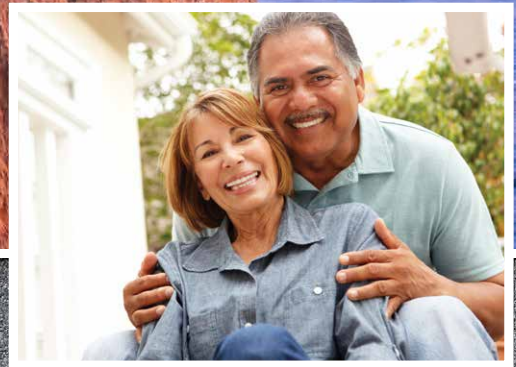




# SOLAR REFLECTIVE SHINGLES

Reduce Roof Heat & Energy Demands  
Extend the Life of the Shingle  
Comply with California Cool Roof Requirements

 **Malarkey**  
Roofing Products®



# WHY SOLAR REFLECTIVE SHINGLES?

When solar energy hits the roof surface and is absorbed, it raises the temperature of the shingles. Roof cooling shingles reflect solar energy to reduce roof heat, helping...

## REDUCE ENERGY COSTS

The heat from a roof can sometimes transfer to the home, potentially driving up the energy costs to cool it. According to the Cool Roof Rating Council (CRRC), the average energy savings for a roof can be up to 15% of total cooling costs.

## EXTEND ROOF LIFE

Heat ages shingles. A cooler roof slows thermal aging of the shingles, helping the roof last longer.

## LESSEN URBAN HEAT ISLAND EFFECT

Urban areas often experience an elevated temperature versus rural environments due to the larger number of heat-absorbing surfaces like roads, roofs, and buildings, called the *Urban Heat Island Effect*. According to the EPA, ‘heat islands’ can affect communities by increasing peak energy demand, air conditioning costs, air pollution, and greenhouse gas and CO2 emissions.

## COMPLY WITH CALIFORNIA ENERGY CODE

Reflective shingles of at least a 20 SRI are required to comply with California Energy Code Title 24 Part 6 and Los Angeles County Title 31, Cool Roof Requirements.

## NEX® RUBBERIZED ASPHALT FORMULA



High-Grade Asphalt  
Waterproofing & Granule Adhesion



Upcycled Rubber Polymers  
Durability, Aging, Sustainability



Upcycled Plastic Polymers  
Strength & Sustainability



Synthetic Rubber Polymers (SBS)  
Strength, Aging, Flexibility

## Color Options

See shingle colors on a roof, or your roof, at [www.malarkeyroofing.com/roof-designer](http://www.malarkeyroofing.com/roof-designer)

Distributed from South Gate, CA

- (H)** Highlander®  
**(HC)** Highlander® Cool
- (V)** Vista®  
**(VC)** Vista® Cool

All swatches to the right are CRRC Rated Products.



## Reflective Granule Technology

Shingles are assigned an SRI (Solar Reflective Index) rating by the Cool Roof Rating Council (CRRC). The higher the SRI, the greater the solar reflectivity, meaning your roof stays cooler. An SRI of at least 20 is needed to comply with California Energy Code Title 24 Part 6 and Los Angeles County Title 31, Cool Roof Requirements.

Light shingle colors often naturally meet an SRI rating of 20. But for darker colors, it’s more difficult, so we incorporate 3M™ Cool Roofing Granules which include a special coating that enhances solar reflectivity. This unique technology can help a darker colored shingle reflect 20-25% of the sun’s energy, compared to only 3-12% for traditional black granules.

## CRRC Solar Reflectance Chart

|              | SRI<br>[3 YEAR] | CRRC<br>Product ID |
|--------------|-----------------|--------------------|
| Highlander®  |                 |                    |
| Golden Amber | 21              | 0850-0024          |
| Ivory Mist   | 26              | 0850-0055          |
| Sienna Blend | 20              | 0850-0025          |
| Silverwood   | 21              | 0850-0065          |

|                  |     |            |
|------------------|-----|------------|
| Highlander® Cool |     |            |
| Burlwood         | 22  | 0850-0057  |
| Moonlit Black    | 20  | 0850-0066  |
| Riverstone Grey  | 20* | 0850-0067a |
| Willow Wood      | 20  | 0850-0028  |

|              |    |           |
|--------------|----|-----------|
| Vista®       |    |           |
| Sienna Blend | 20 | 0850-0025 |
| Silverwood   | 20 | 0850-0051 |

|                 |     |            |
|-----------------|-----|------------|
| Vista® Cool     |     |            |
| Moonlit Black   | 20  | 0850-0066  |
| Riverstone Grey | 20* | 0850-0067a |
| Willow Wood     | 20  | 0850-0028  |

\* Solar reflectance data calculated using the California Energy Commission SRI Calculation Worksheet.



GOLDEN AMBER (H)



IVORY MIST (H)



SIENNA BLEND (H, V)



SILVERWOOD (H, V)



BURLWOOD (HC)



MOONLIT BLACK (HC, VC)



RIVERSTONE GREY (HC, VC)



WILLOW WOOD (HC, VC)

# Made Better to Last Longer, & More Sustainable

Malarkey shingles are made with our patented **NEX® Polymer Modified (SBS Rubberized) Asphalt**, an innovative technology that infuses rubber and plastic polymers to strengthen the asphalt core of the shingle for **superior impact resistance, granule adhesion, all-weather resilience, and aging longevity**.

Our **NEX® Rubberized Asphalt** formula is also sustainable. **Upcycled polymers from used tires and plastics** improve durability and aging resistance, while helping reduce landfill waste. **Smog-Reducing Granules** help clean the air of emission pollutants. And **Solar Reflective Granules** help cool the roof.

*Sustainability without sacrificing performance.*



## ♣ NEX® RUBBERIZED ASPHALT

Asphalt core of shingle is strengthened with SBS rubber polymers for superior all-weather resilience and aging resistance, then formed around a fiberglass mat, for **up to 25% greater tear strength than the industry standard (ASTM D3462), and up to Class 4 impact rating (highest rating possible)**. *Insurance discounts may apply.*



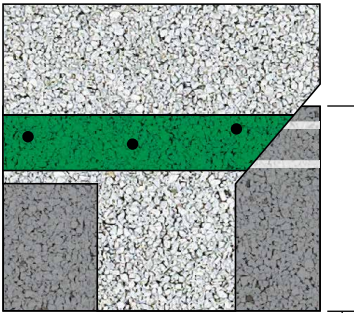
It takes over 6,000 nails to secure a roof. Even one out of place can cause a leak.

## ♣ THE ZONE® LARGER NAILING AREA

**Up to 2X larger nailing area** dramatically improves installation speed and accuracy, and helps ensure nails secure BOTH shingle layers – critical for preventing blow-offs and delamination.

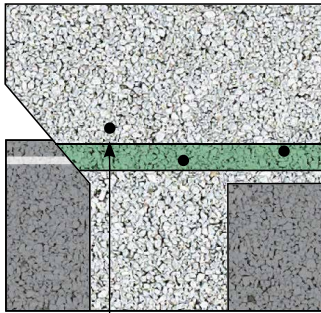
### Top View:

Malarkey Shingle



Wider

Standard Shingle



Longer

Nail misses back layer.

## ♣ UPCYCLED RUBBER & PLASTIC

Polymers from recycled rubber and plastic improve shingle durability and aging resistance, while helping reduce landfill waste. **Each average-sized roof (30 squares) upcycles the equivalent of ~4 rubber tires and ~2,900 plastic grocery bags.**<sup>1</sup>

## ♣ LONGER & TAPERED BACKING SHIM

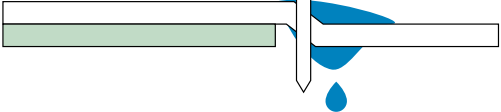
**Longer, tapered shingle backing** helps ensure nails penetrate BOTH shingle layers [critical for preventing blow-offs], promotes water flow, and helps prevent rain from blowing under the shingle and pooling (troughing), waiting to leak down a misplaced nail.

### Side View:

Malarkey Shingle



Standard Shingle



Nail misses back shingle layer causing leak.

## ♣ EXTRA, RUBBERIZED RAIN SEAL

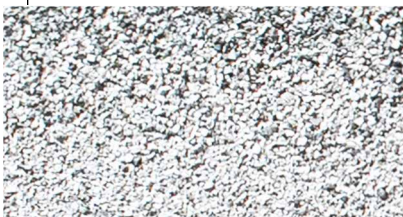
**2X the rain seals of standard shingles**, rubberized with SEBS rubber polymers to improve adhesion, resist dry-out, and provide extra leak protection.

## EXTRA, RUBBERIZED LAMINATE BOND

**Up to 50% more laminate bonds than standard shingles**, rubberized with SEBS rubber polymers to improve adhesion, resist dry-out, and provide extra protection against shingle delamination.

## LARGE, RUBBERIZED WIND SEAL

Large wind seal, rubberized with SEBS rubber polymers to improve seal-down adhesion and resist dry-out, helps prevent wind from lifting the shingle up and off the roof. **Wind warranty up to 130 mph.**



## CERAMIC-COATED GRANULES

3M™ Roofing Granules add color vibrancy and protect the shingle from hail impact and UV aging, while NEX® Rubberized Asphalt dramatically improves granule retention. **Up to 65% greater granule adhesion than the industry standard (ASTM D3462).**



## ♣ SMOG-REDUCING GRANULES

Blend of photocatalytic 3M™ Smog-Reducing Granules harness sunlight to actively clean the air of emission pollutants. **Each average-sized roof (30 squares) has the smog-fighting potential of ~2 trees.**<sup>2</sup>



## SOLAR REFLECTIVE GRANULES

Light colors naturally **reflect the sun's rays to reduce heat**. For darker colors, 3M™ Cool Roofing Granules employ a special coating that enhances solar reflectivity.



## Sustainable Performance®

Superior Performance  
& Better for the Environment

### CRAFTSMANSHIP

Up to 2X Larger Nailing Area  
Up to 50% More Adhesive Bonds  
2X Rain Seals

### PERFORMANCE

Up to 25% Greater Tear Strength  
Up to 65% Greater Granule Adhesion  
Up to Class 4 Impact Rating

### SUSTAINABILITY (per roof) <sup>1</sup>

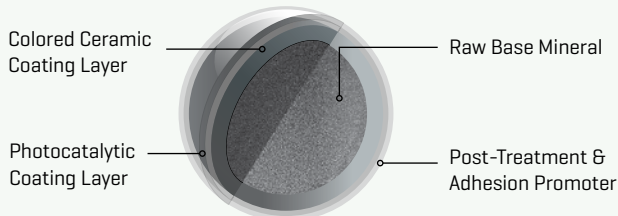
Upcycles ~4 Rubber Tires  
Upcycles ~2,900 Plastic Bags  
Cleans Smog Pollution like ~2 Trees  
Helps Reduce Energy Demand



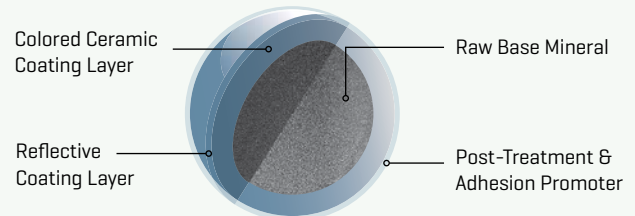
|                                                          | VERY GOOD                       | BETTER                |
|----------------------------------------------------------|---------------------------------|-----------------------|
| Solar Reflective Architectural Shingles Comparison Chart | Highlander®<br>Highlander® Cool | Vista®<br>Vista® Cool |
| Rubberized Asphalt Technology                            | Yes                             | Yes                   |
| Impact Rating [Class 4 Highest]                          | Class 3                         | Class 4               |
| Fire Rating [Class A Highest]                            | Class A                         | Class A               |
| Tear Strength*                                           | +10%                            | +25%                  |
| Thickness                                                |                                 | +10%                  |
| Sustainability [assumes roof of 30 squares]              |                                 |                       |
| ~Upcycled Rubber Tires                                   | 4                               | 5                     |
| ~Upcycled Plastic Bags                                   | 2,900                           | 3,200                 |
| ~Trees 'Planted' <sup>2</sup>                            | 2                               | 2                     |
| Cost                                                     | \$                              | \$\$                  |
| Warranties*:                                             |                                 |                       |
| Shingle Warranty                                         | Limited Lifetime                | Limited Lifetime      |
| Non-Prorated Period [years]                              | 10                              | 15                    |
| Algae Warranty                                           | NA                              | NA                    |
| Standard Wind Warranty [mph / kph / years]               | 110 / 177 / 15                  | 110 / 177 / 15        |
| Enhanced Wind Warranty [mph / kph / years]               | 130 / 209 / 15                  | 130 / 209 / 15        |

\*Versus standard shingles, as measured per ASTM D3462.

### Smog-Reducing Granules



### Cool Roofing Granules



MEETS CSA A123.5  
STANDARDS



<sup>1</sup> Assumes roof of 30 squares using Vista® shingles.

<sup>2</sup> Assumes roof of 30 squares. Source: Lawrence Berkeley National Laboratory and 3M.

**TEST COMPLIANCE:** All Shingles – ASTM D7158 Class H, ASTM D3462, ASTM D3161 Class F, ASTM D3018 Type I, ASTM E108 Class A Fire Rating, CSA A123.5, ICC Approval – ESR-3150, and ICC-ES AC438. UL 2218 Class 4 (Vista® and Vista® Cool) and UL 2218 Class 3 (Highlander® and Highlander® Cool). CRRC-rated colors featured in this trifold can be used to comply with California Energy Code (CEC) Title 24, Part 6 and Los Angeles County, California Title 31 Cool Roof Requirements (Highlander® Cool and Vista® Cool in Moonlit Black, Riverstone Grey, and Willow Wood, Highlander® Cool in Burlwood, Highlander® and Vista® in Sienna Blend and Silverwood, and Highlander® in Golden Amber and Ivory Mist).

**DISCLAIMER:** Photographs of shingles may not accurately represent their true color or the variations of color blends that will appear on the roof. **Before installation, five or six shingles should be laid out and reviewed for desired color.** Colors and specifications subject to change without notice. Shingle colors not available in all regions or product lines.

+ For complete warranty information, please reference Malarkey's **Shingle and Accessory Warranty** available at [www.malarkeyroofing.com/warranties](http://www.malarkeyroofing.com/warranties).

[www.malarkeyroofing.com](http://www.malarkeyroofing.com)

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Malarkey is part of the Amrize family of brands