

Southern California Tiles

CONCRETE ROOF STANDARD WEIGHT COLLECTION



Concrete Roof Tiles

Few roof products are as beautiful or enduring as Boral concrete roof tiles. With so many styles and colors to choose from, you'll find that adding a tile roof to your home is one of the easiest and most effective ways to complement your lifestyle and increase the value of your home.



Natural
& Extensive
Color Offering



BORAL'S INNOVATIVE PRODUCTS ARE SUSTAINABLE, DURABLE AND BEAUTIFUL



Boral Products are featured in the VISION House® in INNOVENTIONS presented by Green Builder® Media
This green home exhibit is located in INNOVENTIONS at Epcot® at the Walt Disney World® Resort.



Popular Mechanics' Winner 2011 Breakthrough Award
The year's 10 Most Transformative Products

HOME AND HARDWARE
BoralPure® Technology
Smog Eating Concrete Tile

2012 Best New Product Edison Gold Award Winner

MATERIAL SCIENCE
Safety & Sustainability
BoralPure® Technology
Smog Eating Concrete Tile





Tile is timeless

Only tile enables you to achieve authentic, old-world aesthetics with the benefits of durable, modern materials. Boral Roofing has captured all the characteristics of natural slate, clay and wood – which are historically the world’s most widespread roofing materials – in a concrete tile. The result is a tile roof of unmatched beauty and a home with incredible curb appeal.

Boral Roofing is continually acknowledged by the industry for our product innovations. And three of our most popular products - Madera, Slate and Barcelona - replicate authentic materials, while reducing installation costs and increasing longevity and energy efficiency.



Code Approval: Complies with all building codes including but not limited to ICC ESR-1647. Some approvals are regional and only apply to locally produced products; please contact Boral Roofing before transporting product across state lines. Specifically, products used in the Miami Dade County region of Florida require special testing and recognition. All files are Class A fire rated.

Disclaimer: The printed colors shown in this brochure may vary from actual available tile colors. Before making a final selection, be sure to review actual tile samples and roof installations. Please contact your local sales office for further assistance. Inadvertent errors in this publication are subject to change without notice. No performance guarantee is offered or implied beyond that expressly indicated

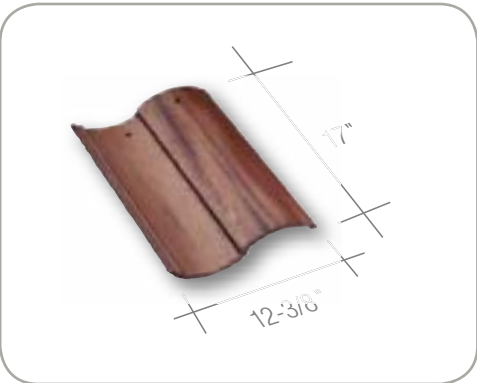
Efflorescence is a temporary surface condition which is common to all concrete products. The process is caused by the chemical nature of cement. This reaction can appear as an overall chalky white bloom (a softening of color) or in more concentrated patches. It is difficult to predict how long the effects of efflorescence will last. It depends on the type and amount of deposit as well as local weather conditions. The action of carbon dioxide and rainwater will gradually remove the deposit, in most cases, leaving the original color of the roof intact without further efflorescence occurring. It is superficial and in no way affects the quality or functional properties of the tile.

Installation: Please consult the Tile Roofing Institute (TRI) Installation guides for application recommendations.



Choose from one of our many cool roof rated tiles that will improve the energy efficiency by reflecting sunlight and heat away from your roof. When these are combined with our Elevated Batten System, they will provide reduced cooling costs and they may even qualify for local rebates. The Cool Roof Rating Council (CRRC) measures the “coolness” of a roof by determining a roof’s solar reflectance (SR) and thermal emittance (TE). Both properties are rated on a scale from 0 to 1, where 1 is the most reflective or emissive. The CRRC measures these two properties for roofing products, both for the product’s initial values and after three years of weather exposure. Boral Roofing manufactures products that meet CRRC guidelines, allowing homeowners in some regions to receive utility rebates. Boral Roofing’s CRRC rated products help reduce the heat island effect found in urban areas and in general, increases the overall energy efficiency of the building. For current product ratings please visit our website at www.boralroof.com and click on CRRC logo on the home page.

Barcelona



Barcelona is reminiscent of the Spanish roofs found on early missions in California, dramatically capturing the beautiful, rustic appearance of the Old World.

- Classic style with the durability and value of concrete tile
- Distinct hue combinations that create a beautiful, rustic appearance

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 3" minimum headlap, 89 field tiles will cover approx. 100 square feet of roof area.	Approx: 900 lbs.	267	3	Approx: 2896 lbs.



Morning Rose

1BCCS7310



CRRC Rated Product - 0942-0015
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

Red Castle

1BCCS7970



CRRC Rated Product - 0942-0016
Reflectance: 0.23 / Emittance: 0.92 / SRI: 24

La Terra Blend

1BCCS6031



CRRC Rated Product - 0942-0075
Reflectance: 0.21 / Emittance: 0.87 / SRI: 19

Casa Grande Blend

1BCCS6169



CRRC Rated Product - 0942-0014
Reflectance: 0.23 / Emittance: 0.91 / SRI: 23

Marbled Terra Cotta

1BCCS6129



CRRC Rated Product - 0942-0020
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Cliffside

1BCCS3940



CRRC Rated Product - 0942-0017
Reflectance: 0.16 / Emittance: 0.91 / SRI: 14

Camelot

1BCCS7954



CRRC Rated Product - 0942-0010
Reflectance: 0.23 / Emittance: 0.91 / SRI: 23

Apple Bark

1BCCS0431



CRRC Rated Product - 0942-0007
Reflectance: 0.18 / Emittance: 0.90 / SRI: 16

Autumn Blend

1BCCS6160



CRRC Rated Product - 0942-0019
Reflectance: 0.23 / Emittance: 0.90 / SRI: 23

Barcelona

Terra Cotta Flashed - Slurry Finish
1BCSS6300



CRRC Rated Product - 0942-0018
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Charcoal Brown Blend
1BCCS1132



CRRC Rated Product - 0942-0005
Reflectance: 0.18 / Emittance: 0.91 / SRI: 17

Salerno Clay
1BCCS6330



CRRC Rated Product - 0942-0012
Reflectance: 0.17 / Emittance: 0.93 / SRI: 17

Santa Catarina Blend
1BCCS6036



CRRC Rated Product - 0942-0076
Reflectance: 0.20 / Emittance: 0.85 / SRI: 16

Verona Clay
1BCCS7330



CRRC Rated Product - 0942-0004
Reflectance: 0.20 / Emittance: 0.93 / SRI: 20

Gulfstream
1BCCS4960



CRRC Rated Product - 0942-0013
Reflectance: 0.21 / Emittance: 0.91 / SRI: 21

Sunrise - Slurry Finish
1BCSS6112



CRRC Rated Product - 0942-0024
Reflectance: 0.36 / Emittance: 0.93 / SRI: 41

California Mission Blend
1BCCS6464



CRRC Rated Product - 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Buckskin
1BCCS0141



CRRC Rated Product - 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 22

Goldenrod
1BCCS6116



CRRC Rated Product - 0942-0043
Reflectance: 0.32 / Emittance: 0.89 / SRI: 34

Dunes Tan
1BCCS0198



CRRC Rated Product - 0942-0074
Reflectance: 0.29 / Emittance: 0.89 / SRI: 30

Charleston
1BCCS6070



CRRC Rated Product - 0942-0073
Reflectance: 0.29 / Emittance: 0.87 / SRI: 29



Boosted Barcelona Caps



Installed Weight / Square

10% - Approx. 9 caps per sq. 940 - 950 lbs.
20% - Approx. 18 caps per sq. 980 - 1000 lbs.
30% - Approx. 27 caps per sq. 1020 - 1050 lbs.

Boosted Barcelona Caps is an available installation application and when combined with Barcelona 900 field tiles, replicates the appearance of an authentic mortar-boosted tile.

- Available in colors that emulate the warm, rustic tones of natural clay
- Superior manufacturing techniques make Boosted Barcelona Caps simple to install – reducing installation costs

Boosted Barcelona Caps is an available application of Barcelona tile and should be installed with Barcelona field tile.



Boosted Barcelona Casa Grande Blend



Gulfstream

1BECS4960K



CRRC Rated Product - 0942-0013
Reflectance: 0.21 / Emittance: 0.91 / SRI: 21

California Mission Blend

1BECS6464K



CRRC Rated Product - 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Cliffside

1BECS3940K



CRRC Rated Product - 0942-0017
Reflectance: 0.16 / Emittance: 0.91 / SRI: 14

Buckskin

1BECS0141K



CRRC Rated Product - 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 22

Morning Rose

1BECS7310K



CRRC Rated Product - 0942-0015
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

Casa Grande Blend

1BECS6169K

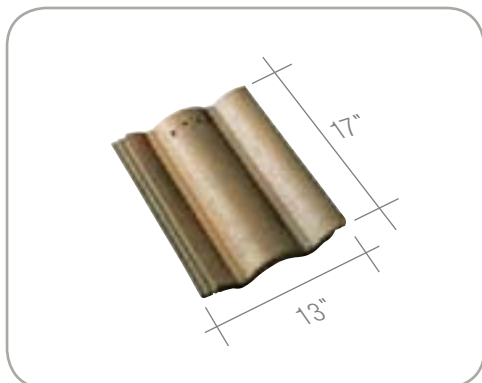


CRRC Rated Product - 0942-0014
Reflectance: 0.23 / Emittance: 0.91 / SRI: 23



Boosted Barcelona Cliffside

Villa 900



Villa 900 emulates the most popular tile in the world faithfully re-creating the beautiful Mediterranean style popular in Italy and Southern France.

- Unique colors and blends can enhance any architectural theme
- Superior strength and durability of concrete tile

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 3" minimum headlap, 87 field tiles will cover approx. 100 square feet of roof area.	Approx: 900 lbs.	308	3.54	Approx: 3327 lbs.



Charleston

1VICS6070



CRRC ID# – 0942-0073
Reflectance: 0.29 / Emittance: 0.87 / SRI: 29

Dunes Tan

1VICS0198



CRRC ID# – 0942-0074
Reflectance: 0.29 / Emittance: 0.89 / SRI: 30

Goldenrod

1VICS6116



CRRC ID# – 0942-0043
Reflectance: 0.32 / Emittance: 0.89 / SRI: 34

California Mission Blend

1VICS6464



CRRC Rated Product - 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Sunrise - Slurry Finish

1VISS6112



CRRC Rated Product - 0942-0024
Reflectance: 0.36 / Emittance: 0.93 / SRI: 41

Desert Sage

1VICS0024



CRRC Rated Product - 0942-0022
Reflectance: 0.27 / Emittance: 0.93 / SRI: 29

Apple Bark

1VICS0431



CRRC Rated Product - 0942-0007
Reflectance: 0.18 / Emittance: 0.90 / SRI: 16

Casa Grande Blend

1VICS6169



CRRC Rated Product - 0942-0014
Reflectance: 0.23 / Emittance: 0.91 / SRI: 23

Buckskin

1VICS0141



CRRC Rated Product - 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 22

Cliffside

1VICS3940



CRRC Rated Product - 0942-0017
Reflectance: 0.16 / Emittance: 0.91 / SRI: 14

Red Castle

1VICS7970



CRRC Rated Product - 0942-0016
Reflectance: 0.23 / Emittance: 0.92 / SRI: 24

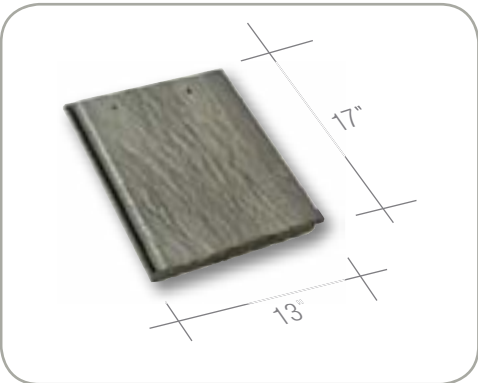
Brown Blend

1VICS3233



CRRC Rated Product - 0942-0003
Reflectance: 0.20 / Emittance: 0.92 / SRI: 19

Saxony® 900 Hartford® Slate



Hartford Slate receives a surface texture designed to emulate the surface of natural slate. Natural slate is the traditional roofing material used for homes in the Eastern States, Great Britain and Northern Europe.

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 3" minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.	Approx: 910 lbs.	288	3.39	Approx: 3405 lbs.



Hartford Slate Charcoal Brown Blend

Toffee

1FVCD0007



CRRC Rated Product - 0942-0001
Reflectance: 0.15 / Emittance: 0.93 / SRI: 14

Appalachian Blend

1FVCD0330



CRRC Rated Product - 0942-0069
Reflectance: 0.14 / Emittance: 0.89 / SRI: 11

Stone Mountain Blend

1FVCD5354



CRRC Rated Product - 0942-0047
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

Charcoal Brown Blend

1FVCD1132

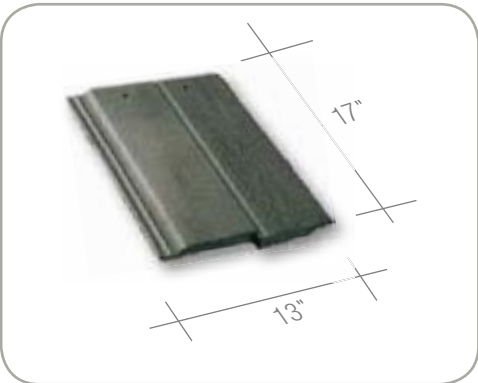


CRRC Rated Product - 0942-0005
Reflectance: 0.18 / Emittance: 0.91 / SRI: 17



Hartford Slate Charcoal Brown Blend

Saxony® 900 Split Old English Thatch



Split Old English Thatch combines the look of a natural slate with the varied appearance of a hand-hewn split tile capturing the charming architecture of an old English countryside

Saxony Split Old English Thatch should be applied in a random, broken-bond with a minimum 3” offset between the sidelaps of adjacent courses. Sidelaps in alternate courses shall not be in direct alignment.

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 4" minimum headlap, 91 field tiles will cover approx. 100 square feet of roof area.	Approx: 980 lbs.	288	3.2	Approx: 3405 lbs.



Autumnwood

1FOCZ3002



CRRC Rated Product - 0942-0070
Reflectance: 0.13 / Emittance: 0.87 / SRI: 8

Charcoal

1FOCZ1130



CRRC Rated Product - 0942-0064
Reflectance: 0.08 / Emittance: 0.92 / SRI: 5

Cliffside

1FOCZ3940



CRRC Rated Product - 0942-0017
Reflectance: 0.16 / Emittance: 0.91 / SRI: 14

Toffee

1FOCZ0007



CRRC Rated Product - 0942-0001
Reflectance: 0.15 / Emittance: 0.93 / SRI: 14

Vintagewood

1FOCZ5011

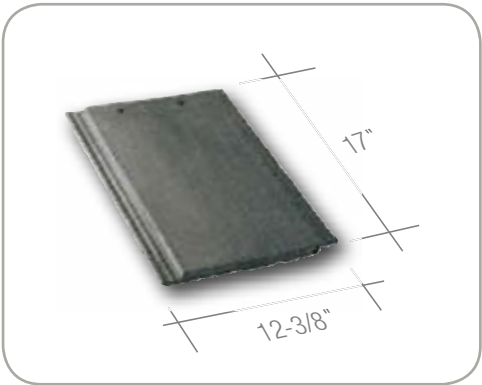


CRRC Rated Product - 0942-0089
Reflectance: 0.12 / Emittance: 0.94 / SRI: 11

Split Old English Thatch Charcoal



Saxony® Slate



This beautiful design is representative of the roof styles found in England, Northern Europe and the Eastern Seaboard; and is versatile enough to accentuate any architectural style.

Available in a broad range of colors, it faithfully captures the appearance of natural slate.

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 3" minimum headlap, 91 field tiles will cover approx. 94 square feet of roof area.	Approx: 1030 lbs.	272	2.9	Approx: 3165 lbs.



Copper Mountain Blend

1LSCS6099



CRRC Rated Product - 0942-0164
Reflectance: 0.49 / Emittance: 0.92 / SRI: 58

Brown Blend

1LSCS3233R



CRRC Rated Product - 0942-0003
Reflectance: 0.20 / Emittance: 0.92 / SRI: 19

Forest Green

1LSCS4598R



CRRC Rated Product - 0942-0011
Reflectance: 0.20 / Emittance: 0.93 / SRI: 20

California Mission Blend

1LSCS6464



CRRC Rated Product - 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Charcoal Brown Blend

1LSCS1132R



CRRC Rated Product - 0942-0005
Reflectance: 0.18 / Emittance: 0.91 / SRI: 17

Appalachian Blend

1LSCS0330



CRRC Rated Product - 0942-0069
Reflectance: 0.14 / Emittance: 0.89 / SRI: 11

Cherrywood

1LSCS7002



CRRC Rated Product - 0942-0006
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Buckskin

1LSCS0141



CRRC Rated Product - 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 22

Ebony

1LSCS5047



CRRC Rated Product - 0942-0018
Reflectance: 0.13 / Emittance: 0.90 / SRI: 10

Meritage Blend
1LSCS6106



CRRC Rated Product - 0942-0043
Reflectance: 0.32 / Emittance: 0.89 / SRI: 34

Goldenrod
1LSCS6116



CRRC Rated Product - 0942-0043
Reflectance: 0.32 / Emittance: 0.89 / SRI: 34

Stone Mountain Blend
1LSCS5354



CRRC Rated Product - 0942-0047
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

Dunes Tan
1LSCS0198



CRRC Rated Product - 0942-0074
Reflectance: 0.29 / Emittance: 0.89 / SRI: 30

Charleston
1LSCS6070

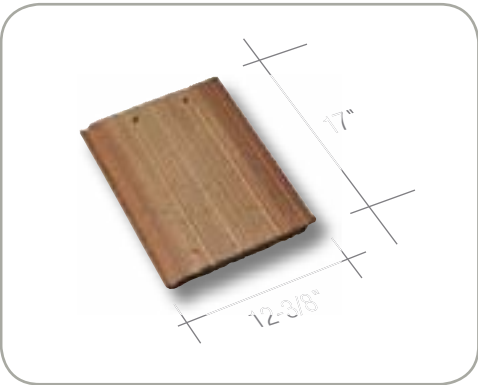


CRRC Rated Product - 0942-0073
Reflectance: 0.29 / Emittance: 0.87 / SRI: 29





Saxony® Shake



Saxony Shake roof tile perfectly captures the rustic warmth and beauty of country living by recreating the look of hand-hewn shakes. Ideal for French Country, Victorian Craftsman or Cottage architectural styling, these home designs can be enhanced with the diverse color spectrum of the Saxony Shake Collection.

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 3" minimum headlap, 94 field tiles will cover approx. 100 square feet of roof area.	Approx: 1030 lbs.	272	2.9	Approx: 3165 lbs.

Shake Charcoal Blend



Charleston
1SRCF6070



CRRC ID# – 0942-0073
Reflectance: 0.29 / Emittance: 0.87 / SRI: 29

Dunes Tan
1SRCF0198



CRRC ID# – 0942-0074
Reflectance: 0.29 / Emittance: 0.89 / SRI: 30

Goldenrod
1SRCF6116



CRRC ID# – 0942-0043
Reflectance: 0.32 / Emittance: 0.89 / SRI: 34

Hickory

1SRCF3726



CRRC Rated Product - 0942-0065
Reflectance: 0.15 / Emittance: 0.93 / SRI: 14

Charcoal Brown Blend

1SRCF1132



CRRC Rated Product - 0942-0005
Reflectance: 0.18 / Emittance: 0.91 / SRI: 17

Forest Green

1SRCF4598



CRRC Rated Product - 0942-0011
Reflectance: 0.20 / Emittance: 0.93 / SRI: 20

Desert Breeze

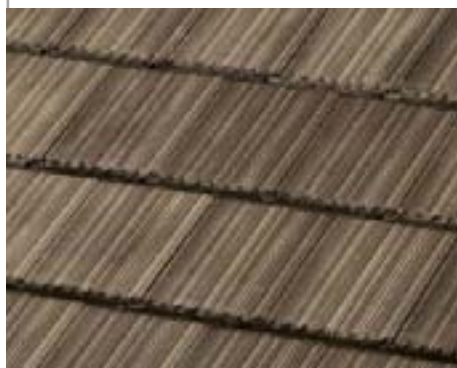
1SRCF3156



CRRC Rated Product - 0942-0002
Reflectance: 0.15 / Emittance: 0.91 / SRI: 13

Brown Blend

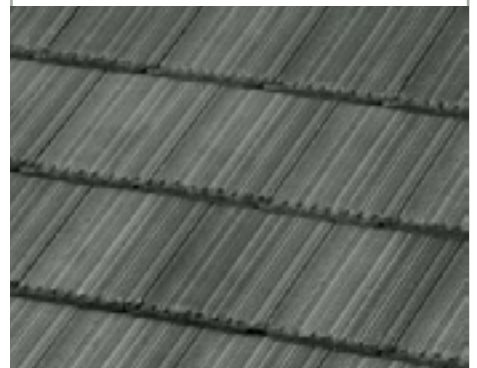
1SRCF3233



CRRC Rated Product - 0942-0003
Reflectance: 0.20 / Emittance: 0.92 / SRI: 19

Charcoal Blend

1SRCF1430



CRRC Rated Product - 0942-0072
Reflectance: 0.17 / Emittance: 0.91 / SRI: 16

Toffee

1SRCF0007



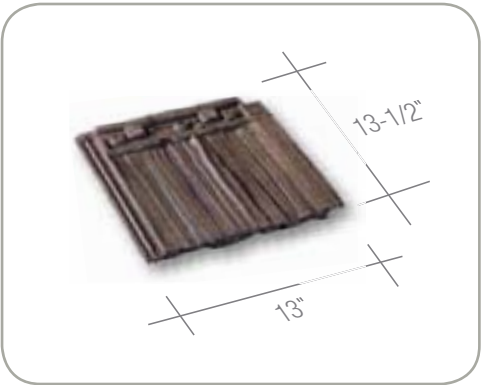
CRRC Rated Product - 0942-0001
Reflectance: 0.15 / Emittance: 0.93 / SRI: 14

California Mission Blend

1SRCF6464



CRRC Rated Product - 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18



Madera 900 is the most affordable, authentic replication of a hand-split cedar shake roof available. With its realistic wood shake surface, Madera 900 will complement any architectural style.

Coverage	Installed Weight/Square	Pieces/Pallet	Squares/Pallet	Weight/Pallet
At 3-1/2" minimum headlap, 120 field tiles will cover approx. 100 square feet of roof area.	Approx: 950 lbs.	360	3	Approx: 3010 lbs.

Mountainwood
1MDCL5001



CRRC Rated Product - 0942-0110
Reflectance: 0.08 / Emittance: 0.93 / SRI: 5

Autumnwood
1MDCL3002



CRRC Rated Product - 0942-0070
Reflectance: 0.13 / Emittance: 0.87 / SRI: 8

Vintagewood
1MDCL5011



CRRC Rated Product - 0942-0089
Reflectance: 0.12 / Emittance: 0.94 / SRI: 11



BoralPure® Smog Eating Tile

A premium sustainable roof that can help clean the air we breathe.

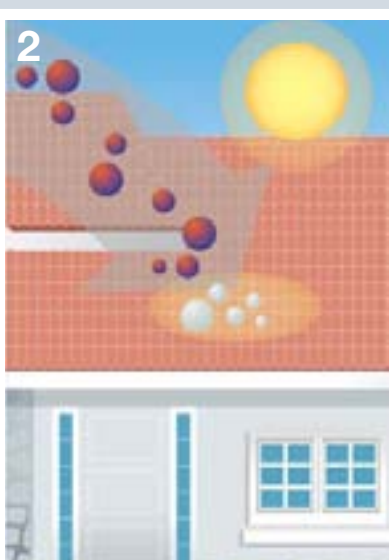
It's now possible for a roof to reduce harmful, disease-causing pollutants from the air. Boral is the first to introduce this application to roofing products in the American building industry – BoralPure® Smog Eating Tile.



How Does it Work?



Smog Eating Tile oxidizes harmful NOx released from vehicles by converting them into cleaner air that is safer to breathe.



The roof tile coating contains a photocatalyst, activated by daylight, which helps convert harmful Nitrogen Oxides into Calcium Nitrates.



When it rains, the Calcium Nitrates are washed off the roof.

A Proven De-Pollutant

Over one year, a 2,000 square foot BoralPure® Smog Eating Tile roof can oxidize the same amount of Nitrogen Oxide as a car produces from being driven up to 10,800 miles.¹

A Stay-Clean Roof

In addition to its de-polluting capabilities, BoralPure® helps keep your roof clean. The tile coating may help hinder the formation of organic substances such as mold and algae.²

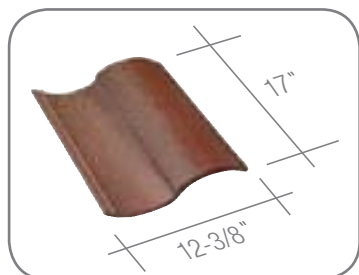
"In the studies conducted in Europe where they actually applied it [Titanium Dioxide] to roadways the air was measurably cleaner. It works."

Michael Chusid, President of Chusid Associates, a marketing and technical consultant on building products

¹US Environmental Protection Agency Vehicle Program Tier 2 Standard; Daylight hours based on Los Angeles, California; Laboratory air-purification performance testing per ISO 22197-1: 2007; results may vary depending on geographic location, weather and other factors including but not limited to Nitrogen Oxide concentration in the air.

² PICADA: Photocatalytic Innovative Coverings Applications for De-pollution Assessment, Europe, 2004

BoralPure® Collection



BoralPure® Barcelona

Barcelona is reminiscent of the Spanish roofs found on early missions in California, dramatically capturing the beautiful, rustic appearance of the Old World.

Coverage	Installed Weight / Square
At 3" minimum headlap, 89 field tiles will cover approx. 100 square feet of roof area.	Approx: 900 lbs.

Amada Blend

1BCAS3108



CRRC Rated Product - 0942-0119
Reflectance: 0.19 / Emittance: 0.85 / SRI: 15

Kern Canyon Blend

1BCAS5111

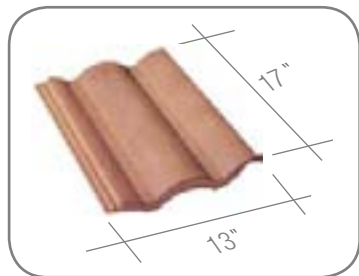


Via Rocco

1BCAS7026



CRRC Rated Product - 0942-0128
Reflectance: 0.15 / Emittance: 0.86 / SRI: 11



BoralPure® Villa 900

Villa emulates the most popular tile in the world faithfully re-creating the beautiful Mediterranean style popular in Italy and Southern France.

Coverage	Installed Weight / Square
At 3" minimum headlap, 87 field tiles will cover approx. 100 square feet of roof area.	Approx: 930 lbs.

Kern Canyon Blend

1VIAS5111



San Miguel Blend

1VIAS6151

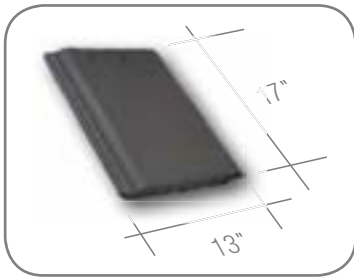


Goldenrod Flash

1VIAS6118



CRRC Rated Product - 0942-0084
Reflectance: 0.28 / Emittance: 0.92 / SRI: 30



BoralPure® Saxony® 900 Country Slate

This beautiful design is representative of the roof styles found in England, Northern Europe and the Eastern Seaboard; and is versatile enough to accentuate any architectural style.

Coverage	Installed Weight / Square
At 3" minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.	Approx: 910 lbs.

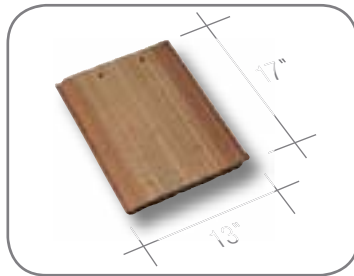
Whitney Grey

1FEAY5110



Kern Canyon Blend

1FEAY5111



BoralPure® Saxony® 900 Shake

Saxony Shake roof tile perfectly captures the rustic warmth and beauty of country living by recreating the look of hand-hewn shakes.

Coverage	Installed Weight / Square
At 3" minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.	Approx: 910 lbs.

Kern Canyon Blend

1FBAF5111



BoralPure Villa Goldenrod Flash

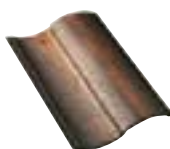




Finishing Touches

Boral Roofing provides all of the necessary products for a durable and beautiful roof installation. Our trim tile is the most efficient and attractive way to complete your roof. In addition to rake and ridge pieces, Boral Roofing's hip starters are handmade and easy to install. All are protected by our Limited Lifetime, Fully Transferable, Non-Prorated Product Warranty* for tile.

- Precision production techniques provide a consistent look throughout the project
- Colors and textures complement field tile; no need to mix color mortar
- Easier and faster to install than mortar balls; no second steps
- Reduces labor time and expense

Barcelona	Capri Trim	Hip Starter	Apex 3-Way		
	 1CTCS/1CTSS	 1CHCS/1CHSS	 1C3CS/1C3SS		
Villa 900	Capri Trim	Hip Starter	Apex 3-Way		
	 1CTCS/1CTSS	 1CHCS/1CHSS	 1C3CS/1C3SS		
Saxony® Hartford® Slate Split Old English Thatch Slate Shake	90° Rake	3-Sided Ridge	3-Sided Hip Starter	Apex 3-Way	Apex 4-Way
	 1R9CS	 1R3CS	 1FHCS	 13ACS	 14ACS
Madera 900	90° Rake	V-Ridge	Tapered Eave Starter		
	 19CCL	 1VCCL	 1CECL		

Roof System Components

At Boral we view a roof as not a mere tile covering but a dynamic, performing system that protects, breathes and ages with the structure. By studying roof performance characteristics and failure points, we have created Roof System Components – a collection of components that, when installed properly and used comprehensively, result in a tile roof that lasts longer and increases energy savings.

- Ensures all areas of a roof are protected and utilized for optimum performance
- Improves weatherproofing and “breathability” of a tile roof
- Helps prevent water damage
- Increases airflow and ventilation
- Provides aesthetically pleasing design elements

When used together, selected products form Boral's Energy Efficient Roof System further reinforce our belief that we must strive to perfect not only a roof's aesthetic form, but also its primary function. Only then can we provide our customers with a roofing solution unmatched by any other roofing company.

Vents

It is estimated 75% of homes have deficient attic ventilation, which increases energy costs and diminishes the lifespan of roofing underlayments. These products ensure proper ventilation and help reduce energy costs.

Valleys

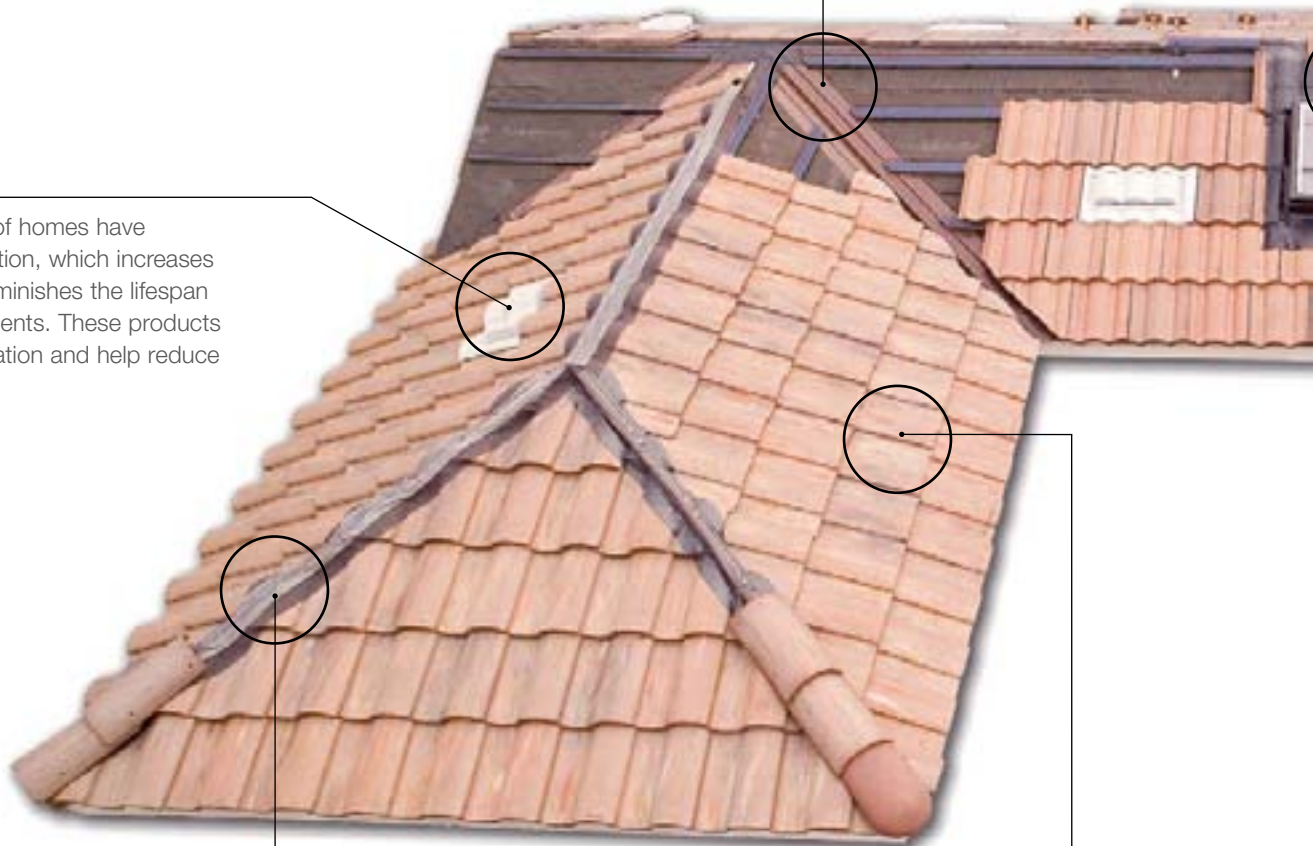
Channeling water properly helps prevent it from collecting on the deck – which can damage the underlayment and cause the roof deck and underlying structure to rot.

Hip & Ridge

Hips and ridge weather blocking helps prevent wind-driven rain, snow and other debris from entering the peaks and corners of a roof, and increases ventilation.

Fasteners and Tools

While standard roofing nails are typically used according to local code requirements, Boral recommends premium fasteners and tools that offer added performance and security.





For complete list of Roof System Components or to order catalog please visit www.boralna.com/roofcomponents

Flashing

Proper flashings prevent water, snow and debris from entering joints where the walls meet the roof deck. The use of flashing creates the proper barrier in this situation.

Underlayments

While tile is ultimately the first line of defense against the elements, underlayments provide a secondary level of protection directly on top of the roof deck from deterioration, moisture and leaks.

Eaves

Proper eave treatment creates a finished look for the roof and enhances its overall functionality. By elevating the first course of tile to the proper height, it completes the overall aesthetic of the roof, and helps protect against infestation.

Battens

Our Elevated Battens are a crucial aspect of Boral's Energy Efficient Roof System, and improve the performance of any tile installation. They provide positive anchoring for each tile, raising each tile off the roof deck to provide ventilation and the unrestricted flow of any moisture on the underlayment.

Rake & Gable End

Boral's alternative to rake tiles provide aesthetic options and protection against weather, animal infestation and debris accumulation.



Energy Efficient Roof System

Why should you choose Boral's Energy Efficient Roof System? Highly Energy Efficient and Long Lasting.

How does it work?



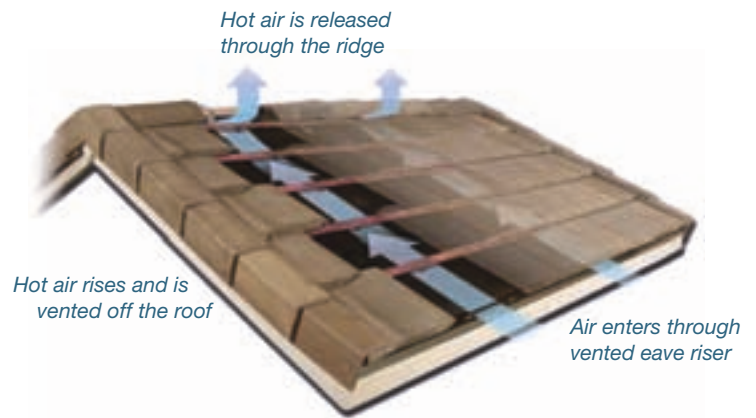
Tile roofs are highly insulating and prevent much of the sun's heat from penetrating the building. Boral offers tiles in a wide range of profiles in highly reflective colors and certain tiles meet Energy Star and U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) rating.

In addition to tile's thermal mass, the air space between the tile and the roof deck provides a layer of insulation. Boral Roof Tiles go a step further by naturally ventilating this air space. Nearly all the heat that penetrates through the tiles is vented through the ridge. This keeps the building cooler, reducing your energy bills every year with no electrical or mechanical parts. Letting your roof system breathe will also make it last longer than traditional tile roof construction.



The most common reason for reroofing is deterioration of the roof system beneath the tiles when tiles or flashings are damaged or installed incorrectly.

Boral roof systems allow moisture that may get under the tiles or flashings to flow down and off the roof deck and quickly dry out, keeping the roof system in good condition to last longer.



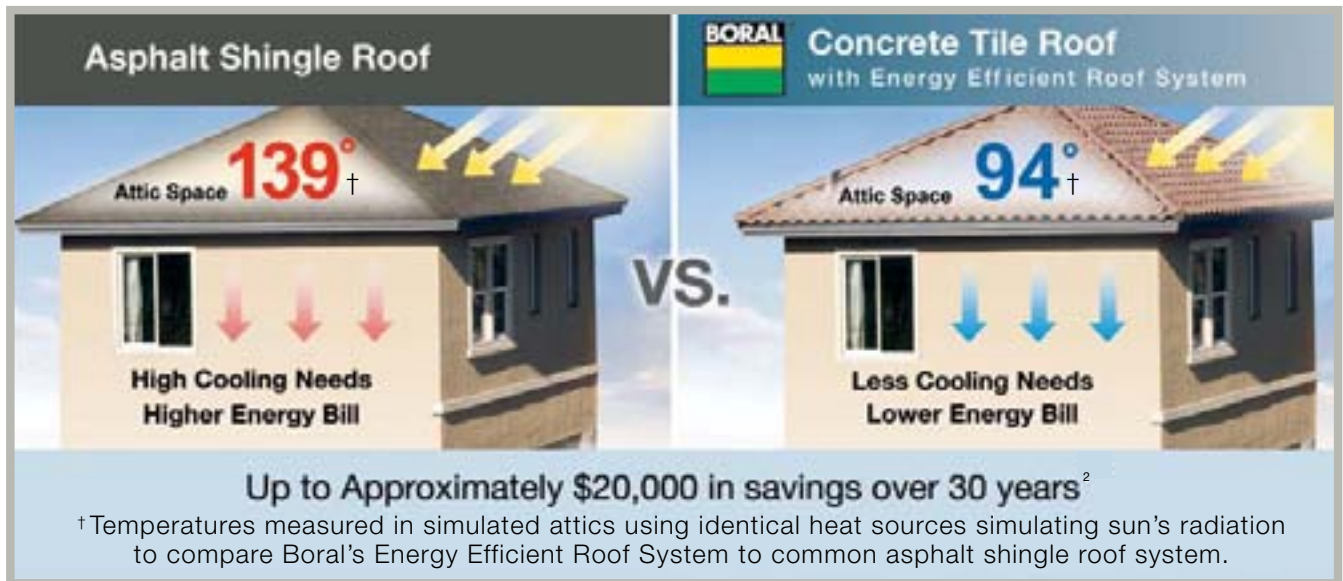
How much could you save?



A family in a typical single family house could save up to 22% per year on heating and cooling costs compared to the standard asphalt shingle roof.¹ A single family house with a Boral's Energy Efficient Roof System could save an average of \$15 to \$20 per month immediately compared to a standard asphalt shingle roof and as energy rates rise year over year, your savings could increase as well and could amount up to \$20,000 over 30 years.²



Calculate how much you could save by visiting www.boralroof.com and clicking on the **Energy Calculator** button.



¹Steep-slope Assembly Testing of Clay and Concrete Tile with and without Cool Pigmented Colors, Oak Ridge National Laboratory, 2005. Results vary based on profile of tile installed, location, weather and other factors.

²Results based on a 22 square roof in Southern California with no additional energy efficient upgrades during an average annual weather pattern, annual inflation rate of 3%, and annual energy cost increase of 3.5%. Savings may vary based on location, weather and other factors. Savings estimates are based on comparison to similar size asphalt shingle roof.

Premium

A SUPERIOR SYSTEM WITH BETTER PROTECTION AGAINST THE ELEMENTS AND SIGNIFICANT ENERGY SAVINGS

Premium quality components and construction methods provide superior durability and energy efficiency.¹ The Elevated Batten System® provides natural air insulation and ventilation while eliminating thousands of perforations through the water proofing underlayment. Boral TileSeal™ underlayment has a cool white surface and adheres to the deck without nails or staples for better protection against leaks.



Preferred

A BETTER TILE ROOF SYSTEM - MORE PROTECTION PLUS ENERGY EFFICIENCY

Better quality components installed correctly provide better quality results. The Elevated Batten System® provides natural air insulation and ventilation while eliminating thousands of perforations through the water proofing underlayment. GatorSeal® adheres to the deck without nails or staples for better protection against leaks.



Contractor's Choice

AFFORDABLE SYSTEM FOR THE COST-CONSCIOUS

This is an affordable energy saving¹ roof with better quality and more security than the code minimum standard. This system upgrades a few code required components to create a roof that breathes with the innovative roof ventilation developed by Boral Roofing along with a durable, high performance underlayment at a modest price.



Vented Ridge

- Provides weather protection at hips and ridges
- Exhausts heated air from under the tiles
- Also can ventilate the attic

Underlayment

- High quality protection from the elements as a secondary water proof barrier under tiles
- Underlayments sold by Boral Roofing are backed by a manufacturer's limited warranty

Concrete Tile

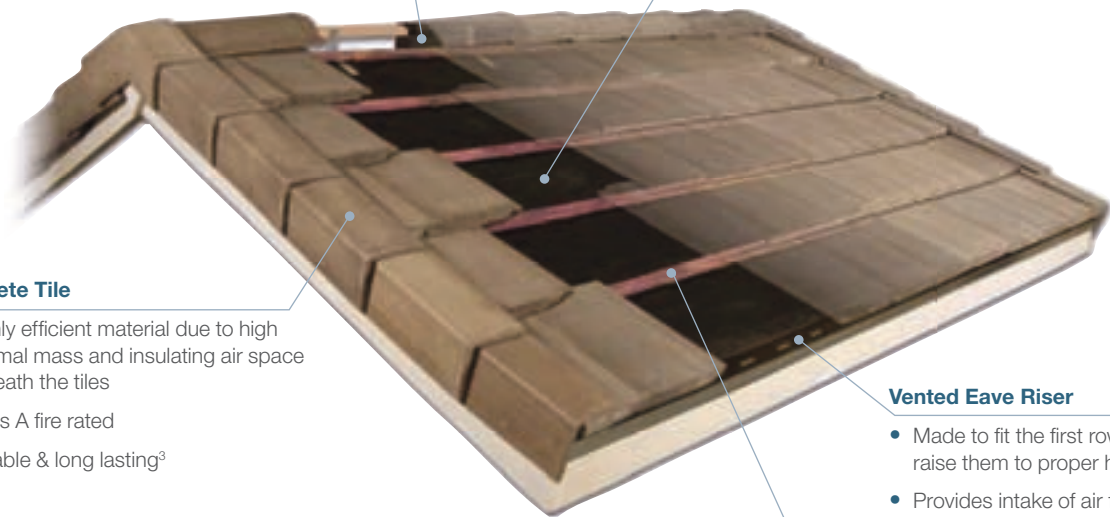
- Highly efficient material due to high thermal mass and insulating air space beneath the tiles
- Class A fire rated
- Durable & long lasting³

Vented Eave Riser

- Made to fit the first row of tiles and raise them to proper height
- Provides intake of air for ventilation under the roof tiles
- Profiled styles are decorative and functional

Elevated Batten System® (EBS)

- Elevates tiles to allow free flow of air and water
- Provides effective thermal barrier and ventilation



³Boral Roofing concrete tiles are covered by Limited Lifetime Warranty - see our website www.boralroof.com for details.

GO WITH THE BEST



Boral Products are featured in the **VISION House®** at **INNOVENTIONS** presented by **Green Builder® Media**. This green home exhibit is located in **INNOVENTIONS** at *Epcot®* at the *Walt Disney World®* Resort.

Popular Mechanics' Winner



2011 Breakthrough Award for Home and Hardware
BoralPure® Technology
Smog Eating Concrete Tile

Edison Gold Award Winner



2012 Best New Product in Safety & Sustainability
BoralPure® Technology
Smog Eating Concrete Tile

ABOUT BORAL ROOFING

Boral Roofing is a subsidiary of Boral USA and is the country's largest premium provider of complete roofing and re-roofing solutions for architects as well as commercial and residential builders. Boral Roofing operates 15 clay and concrete tile manufacturing plants throughout the U.S. and Mexico.

ABOUT BORAL USA

Headquartered in Roswell, Georgia, Boral USA through its subsidiaries employs approximately 1,500 individuals at more than 140 operating and distribution sites across the United States. The U.S. operations include the country's largest brick manufacturer and the largest clay and concrete roof tile manufacturer.

Build something great™ with Boral®

Roof Tiles | Roof Accessories | Bricks | Trim | Stone
www.boralna.com



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Henderson, NEVADA
Katy, TEXAS
Tacoma, WASHINGTON

Corporate Office

Boral Roofing
200 Mansell Court East, Suite 310
Roswell, GA 30076

Western Office

Boral Roofing
7575 Irvine Center Drive, Ste. #100
Irvine, CA 92618

Customer Service

800 669 TILE (8453)



Download a QR Code reader app for your smart phone, then take a photo to visit our website
www.boralroof.com



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