflected by the roof

Thermal Emittance: the relative ability of the roof surface to radiate absorbed heat

Some heat is absorbed by the roof and transferred to the building below

Cool Roof Rating Council (www.coolroofs.org)

TruDefinition® Duration® COOL shingles feature solar-reflecting granules that help keep roofs cool† for a more comfortable living space below.

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

<table>
<thead>
<tr>
<th>Owens Corning® COOL Roof Shingles</th>
<th>CRRC Product ID</th>
<th>Warranty</th>
<th>Solar Reflectance</th>
<th>Thermal Emittance</th>
<th>Solar Reflectance Index (SRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TruDefinition® Duration® COOL Forest Brown</td>
<td>0890-0018</td>
<td>Limited Lifetime*</td>
<td>0.19◊</td>
<td>0.90◊◊</td>
<td>18†††</td>
</tr>
<tr>
<td>TruDefinition® Duration® COOL Mojave</td>
<td>0890-0017</td>
<td>Limited Lifetime*</td>
<td>0.19◊</td>
<td>0.90◊◊</td>
<td>18†††</td>
</tr>
<tr>
<td>TruDefinition® Duration® COOL Mountainside</td>
<td>0890-0016</td>
<td>Limited Lifetime*</td>
<td>0.20◊</td>
<td>0.90◊◊</td>
<td>19†††</td>
</tr>
<tr>
<td>TruDefinition® Duration® COOL Night Sky</td>
<td>0890-0026</td>
<td>Limited Lifetime*</td>
<td>0.18◊</td>
<td>0.90◊◊</td>
<td>16†††</td>
</tr>
<tr>
<td>TruDefinition® Duration® COOL Summerwood</td>
<td>0890-0015</td>
<td>Limited Lifetime*</td>
<td>0.20◊</td>
<td>0.90◊◊</td>
<td>19†††</td>
</tr>
</tbody>
</table>
Product Attributes

**Warranty Length***
Limited Lifetime‡ (for as long as you own your home)

**Wind Resistance Limited Warranty***
130 MPH

**Algae Resistance Limited Warranty***
10 Years

**TruPROtection Non-Prorated Limited Warranty** Period
10 Years

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**TruDefinition® Duration® COOL Shingles Product Specifications**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>13⅛” x 39⅜”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure</td>
<td>5⅜”</td>
</tr>
<tr>
<td>Shingles per Square</td>
<td>64</td>
</tr>
<tr>
<td>Bundles per Square</td>
<td>3</td>
</tr>
<tr>
<td>Coverage per Square</td>
<td>98.4 sq. ft.</td>
</tr>
</tbody>
</table>

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**Applicable Standards and Codes**

- 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)
- ICC-ES AC438*
- UL ER2453-01##
- California Building Energy Efficiency Standards, Title 24, Part 6 requirements; rated by the Cool Roof Rating Council (CRRC).

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**Notes:**

- † The amount of Triple Layer Protection* may vary on shingle-to-shingle basis.
- * See actual warranty for complete details, limitations and requirements.
- † Owens Corning Roofing 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.
- †† Estimated roof surface temperature reduction based on 1998 NIST study; Analytical Study of Residential Buildings with Reflective Roofs. A temperature reduction is representative of a change from a typical roof to a Cool Roof (solar reflectance 10 to 25) in most climates.
- ††† 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.
- ‡ 40-Year Limited Warranty on commercial projects.
- ◊ Indicates initial thermal emittance.
- ▲ 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; 8,166,704; 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 available only on Owens Corning® Duration® Series Shingles.
- SureNail® Technology is not a guarantee of performance in all weather conditions. Shingles are algae resistant to help control the growth of algae and discoloration.

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**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.