

# IMPACT RESISTANT SHINGLES

**THE CALM DURING THE STORM**



# Roofing that outperforms Mother Nature

In 1996 the Institute of Business and Home Safety (IBHS) and the Underwriter's Laboratory (UL) developed the UL 2218 classification, a national standard for roof impact resistance by rating materials from Class 1 through 4, based on their resistance to the steel ball simulation test. A Class 4 rating is the toughest.

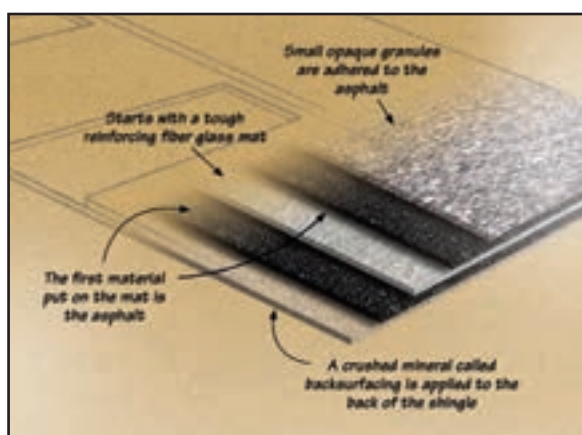
Rating	Description
1	Sample did not crack when hit twice in the same spot by a steel ball 1.25 inches in diameter.
2	Sample did not crack when hit twice in the same spot by a steel ball 1.50 inches in diameter.
3	Sample did not crack when hit twice in the same spot by a steel ball 1.75 inches in diameter.
4	Sample did not crack when hit twice in the same spot by a steel ball 2.00 inches in diameter.



# Wind. Rain. Sleet. Heat.

CertainTeed's line of impact resistant products ensure peace of mind—and unflappable protection—even during the harshest conditions.

Built from the industry's toughest materials, our impact resistant shingles defend against updrafts, crosswinds and all manner of gusty, blustery weather.



As hail is propelled onto a non-impact resistant shingle, it knocks off granules of the shingle's outer layer—exposing it to UV damage that can degrade the roof and make it vulnerable to leaks.



When severe weather hits, don't leave the safety of your home up in the air.

**Be prepared. Be Certain.**

# Unrelenting protection... that's proven

Our impact resistant shingles are tough. And we've got the evidence to prove it.

Each shingle in our line is made from materials that have achieved the highest impact resistance rating—Class 4—during testing performed with steel balls simulating 90-mph hailstones of varying sizes.

### Class 4 UL 2218 Impact Test

The UL test drops a steel ball from 20 ft. to see if the material will crack. On a standard shingle cracks and ruptures will appear. On a Class 4 rated shingle, no evidence of cracking or tearing is present.

The diagram shows three scenarios of a steel ball impacting a shingle. In the first, the ball is shown above the shingle. In the second, the ball has just impacted, and a crack is visible in the shingle. In the third, the ball has impacted and the shingle is intact with no visible damage.

- The test evaluates the effect of impact from the steel ball at locations on the assembly selected to be most vulnerable, including the edges, corners, unsupported sections and joints.
- Steel balls are dropped from heights of 12 feet for a 1.25-inch ball, to 20 feet for a 2-inch ball, simulating the impact energy of free-falling hailstones. Our impact resistant shingles remained intact, even when struck by the 2-inch steel ball.
- To meet the acceptance criteria of UL 2218, the roof covering material exposed surface, back surface and underneath layers must show no evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other evidence of opening of the roof covering layer.

# A strong roof. A stylish home.

IMPACT RESISTANT shingles will give you both.

Our shingles achieve the highest impact resistance rating available—all while maintaining the beauty and curb appeal you expect from CertainTeed



## HAVING A ROOF THAT'S EXTRA STRONG SHOULDN'T MEAN COMPROMISING ON STYLE.

That's why we give you choices to suit your needs and tastes — even when it comes to impact resistant shingles.

Each of the options below has an added fiber glass backing. It's there to provide an enhanced level of impact resistant protection over and above the high durability these popular, strong shingles already possess. Each of these shingles has proven it can stand up to the force of a two-inch steel ball dropped from twenty feet without cracking.

### SPECIFICATIONS & WARRANTY

- Impact resistant: UL 2218 Class 4 rating
- Fiber glass-based construction
- UL Class A fire resistance
- 355 lb. per square (Presidential Shake IR)
- 270 lb. per square (NorthGate)
- 250 lb. per square (Landmark Solaris® Gold IR)
- 250 lb. per square (Landmark IR)
- 240 lb. per square (Highland Slate IR)
- 230 lb. per square (XT 30 IR)
- UL Certified to meet ASTM D3462
- Conforms to CSA Standard A123.5
- 30-year (XT 30 IR) or lifetime (all other products noted above) limited transferable warranties against manufacturing defects\*\*
- 50-year or 40-year limited transferable warranty against manufacturing defects of group-owned or commercial applications\*\*
- 10-year or 5-year SureStart™ protection\*\*
- 15-year or 10-year StreakFighter® algae-resistance warranty\*\*
- 15-year, 110 mph wind warranty with upgrade to 130 mph for all products except XT 30 IR which carries warranty of 70 mph.\*\*\*

*For U.S. building code compliance, see product specification sheets.*

*\*\*See actual warranty for specific details and limitations.*

*\*\*\*See warranty for application requirements.*



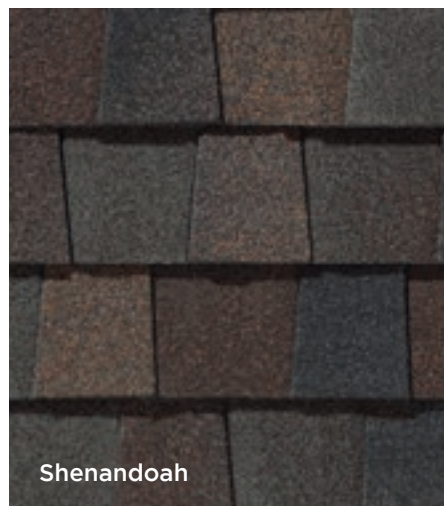
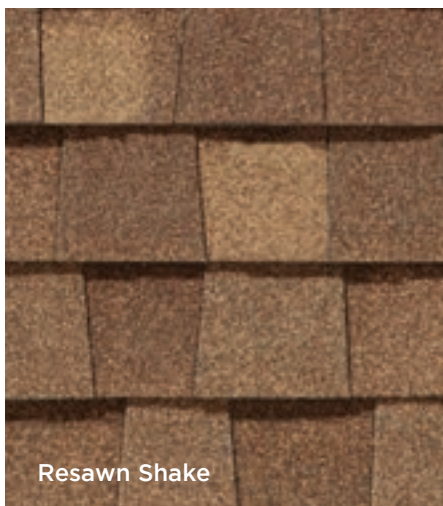
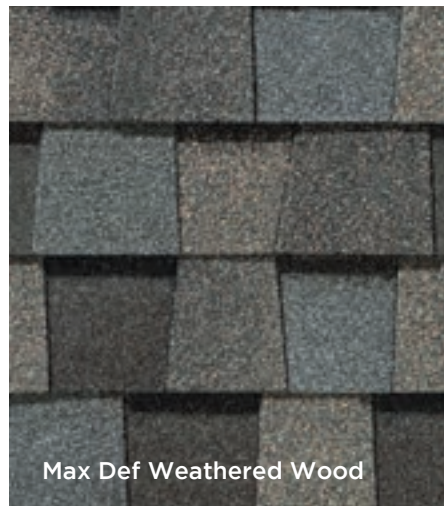
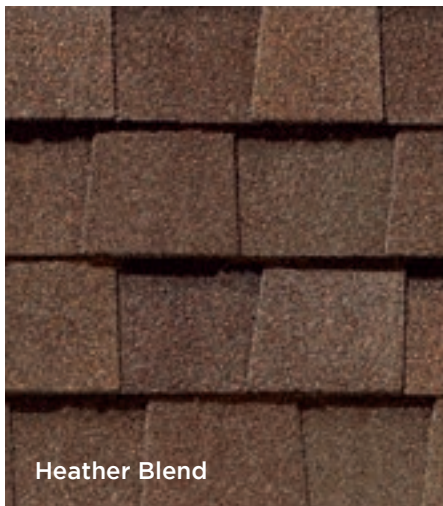
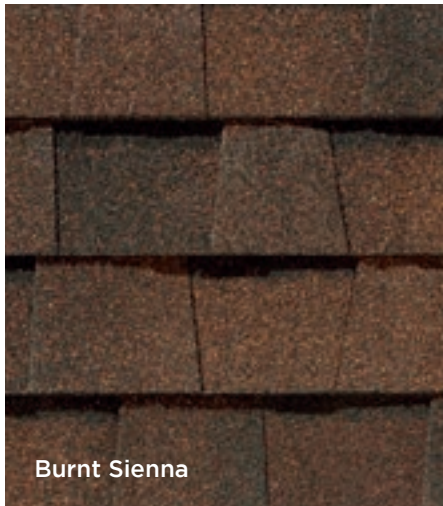
# PRESIDENTIAL SHAKE® IR



The sculpted edges and staggered design combine to give your roof the charm and beauty of authentic wood shakes. Presidential Shake IR, made of two laminated layers of the industry's most durable materials, was the first of its kind. No other shingle replicates the look of real wood shakes quite so stunningly.



# LANDMARK® IR



With soft shadow lines, a random tab design and a patented color blending process, Landmark IR gives your roof the classic shades and dimensional appearance of natural roofing materials. Designer looks combine with high durability to produce a shingle with a lifetime warranty.

# LANDMARK SOLARIS<sup>®</sup> GOLD IR

Landmark Solaris<sup>®</sup> Gold is an energy-saving breakthrough that puts cool roof technology to work. It is a steep-slope, solar reflective asphalt roofing shingle which contains advanced colored granules that reflect the sun's rays and can reduce a roof's temperature during those hot summer months.

With Landmark Solaris Gold, a new dimension is added to shingles with a richer mixture of surface granules. You get a brighter, more vibrant, more dramatic appearance and depth of color. All colors meet ENERGY STAR standards with a Solar Reflectivity of 0.26 (SR26).

## Landmark Solaris Gold Solar Reflectivity (SR), Thermal Emittance (TE) & Solar Reflectance Index (SRI) Data

Solaris Blend Name	CRRC Initial SR	CRRC Initial TE	ASTM E408 TE	Solar Reflectance Index (SRI)*
Max Def Weathered Wood	.26	.90	.95	29

\* Solar Reflectance Index (SRI) value was calculated using ASTM E408 TE values.



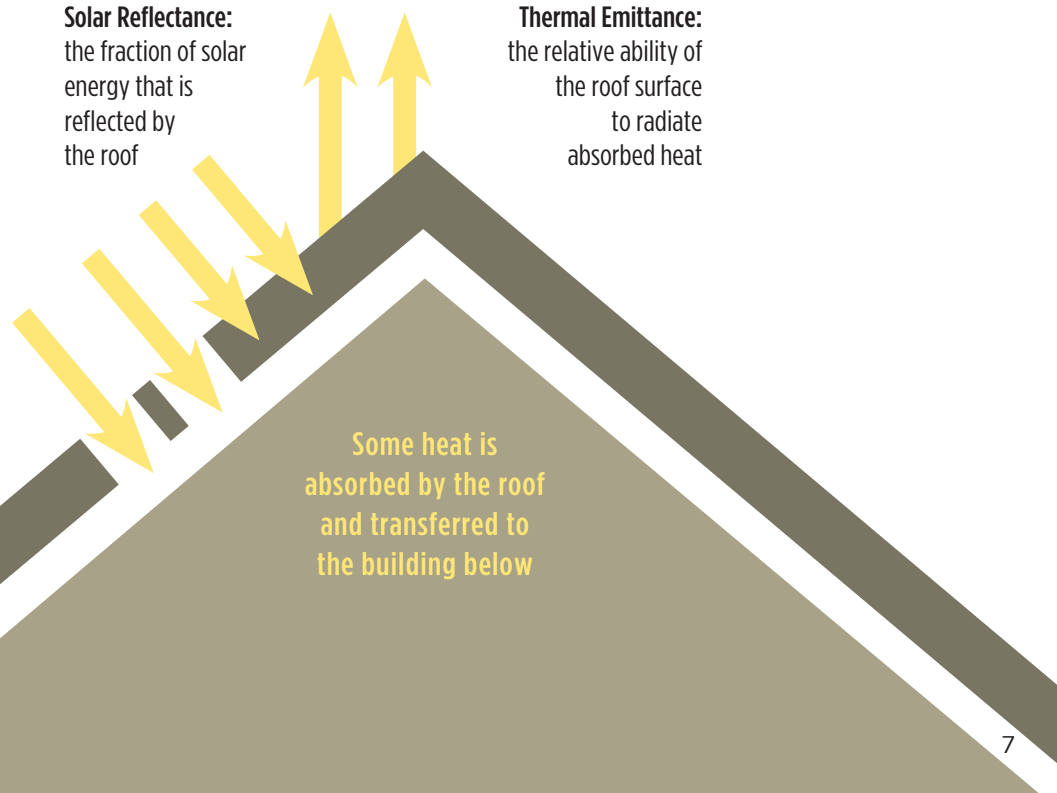
## A Cool Explanation

### What are Solar Reflectance and Thermal Emittance?

Solar reflectance and thermal emittance are the two radiative properties used to measure the "coolness" of a roof.

**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





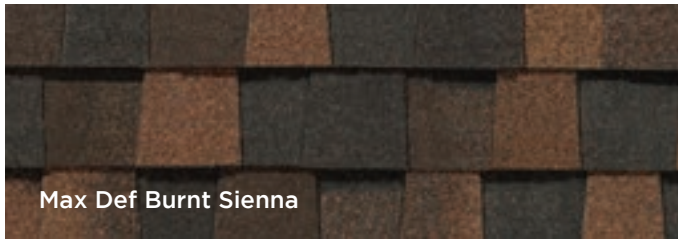
# HIGHLAND SLATE® IR



Cut to a true craggy profile, Highland Slate IR has the look, texture and tone of natural slate with a dark shadow line to accentuate its appeal from the curb. Each tab is individually colored by state of the art Precision Color technology to provide a rich, deep, hue and its four-across tab is the ideal design to deliver color, contrast, and perfection when mounted.



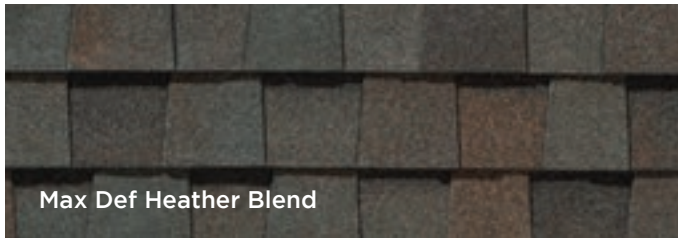
# NORTHGATE<sup>®</sup> IR



Max Def Burnt Sienna



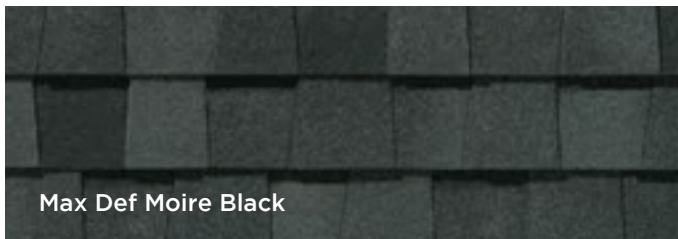
Max Def Granite Gray



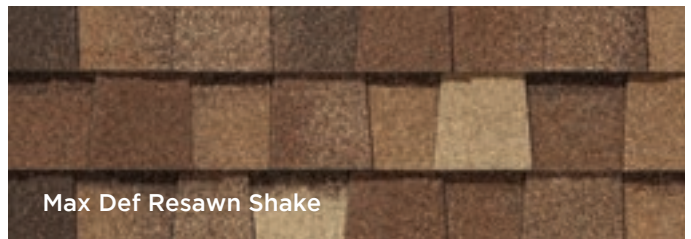
Max Def Heather Blend



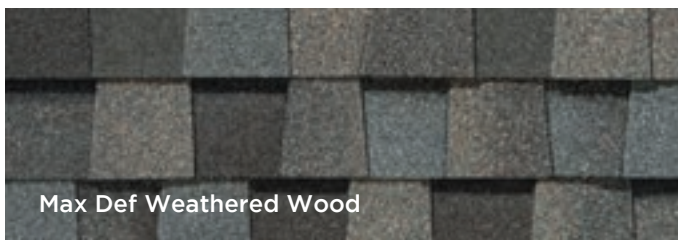
Max Def Hunter Green



Max Def Moire Black



Max Def Resawn Shake



Max Def Weathered Wood



Silver Birch (not available in all areas)  
CRRC Product ID 0668-0072



## Bend But Never Break

CertainTeed's new NorthGate SBS modified asphalt shingle is unmatched by other standard asphalt shingles. The rubberizing aspect of SBS allows greater flexibility so the shingles resist cracking even in extreme cold-weather, allowing for year round application. SBS also offers superior granule adhesion, which is one of the key components in protecting the shingle against the elements.

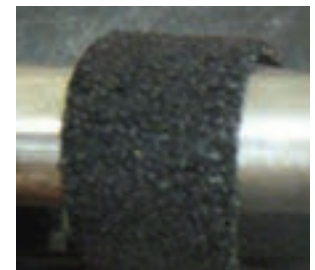
NorthGate has received UL 2218 Class 4 Impact Resistance classification, the highest rating possible.

Because of its uncompromised strength, NorthGate offers one of the industry's most comprehensive warranties.

Compare the pliability difference of NorthGate and a non-SBS modified product at 0° F.



non-modified asphalt shingle with cracking

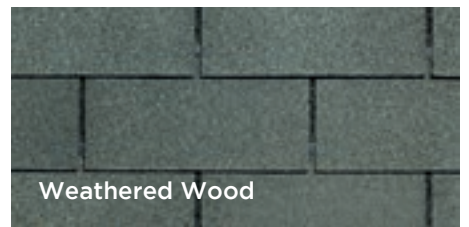
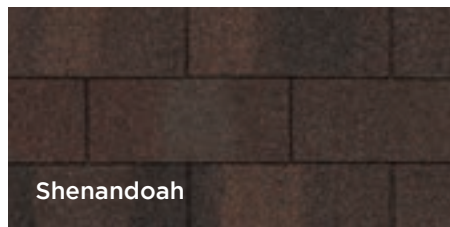
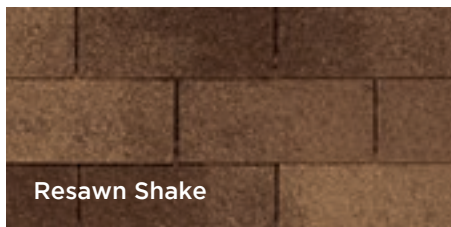
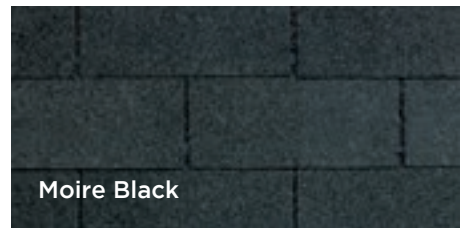
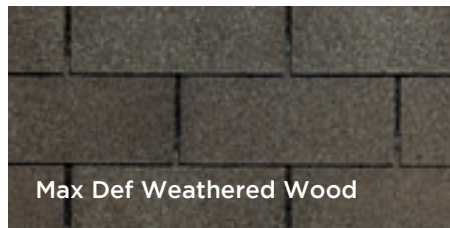
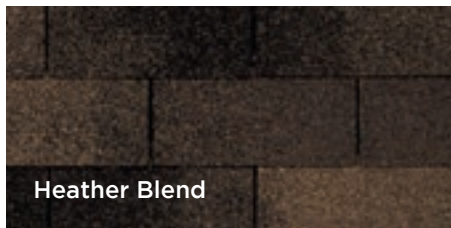
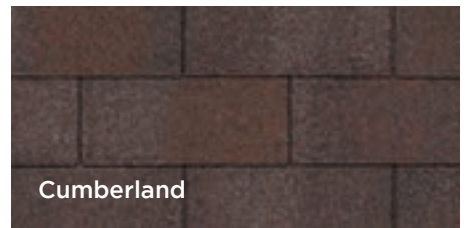
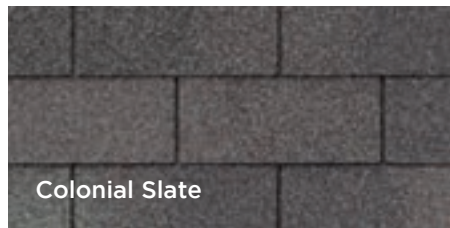
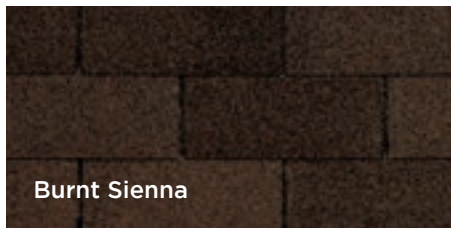


SBS - modified asphalt shingle with no cracking

### Improvement of SBS-modified vs. Standard Asphalt Shingles

Physical Property	Improvement
Tear Strength	40%
Granule Loss	15%
Nail Pull Resistance	40%
Cold Flexibility (0° F)	Passes

# CERTAINTEED XT<sup>®</sup> 30 IR



With the added impact resistance, this traditional three-tab shingle offers a level of protection that's far from everyday. It's available in several colors and has a 30-year warranty.

## Add the right accessories and ensure full protection.

For your Landmark IR or XT 30 impact resistant roof, use CertainTeed XT 30 UL 2218 Class 4 impact resistant roofing shingles of the same color for capping hips and ridges. Double capping will add depth and dimension. For Landmark Solaris IR, use impact resistant Solaris Accessory on the hips and ridges. For Highland Slate IR, use impact resistant Cedar Crest accessory on the hips and ridges. Both accessory products are available in colors to complement the field shingles.

To ensure your entire Presidential Shake IR roof meets UL 2218 Class 4 impact resistance, impact resistant Cedar Crest Accessory must be used on the hips & ridges, and Impact Resistant Presidential Starter must be used for the starter course.







# Color Companion Products™ for Flat Roof Areas

Consider using Flintlastic SA roofing systems on low-sloped roof pitches, such as porches and carports. Flintlastic SA Cap sheets are available in colors to complement your CertainTeed shingle roof.

A variety of 2-ply and 3-ply Flintlastic SA systems are available which pass UL 2218 Class 4 Impact Resistance requirements. CertainTeed's Commercial Roofing Technical Department is available to help your roofing contractor select the system that is best for you. They may be reached at 800-396-8134.



# Enjoy the extra confidence of SureStart™ protection



Your warranty is strong on its own. But you also get the added confidence of SureStart protection. That simply means if any problem due to a manufacturing defect occurs during the SureStart period, call us. Upon inspection, we'll cover labor and material replacement costs at 100%.

*Lifetime and 30-year limited transferable warranties, including 10- and 5-year SureStart™ protection, are applicable only in the United States, its territories and Canada; for products sold outside these areas, please refer to the International Warranty for specific details and limitations.*

*Some insurance companies offer premium discounts for the use of UL 2218 Class 4 products; check with your agent to see if you are entitled to a discount.*

*NOTE: Due to limitations of printing reproduction, CertainTeed can not guarantee the identical match of the actual product color to the graphic representations throughout this publication.*

# RESIDENTIAL ROOFING



The best  
formula under  
one roof.

We start with the highest-quality raw materials and add state-of-the-art technology to monitor our manufacturing process and test our finished products. The result is superior performance from beginning to end.



**CertainTeed Corporation**

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learn more at: [certainteed.com/roofing](http://certainteed.com/roofing)

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