Using cool roof technology is one of the easiest, most cost-effective ways to lower energy consumption.

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

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

### Solar Reflectance

- **Flintlastic SA Granule surfaced self-adhering cap membrane;**
  - ASTM: D6164
  - Initial: 0.71
  - Aged: 0.62**
- **Cap CoolStar highly stress resilient with pliable SBS modified bitumen and polyester reinforcement;**
  - ASTM: D6095
  - Initial: 0.90
  - Aged: 0.90**

### Thermal Emittance

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>ASTM</th>
<th>Initial (SRI)</th>
<th>Aged (SRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flintlastic SA Granule surfaced self-adhering cap membrane;</strong></td>
<td></td>
<td>D6164</td>
<td>0.71</td>
<td>0.62**</td>
</tr>
<tr>
<td><strong>Cap CoolStar highly stress resilient with pliable SBS modified bitumen and polyester reinforcement;</strong></td>
<td></td>
<td>D6095</td>
<td>0.90</td>
<td>0.90**</td>
</tr>
</tbody>
</table>

### APP-FoRmed Bitumen CAP SHEET

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>ASTM</th>
<th>Initial</th>
<th>Aged</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flintlastic GTS Granule surfaced self-adhering cap membrane;</strong></td>
<td></td>
<td>D6164</td>
<td>0.71</td>
<td>0.62**</td>
</tr>
<tr>
<td><strong>GTA CoolStar offers the strength and UV resistance of APP Grade G, modified bitumen with the stress resistance of a quality polyester reinforcement- for torch applications</strong></td>
<td></td>
<td>D6222</td>
<td>0.92</td>
<td>0.91**</td>
</tr>
<tr>
<td><strong>Flintlastic® GTA Granule surfaced, fire retardant self-adhering cap membrane;</strong></td>
<td></td>
<td>D6163</td>
<td>0.71</td>
<td>0.62**</td>
</tr>
<tr>
<td><strong>GTA-FR offers the strength and UV resistance of APP Grade G, modified bitumen with the stress resistance of Type I polyester reinforcement for torch applications</strong></td>
<td></td>
<td>D6163</td>
<td>0.71</td>
<td>0.62**</td>
</tr>
</tbody>
</table>

### Built-Up Roofing (BUR)

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>ASTM</th>
<th>Initial</th>
<th>Aged</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MS Cap Sheet Granule surfaced non-modified asphalt cap sheet membrane;</strong></td>
<td></td>
<td>D6164</td>
<td>0.69</td>
<td>0.68**</td>
</tr>
</tbody>
</table>

*Made to Order, 300 Roll Minimum Order Requirement  **CRRC Rapid Rating
Using cool roof technology is one of the easiest, most cost-effective ways to lower energy consumption.

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

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

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### Self-Adhered SBS-Modified Bitumen Cap Sheet

| Product Name | Description | ASTM | Solar Reflectance | Radiative Property | SRI
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Certaintec SBS Cap Sheet</td>
<td>Granule surfaced self-adhering cap membrane, highly stress resilient with pliable SBS modified bitumen and polyester reinforcement</td>
<td>D6164</td>
<td>0.71</td>
<td>0.64**</td>
<td>0.90</td>
</tr>
</tbody>
</table>

### APP-Modified Bitumen Cap Sheet

| Product Name | Description | ASTM | Solar Reflectance | Radiative Property | SRI
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Certainec SBS Cap</td>
<td>Granule surfaced cap membrane, combines the strength of a heavy duty reinforced membrane and the pliability of SBS modified bitumen</td>
<td>D6095</td>
<td>0.71</td>
<td>0.62**</td>
<td>0.90</td>
</tr>
</tbody>
</table>

### SBS-Modified Bitumen Cap Sheet

| Product Name | Description | ASTM | Solar Reflectance | Radiative Property | SRI
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MS Cap Sheet</td>
<td>Granule surfaced non-modified asphalt membrane, commonly specified as weathering layer for hot asphalt applied backup roof assemblies in the low cost category</td>
<td>0.69</td>
<td>0.65**</td>
<td>0.90</td>
<td>0.84**</td>
</tr>
</tbody>
</table>

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**Certainteed**

Energy-Saving Reflective Roof Surfaces

CoolStar®

- Reflective Surfaces
- Solar Reflectance
- Thermal Emittance
- SRI

- CoolStar Touch-up Granules
- Made to Order, 300 Roll Minimum Order Requirement
- CRRC Rapid Rating

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*Made to Order, 300 Roll Minimum Order Requirement
**CRRC Rapid Rating

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Some heat is absorbed by the roof and transformed to the building below.
as compared to standard roofs. Significantly greater radiative property values and emit thermal radiation. "Cool roofs" have because they describe its ability to reflect the solar reflectance and thermal emittance. A black, aged solar reflectance (SR) value of > 0.63 or an aged Solar Reflectance Index (SRI) of > 75. The SRI is based on the Solar Reflectance and Thermall Emittance of a product. A black, non-reflective roof has an SRI of 0; the highest possible value for SRI is 100, indicating maximum reflectivity. The higher the SRI, the cooler the surface will be. It is generally industry accepted that high-reflective low-slope roofs can help reduce energy consumption by at least 30%.

What are the benefits of having a cool roof?

Cool roofs are one of several strategies building owners can use to increase occupant comfort, and reduce energy consumption/CO2 emissions. Low-slope membranes surfaced with coolstar granules have been shown to reduce thermal movement and stress on the roof system, extending the lifetime of a properly maintained roof. In urban areas, replacing dark colored surfaces with more reflective surfaces helps mitigate the "heat island effect," a phenomenon that makes urban areas significantly warmer than surrounding rural areas because of large expanses of dark surfaces (pavements, roofs) increased temperature contributes to photochemical reactions that lead to the formation of smog. Insulating cool roofs contributes toward increased urban air quality. It’s important to note, buildings and homes function as a system; the reflectivity of the roof is only one component. Energy use is also affected by the insulation and air tightness of the building’s envelope.

When is a cool roof needed?

Some states and municipal building codes contain cool roof requirements. CertainTeed recommends contacting your local building official to understand the specific requirements before starting a new building, re roofing or recover project.

Areas with Cool Roof Policies and/or Incentives

For details on programs in your area, visit www.dsireusa.org

Is a Cool Roof right for every building?

Climate is an important consideration when calculating the benefits of a cool roof. While significantly reducing the demand for energy associated with cooling (usually electricity), a cool roof could potentially lead to a slightly increased need for heating energy in winter. This is because a cool roof keeps your "Is" cooler year-round. To calculate what the savings may be in your area, Oak Ridge National Laboratory has an easy to use on-line calculator: https://web.oml.gov/csv/buildings/cools/coolroof/

Please remember that environmental benefits may outweigh economic benefits for some consumers. Changes in the types of fuels used for heating vs. cooling (and their associated environmental impacts) and the reduction in Urban Heat Island effect may be more important to some building owners than utility bills alone. In those cases, cool roofs are the obvious choice. Moisture management is a key aspect of any roof assembly, especially for reflective roofs as water dissipation is less efficient beneath cooler surfaces. Sealing roof and ceiling penetrations that could allow moisture transmission to the interior properly ventilating attic, and installing air- and vapor-retarders are effective strategies to limit moisture damage. Just like other building assemblies, proper detailing and installation are key to ensuring durability and long-term performance.

Do reflective roofs retain cool over time?

Certainteed’s CoolStar membranes are engineered to deliver long-term performance without significant fading or color change. An important benefit of modified bitumen cap sheets is that its granules tend to be "self-cleaning" when sufficient positive surface drainage occurs, helping to keep the roof covering clean and reflective. In areas where rainfall is infrequent, CertainTeed recommends waiting off the roof as part of a routine maintenance program to regain its higher solar reflectance.

Many other bright white, reflective low- slop solutions such as TPO membranes and silicone coatings are valued for high initial reflectivity but are known relatively quickly for a cool roof could potentially lead to a slightly increased need for heating energy in winter. When is a cool roof required?

One state or local municipality doesn’t require a cool roof, some power companies may offer rebates for qualified roofing products. Additionally voluntary green building rating systems such as LEEDS® give credit toward building certification for installing a cool roof product meeting the minimum the SRI threshold.

In urban areas, replacing dark colored surfaces with more reflective surfaces helps mitigate the "heat island effect," a phenomenon that makes urban areas significantly warmer than surrounding rural areas because of large expanses of dark surfaces (pavements, roofs) increased temperature contributes to photochemical reactions that lead to the formation of smog. Insulating cool roofs contributes toward increased urban air quality. It’s important to note, buildings and homes function as a system; the reflectivity of the roof is only one component. Energy use is also affected by the insulation and air tightness of the building’s envelope.

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Many other bright white, reflective low- slop solutions such as TPO membranes and silicone coatings are valued for high initial reflectivity but are known relatively quickly for a cool roof could potentially lead to a slightly increased need for heating energy in winter.
What makes a roof “cool?”

Building and home interiors stay cooler when the roof surface reflects the sun’s solar radiation during summer days. The ability of a surface to reflect solar radiation is called “solar reflectance.” Solar radiation that is not reflected is absorbed by the roof and will result in an increase in roof temperature.

Another way your hot roof surface can efficiently cool itself is by “emitting” thermal radiation. This property is called “thermal emittance.” The higher the thermal emittance, the more the surface can transfer absorbed heat to the atmosphere. One of the benefits of asphaltic low-slope membranes is their high thermal emittance, which enables their surfaces to cool themselves faster.

The solar reflectance and thermal emittance of a surface are highly “interdependent” because they describe its ability to reflect and emit thermal radiation. Materials that have significantly greater radiative property values as compared to standard roofs.

CoolStar Granules

Certainteed’s CoolStar granules utilize naturally occurring aggregates processed to ultra-high brightness. These bright white granules are 100% opaque to UV radiation, protecting the asphaltic membrane from UV degradation while maintaining granule adhesion with superior solar reflectance. Membranes surfaced with CoolStar granules have passed repeated accelerated outdoor weathering tests, proving their durability and retained solar reflectance.

Works with a range of roof systems.

- Built-up roofing (BUR)
- SBS modified bitumen
- APP modified bitumen

For more details on CoolStar granules, visit www.certainteed.com/products/coolstar.

Is a Cool Roof right for every building?

Climate is an important consideration when calculating the benefits of a cool roof. While significantly reducing the demand for energy associated with cooling (usually electricity), a cool roof could potentially lead to a slightly increased need for heating energy in winter. This is because a cool roof keeps your “lid” cooler year-round. To calculate what the savings may be in your area, Oak Ridge National Laboratory has an easy to use on-line calculator: https://web.ornl.gov/sci/buildings/coolroof/coolroof.html

Please remember that environmental benefits may outweigh economic benefits for some consumers. Changes in the types of fuels used for heating vs. cooling (and their associated environmental impacts) and the reduction in Urban Heat Island effect may be more important to some building owners than utility bills alone. In those cases, cool roofs are the obvious choice.

CoolStar roofing products can be used to comply with the 2019 California Title 24 Part 6 Cool Roof Requirements.

California Title 24

This chapter, Title 24 prescriptive standards, a low-slope roofing surface must achieve either an averaged Solar Reflectance (SR) value of > 0.63 OR an averaged Solar Reflective Index (SRI) of > 75. The SRI is a calculation based on the Solar Reflectance and Thermal Emittance of a product. A black, non-reflective roof has an SRI of 0; the highest possible value for SRI is 100, indicating maximum reflectivity. The higher the SRI, the cooler the surface will be.

It is generally industry accepted that highly reflective low-slope roofs can help reduce energy consumption by at least 30%.

What are the benefits of having a cool roof?

Cool roofs are one of several strategies building owners can use to increase occupant comfort, and reduce energy consumption/cost. Low-slope roofs that reflect solar radiation and reduce the solar load on the building’s envelope can result in lower roof temperatures also mean reduced energy consumption by at least 30%.

Areas with Cool Roof Policies and/or Incentives

Areas with Cool Roof Policies and/or Incentives

Cool roofs are one of several strategies building owners can use to increase occupant comfort, and reduce energy consumption/cost. Low-slope roofs that reflect solar radiation and reduce the solar load on the building’s envelope can result in lower roof temperatures also mean reduced energy consumption by at least 30%.

Do reflective roofs last all cool time over? CertainTeed’s CoolStar membranes are engineered to deliver long-term performance without significant fading or color change. An important benefit of modified bitumen cap sheets is that its granules tend to be “self-cleaning” when sufficient positive surface drainage occurs, helping to keep the roof covering clean and reflective. In areas where rain is infrequent, CertainTeed recommends hose-ing off the roof as part of a routine maintenance program to regain its higher solar reflectance.

Many other bright white, reflective low- slope solutions such as TPO membranes and silicone coatings, are valued for high initial reflectivity but are known relatively quickly to pick up significantly reducing their reflective properties and performance benefits.

Over time, soiling of the roof occurs, on any low-slope roof, especially where water ponds, decreases in its reflectance. This is why the California Title 24 standards are based off aged values. These values are ultimately determined by a national average performance measurement after a product has been in the field for three years, though a Rapid Ratings test can be performed to temporarily assign a predictive aged value while actual aging takes place.
What makes a roof “cool”?

Building and home interiors stay cooler when the roof surface reflects the sun’s solar radiation during summer days. The ability of a surface to reflect solar radiation is called “solar reflectance.” Solar radiation that is not reflected is absorbed by the roof and will result in an increase of roof temperature. One of the benefits of having a cool roof is by “emitting” thermal radiation. This property is called “thermal emittance.” Solar radiation that is not reflected is absorbed by the roof and will result in an increase of roof temperature. One of the benefits of having a cool roof is by “emitting” thermal radiation. This property is called “thermal emittance.”

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Certainteed CoolStar granules utilize naturally occurring aggregates processed to ultra-high brightness. These bright white granules are 100% opaque to UV radiation, protecting the asphaltic membrane from UV degradation while maintaining granule adhesion with superior solar reflectance. Membranes surfaced with CoolStar granules have passed repeated accelerated outdoor weathering tests, proving their durability and retained solar reflectance.

Walks with a range of roof systems.

- Built-up roofing (BUR)
- SBS modified bitumen
- APP modified bitumen
- Self-adhering modified bitumen

In urban areas, replacing dark colored surfaces with more reflective surfaces helps mitigate the “heat island effect,” a phenomenon that makes urban areas significantly warmer than surrounding rural areas because of large expanses of dark surfaces (pavements, roofs) increased temperatures contribute to photochemical reactions that lead to the formation of smog. Installing cool roofs contributes toward increased urban air quality.

It’s important to note, buildings and homes function as a system; the reflectivity of the roof is only one component. Energy use is also affected by the insulation and air tightness of the building’s envelope.

When is a cool roof needed?

Some state and municipal building codes contain cool roof requirements. Certainteed recommends consulting your local building official to understand the specific requirements before starting a new build, reroofing or recovery project.

Areas with Cool Roof Policies and/or Incentives

For details on programs in your area, visit www.dsireusa.org

Is a Cool Roof right for every building?

Climate is an important consideration when calculating the benefits of a cool roof. While significantly reducing the demand for energy associated with cooling (usually electricity), a cool roof could potentially lead to a slightly increased need for heating energy in winter. This is because a cool roof keeps your “lid” cooler year-round. To calculate what the savings may be in your area, Oak Ridge National Laboratory has an easy to use on-line calculator: https://web.ornl.gov/sci/buildings/tools/cooldr/-coolroof/

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CoolStar roofing products can be used to comply with the 2019 California Title 24 Part 6 Cool Roof Requirements.

To meet California Title 24 prescriptive standards, a low-slope roofing surface must achieve either an aged Solar Reflectance (SR) value of ≥ 0.63 OR an aged Solar Reflective Index (SRI) of ≥ 75. The SRI is a calculation based on the Solar Reflectance and Thermal Emittance of a material. A black, non-reflective roof has an SRI of 0; the highest possible value for SRI is 100, indicating maximum reflectivity. The higher the SRI, the cooler the surface will be.

It is generally industry accepted that high-reflective low-slope roofs can help reduce energy consumption by at least 30%.

What are the benefits of having a cool roof?

Cool roofs are one of several strategies building owners can use to increase occupant comfort, and reduce energy consumption/cost. Lowering roof temperatures can result in reduced thermal movement and stress on the roof system, extending the lifetime of a properly maintained roof.

CoolStar roofing products are engineered to deliver long-term performance without significant fading or color change. An important benefit of modified bitumen cap sheets is that its granules tend to be “self-cleaning” when sufficient positive surface drainage occurs, helping to keep the roof covering clean and reflective. In areas where rainfall is infrequent, CertainTeed recommends hosing off the roof as part of a routine maintenance program to regain its solar reflectance. Many other bright white, reflective low-slope solutions such as TPO membranes and silicone coatings, are valued for high initial reflectivity but are known relatively quickly dirt pick-up, significantly reducing their reflective properties and performance benefits.

Certainteed CoolStar membranes are specifically engineered to comply with the California Title 24 Standards and maintain their reflective properties and performance benefits for longer. Over time, soiling of the roof occurs, on any low-slope rooftop, especially where water ponds, decreasing its solar reflectance. This is why it is important to note, buildings and homes function as a system; the reflectivity of the roof is only one component. Energy use is also affected by the insulation and air tightness of the building’s envelope.

Do reflective roofs retain cool over time?

Certainteed’s CoolStar membranes are engineered to deliver long-term performance without significant fading or color change. An important benefit of modified bitumen cap sheets is that its granules tend to be “self-cleaning” when sufficient positive surface drainage occurs, helping to keep the roof covering clean and reflective. In areas where rainfall is infrequent, CertainTeed recommends hosing off the roof as part of a routine maintenance program to regain its solar reflectance. Many other bright white, reflective low-slope solutions such as TPO membranes and silicone coatings, are valued for high initial reflectivity but are known relatively quickly dirt pick-up, significantly reducing their reflective properties and performance benefits.

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USING COOL ROOF TECHNOLOGY IS ONE OF THE EASIEST, MOST COST-EFFECTIVE WAYS TO LOWER ENERGY CONSUMPTION.

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

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<th>Self-Adhered</th>
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<th>Built-Up Roofing (BUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Description</td>
<td>ASTM</td>
</tr>
<tr>
<td>Flintlastic SA Granule surfaced self-adhering cap membrane; combines the strength of a heavy-duty fiberglass reinforcement and the pliability of SBS modified bitumen</td>
<td>D6164</td>
<td>0.70</td>
</tr>
<tr>
<td>Cap CoolStar highly stress resilient with pliable SBS modified bitumen</td>
<td>D6165</td>
<td>0.67**</td>
</tr>
<tr>
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<td>D6163</td>
<td>0.67**</td>
</tr>
<tr>
<td>CoolStar cap duty fiberglass reinforcement and the Type I pliability of SBS modified bitumen for torch applications</td>
<td>UL 2218, Class 4</td>
<td></td>
</tr>
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CoolStar® Energy-Saving Reflective Roof Surfaces

CoolStar touch-up granules are available in 5-gallon buckets for use on asphalt bleed-out areas.