



Concrete Roof Tiles

LIGHTWEIGHT COLLECTION



BORAL

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 its look and increase its value.

Tile.

For the way it looks.

And the way it lasts.



Natural
& Extensive
Color Offering





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 - Cedarlite, Slate and España - replicate authentic materials, while reducing installation costs and increasing longevity and energy efficiency.



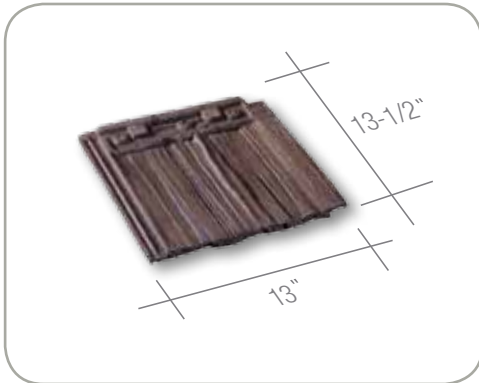
Code Approval: Complies with all building codes including but not limited to ICC ESR-1647. Some approvals are regional and only apply to locally produced products; please contact Boral Roofing before transporting product across state lines. Specifically, products used in the Miami Dade County region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

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. Categories, typographical errors 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.

Cedarlite® 600 & Madera 700



“The Ultimate Shake Replacement”, CedarLite 600 and Madera 700 represent a quantum leap in concrete roof tile aesthetics. Modeled after traditional heavy hand-split cedar shakes, these products were developed to deliver a true rustic, realistic wood appearance, while adding the superior features and benefits inherent in concrete tile.

Coverage	Installed Weight / Square
At 3-1/2" minimum headlap, 120 field tiles will cover approx. 100 square feet of roof area.	Approx.: Cedarlite 600: 590 lbs. Madera 700: 720 lbs.



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.boralna.com and click on CRRC logo on the home page.

Ironwood

2CLCL5773



CRRC ID# – 0942-0080
Reflectance: 0.11 / Emittance: 0.93 / SRI: 13

Silverwood

2CLCL5780



CRRC ID# – 0942-0059
Reflectance: 0.12 / Emittance: 0.95 / SRI: 14

Heartwood

2CLCL3783



CRRC ID# – 0942-0060
Reflectance: 0.12 / Emittance: 0.91 / SRI: 12

Elkwood

2CLCL0072



CRRC ID# – 0942-0081
Reflectance: 0.16 / Emittance: 0.94 / SRI: 17

Autumnwood

2CLCL3002



CRRC ID# – 0942-0070
Reflectance: 0.13 / Emittance: 0.87 / SRI: 11



Ironwood



Madera 700

Autumnwood

3MDCL3002



CRRC ID# - 0942-0070
Reflectance: 0.13 / Emittance: 0.87 / SRI: 11

Vintagewood

3MDCL5011



CRRC ID# - 0942-0089
Reflectance: 0.12 / Emittance: 0.94 / SRI: 11

Elkwood

3MDCL0072



CRRC ID# -0942-0081
Reflectance: 0.16 / Emittance: 0.94 / SRI: 17

Mountainwood

3MDCL5001



CRRC ID# - 0942-0110
Reflectance: 0.08 / Emittance: 0.93 / SRI: 10

Heartwood

3MDCL3783



CRRC ID# - 0942-0060
Reflectance: 0.12 / Emittance: 0.91 / SRI: 12

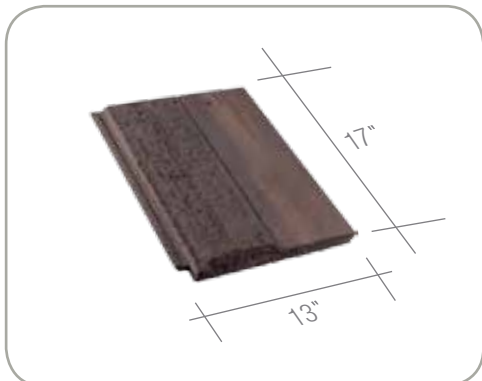


Vintagewood

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Saxony® Split Shake 600/700



This classic variation of both shake and slate tile adds a distinctive architectural style. Split Shake tiles are best suited for Cottage, French Country and Traditional American Homes. They look best when installed with a random offset between courses.

Coverage	Installed Weight / Square
At 3" minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.	Approx.: Saxony 600: 570 lbs. Saxony 700: 720 lbs.



Camouflage

600: 2FDCV3963 / 700: 3FDCV3963



CRRC ID# – 0942-0085
Reflectance: 0.11 / Emittance: 0.94 / SRI: 10

Smokey

600: 2FDCV3958 / 700: 3FDCV3958



CRRC ID# – 0942-0063
Reflectance: 0.08 / Emittance: 0.92 / SRI: 10

Stone Mountain Blend

600: 2FDCV5354 / 700: 3FDCV5354



CRRC ID# – 0942-0047
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

Wolf Grey

600: 2FDCV5969 / 700: 3FDCV5969



CRRC ID# – 0942-0090
Reflectance: 0.11 / Emittance: 0.91 / SRI: 8

Buckskin

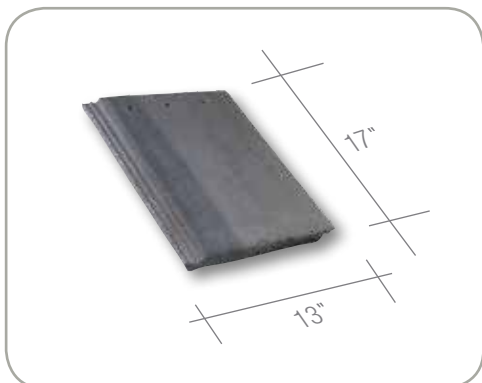
600: 2FDCV0141 / 700: 3FDCV0141



CRRC ID# – 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 21



Saxony® Slate 600/700



The beautiful design of Saxony Slate delivers the aspirational aesthetics of traditional slate roofs found in Tudor and French Colonial architecture. Available in a broad range of colors, Saxony Slate captures the appearance of natural slate, while delivering the inherent benefits of concrete tile.

Coverage	Installed Weight / Square
At 3" minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.	Approx.: Saxony 600: 570 lbs. Saxony 700: 720 lbs.



Cobblestone

600: 2FACS3957 / 700: 3FACS3957



CRRC ID# – 0942-0062
Reflectance: 0.11 / Emittance: 0.90 / SRI: 11

Hillside

600: 2FACS3935 / 700: 3FACS3935



CRRC ID# – 0942-0067
Reflectance: 0.13 / Emittance: 0.93 / SRI: 14

Lincoln Green

600: 2FACS4087 / 700: 3FACS4087



CRRC ID# – 0942-0087
Reflectance: 0.18 / Emittance: 0.90 / SRI: 16

Stone Mountain Blend

600: 2FACS5354 / 700: 3FACS5354



CRRC ID# – 0942-0047
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

Buckskin

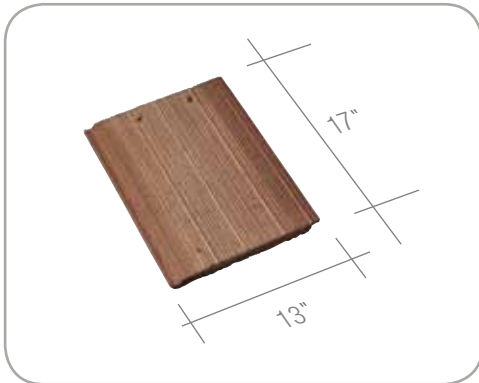
600: 2FACS0141 / 700: 3FACS0141



CRRC ID# – 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 21

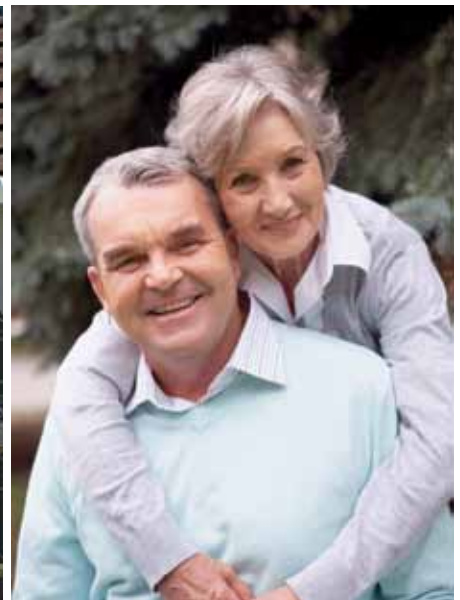


Saxony® Shake 600/700



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
At 3" minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.	Approx.: Saxony 600: 570 lbs. Saxony 700: 720 lbs.



Silver Smoke

600: 2FBCF5932 / 700: 3FBCF5932



CRRC ID# – 0942-0066
Reflectance: 0.12 / Emittance: 0.92 / SRI: 12

Saddle

600: 2FBCF3934 / 700: 3FBCF3934



CRRC ID# – 0942-0068
Reflectance: 0.15 / Emittance: 0.90 / SRI: 13

Walnut

600: 2FBCF3453 / 700: 3FBCF3453



CRRC ID# – 0942-0061
Reflectance: 0.12 / Emittance: 0.94 / SRI: 13

Charcoal

600: 2FBCF1130 / 700: 3FBCF1130



CRRC ID# – 0942-0064
Reflectance: 0.08 / Emittance: 0.92 / SRI: 10

Buckskin

600: 2FBCF0141 / 700: 3FBCF0141



CRRC ID# – 0942-0009
Reflectance: 0.22 / Emittance: 0.90 / SRI: 21

Smokey

600: 2FBCF3958 / 700: 3FBCF3958



CRRC ID# – 0942-0063
Reflectance: 0.08 / Emittance: 0.92 / SRI: 10

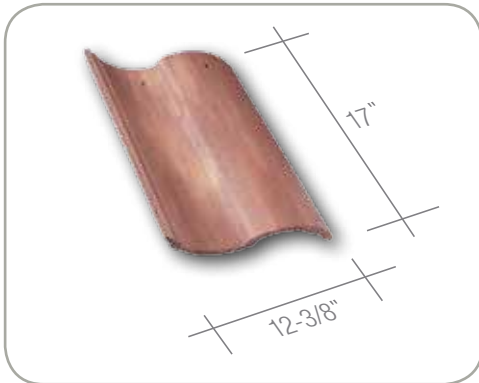
Stone Mountain Blend

600: 2FBCF5354 / 700: 3FBCF5354



CRRC ID# – 0942-0047
Reflectance: 0.17 / Emittance: 0.90 / SRI: 15

España® 600



España 600 reflects the classic style and distinctiveness of Spanish architecture, popular in the early California missions that stretched from San Diego de Alcalá to San Francisco Solamo. These spectacular roof tile designs are an ideal roofing compliment to Mission, Mediterranean or Old World architectural styling, with their wide range of diverse color blends found in the España 600 series.

Coverage	Installed Weight / Square
At 3" minimum headlap, 89 field tiles will cover approx. 100 square feet of roof area.	Approx.: España 600: 590 lbs.



California Mission Blend



Terra Cotta Flashed



Casa Grande Blend, Boosted Barcelona Caps

California Mission Blend

2ESCS6464



CRRC ID# – 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Casa Grande Blend

2ESCS6169



CRRC ID# – 0942-0014
Reflectance: 0.23 / Emittance: 0.91 / SRI: 24

Terra Cotta Flashed

2ESCS6300



CRRC ID# – 0942-0018
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

New Clay

2ESCS6931



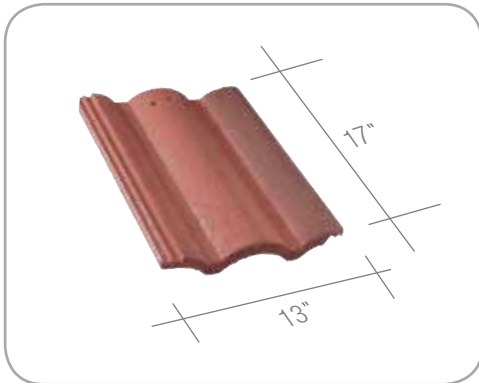
CRRC ID# – 0942-0021
Reflectance: 0.25 / Emittance: 0.93 / SRI: 27



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California Mission Blend

Villa 600



Villa 600 embodies the architectural style of Italy and Southern France by recreating the beautiful, small barrel Mediterranean aesthetics that has made this profile one of our most popular choices.

Coverage	Installed Weight / Square
At 3" minimum headlap, 87 field tiles will cover approx. 100 square feet of roof area.	Approx.: Villa 600: 580 lbs.



Casa Grande Blend

2VICS6169



CRRC ID# - 0942-0014
Reflectance: 0.23 / Emittance: 0.91 / SRI: 24

Sedona Gold Slurry Finish

2VISS6566



CRRC ID# - 0942-0026
Reflectance: 0.44 / Emittance: 0.92 / SRI: 51

Pacific Red Blend Slurry Finish

2VIBS7161



CRRC ID# - 0942-0025
Reflectance: 0.33 / Emittance: 0.92 / SRI: 37

Terra Cotta Gold

2VICS6440



CRRC ID# - 0942-0023
Reflectance: 0.23 / Emittance: 0.91 / SRI: 23

Terra Cotta Flashed

2VICS6300



CRRC ID# - 0942-0018
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Granite Grey

2VICS5309



CRRC ID# - 0942-0086
Reflectance: 0.11 / Emittance: 0.92 / SRI: 9



Terra Cotta Flashed



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Finishing Touches

Boral Roofing provides all of the products for a durable and beautiful roof installation. Our precision production techniques ensure that our trim tile provides a consistent look and beautiful finishing touch to your project. Utilizing Boral Roofing's trim products is also the most efficient way to complete your roof since it reduces the labor time and expense of mixing colored mortar on site to finish the roof. In addition to rake and ridge pieces, Boral Roofing manufactures hip starters and apex tiles that ease installation. All of Boral Roofing's trim products are protected by our Limited Lifetime, Fully Transferable, Non-Prorated Product Warranty.*

Cedarlite® 600 Madera 700

90° Rake

V-Ridge

Tapered Eave
Starter



Saxony® 600 & 700

90° Rake

3-Sided Ridge

3-Sided Hip
Starter

Apex 3-Way

Apex 4-Way



España® 600

Capri Trim

Capri Hip
Starter

Capri Apex
3-Way



Villa 600

Capri Trim

Capri Hip
Starter

Capri Apex
3-Way



*Please refer to the Boral Limited Lifetime, Fully Transferable, Non-Prorated Product Warranty; details found on our website.

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 reinforcing 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

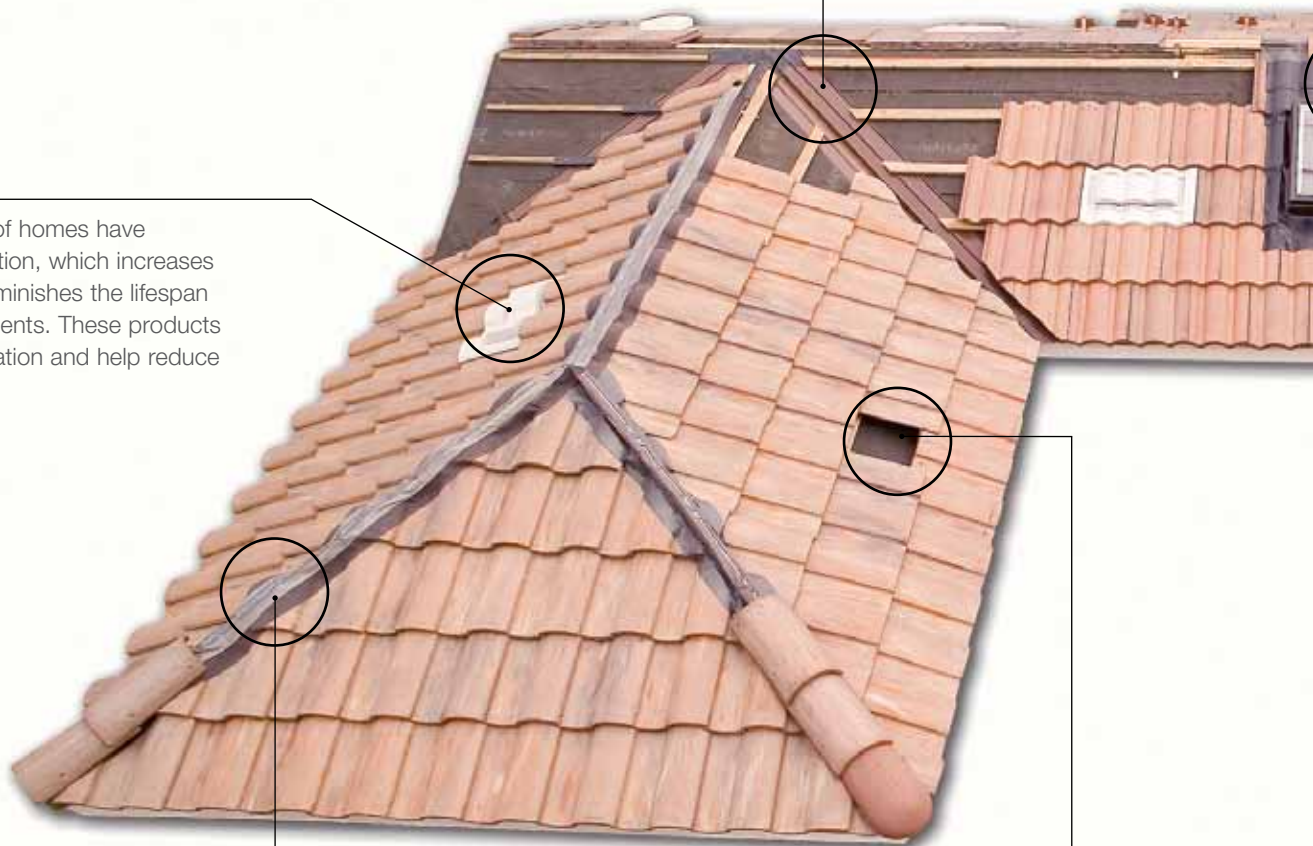
It is estimated 75% of homes have deficient attic ventilation, which increases energy costs and diminishes the lifespan of roofing underlayments. These products ensure proper ventilation and help reduce energy costs.

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.

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.



Fasteners

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

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 protection 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 Systems

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

How does it work?



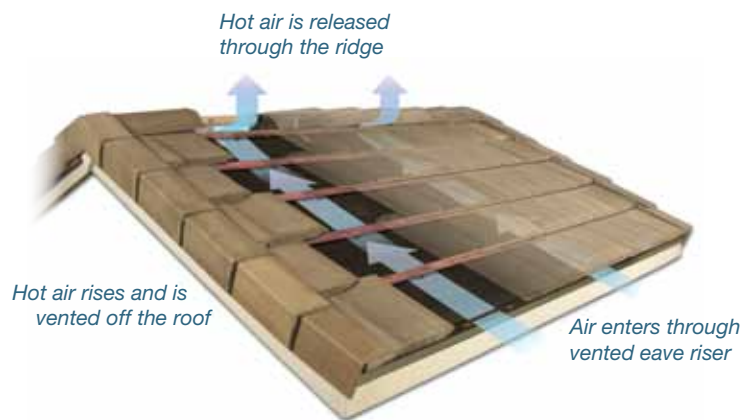
Tile roofs are highly insulating and prevent much of the sun's heat from penetrating the building. Boral offers tiles in a wide range of profiles in highly reflective colors and certain tiles meet Energy Star and U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) rating.

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 goes 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.




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

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.* 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.**

 Concrete Tile Roof with Energy Efficient Roof System	Asphalt Shingle Roof
 <p>Attic Space 94° †</p> <p>Less Cooling Needs Lower Energy Bill</p>	 <p>Attic Space 139° †</p> <p>High Cooling Needs Higher Energy Bill</p>
<p>Up to Approximately \$20,000 in savings over 30 years**</p> <p>† Temperatures measured in simulated attics using identical heat sources simulating sun's radiation to compare Boral's Energy Efficient Roof System to common asphalt shingle roof system.</p>	

*Steep-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.

**Results 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.

Eco-Responsible

HIGHLY ENERGY EFFICIENT ROOF SYSTEM COMBINING EARTH FRIENDLY MATERIALS WITH ENERGY STAR RATED ROOF TILES

Energy Star rated roof tiles combined with innovative roof ventilation provide a highly energy efficient roof system. Eco-friendly materials such as concrete or clay, sustainably harvested wood and recycled materials are used to build a system that will last longer. The Elevated Batten System™ combined with StrongSeal® recycled tire rubber underlayment provides superior protection against leaks and contains no asphalt.



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.* 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.



Contractor's Choice

AFFORDABLE SYSTEM FOR THE COST-CONSCIOUS

This is an affordable energy saving* 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.



1 Concrete Tile

- Highly efficient material due to high thermal mass and insulating air space beneath the tiles
- Class A fire rated
- Resistant to rain, snow, hail, fire, noise and high winds - see our Warranties for details***

2 Underlayment

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

3 Elevated Batten System™ (EBS)

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

4 Vented Ridge

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

5 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



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
949 756 1605

Customer Service

800 669 TILE (8453)

ABOUT BORAL ROOFING

Boral Roofing is a division of Boral USA, 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 US 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.



Sales Offices

Phoenix, ARIZONA

Corona, CALIFORNIA

Gilroy, CALIFORNIA

Lathrop, CALIFORNIA

Stockton, CALIFORNIA

Rialto, CALIFORNIA

Denver, COLORADO

Pompano Beach, FLORIDA

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Atlanta, GEORGIA

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Kansas City, MISSOURI

Henderson, NEVADA

Katy, TEXAS

Tacoma, WASHINGTON

www.boralna.com



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