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

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 under the About/Cool Roof Tile Products.

Energy Star is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy designed to lower energy cost and protects the environment through energy efficient products and practices. A wide variety of Boral Roofing Concrete Tiles meet or exceed the Energy Star reflectivity threshold, making homes more energy efficient and therefore more comfortable in every season and less costly to heat and cool. For current products that are Energy Star certified, please visit http://www.energystar.gov/products/certified-products and search for Boral under the Roof Products.
Barcelona is designed to reflect the classic style and distinctiveness of Spanish architecture, popular in the early California missions that stretched from Santa Barbara to San Juan Capistrano.

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

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Installed Weight/Square</th>
<th>Pieces/Pallet</th>
<th>Squares/Pallet</th>
<th>Weight/Pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 3&quot; minimum headlap, 89 field tiles will cover approx. 100 square feet of roof area.</td>
<td>Approx: 900 lbs.</td>
<td>264</td>
<td>2.97</td>
<td>Approx: 3,130 lbs.</td>
</tr>
</tbody>
</table>
The printed colors shown in this brochure may vary from actual available tile colors. Always use actual product samples for color selection.
Boosted Barcelona Caps

Boosted Barcelona Caps is an available installation application and when combined with Barcelona 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

<table>
<thead>
<tr>
<th>CRRC ID#</th>
<th>Reflectance</th>
<th>Emittance</th>
<th>SRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckskin 1BECS0141K</td>
<td>0.22</td>
<td>0.90</td>
<td>22</td>
</tr>
<tr>
<td>Cliffside 1BECS3940K</td>
<td>0.19</td>
<td>0.91</td>
<td>18</td>
</tr>
<tr>
<td>California Mission Blend 1BECS6464K</td>
<td>0.19</td>
<td>0.91</td>
<td>18</td>
</tr>
<tr>
<td>Gulfstream 1BECS4960K</td>
<td>0.21</td>
<td>0.91</td>
<td>21</td>
</tr>
</tbody>
</table>

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<tr>
<th>Installed Weight / Square</th>
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<tbody>
<tr>
<td>10% - Approx. 9 caps per sq. 940 - 950 lbs.</td>
<td>271</td>
<td>Approx: 1,535 lbs.</td>
</tr>
<tr>
<td>20% - Approx. 18 caps per sq. 980 - 1000 lbs.</td>
<td>271</td>
<td>Approx: 1,535 lbs.</td>
</tr>
<tr>
<td>30% - Approx. 27 caps per sq. 1020 - 1050 lbs.</td>
<td>271</td>
<td>Approx: 1,535 lbs.</td>
</tr>
</tbody>
</table>
Saxony® 900 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.

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<td>At 3” minimum headlap, 85 field tiles will cover approx. 100 square feet of roof area.</td>
<td>Approx: 910 lbs.</td>
<td>288</td>
<td>3.39</td>
<td>Approx: 3,475 lbs.</td>
</tr>
</tbody>
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Saxony® 900 Slate

Desert Sage
1FACS0024
CRRC ID# – 0942-0022
Reflectance: 0.27 / Emittance: 0.93 / SRI: 29

California Mission Blend
1FACS6464
CRRC ID# – 0942-0008
Reflectance: 0.19 / Emittance: 0.91 / SRI: 18

Desert Terra Cotta
1FACS6101

Sandstorm
1FACS0026

The printed colors shown in this brochure may vary from actual available tile colors. Always use actual product samples for color selection.
Saxony Shake 900 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 900 Collection.

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**Desert Breeze**
CRRC ID# – 0942-0002
Reflectance: 0.15 / Emittance: 0.91 / SRI: 13

**Brown Blend**
CRRC ID# – 0942-0003
Reflectance: 0.20 / Emittance: 0.92 / SRI: 20

**Toffee**
CRRC ID# – 0942-0001
Reflectance: 0.15 / Emittance: 0.93 / SRI: 14

**Hickory**
CRRC ID# – 0942-0065
Reflectance: 0.15 / Emittance: 0.93 / SRI: 14

**Charcoal Brown Blend**
CRRC ID# – 0942-0005
Reflectance: 0.18 / Emittance: 0.91 / SRI: 17

**Charcoal Blend**
CRRC ID# – 0942-0072
Reflectance: 0.17 / Emittance: 0.91 / SRI: 16

**Shake Brown Blend**
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.

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</thead>
<tbody>
<tr>
<td>At 3-1/2&quot; minimum headlap, 120 field tiles will cover approx. 100 square feet of roof area.</td>
<td>Approx: 950 lbs.</td>
<td>360</td>
<td>3</td>
<td>Approx: 3,010 lbs.</td>
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</table>

Autumnwood
1MDCL3002

CRRC ID# – 0942-0070
Reflectance: 0.13 / Emittance: 0.87 / SRI: 8

Mountainwood
1MDCL5001

CRRC ID# – 0942-0110
Reflectance: 0.08 / Emittance: 0.93 / SRI: 5

Vintagewood
1MDCL5011

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

The printed colors shown in this brochure may vary from actual available tile colors. Always use actual product samples for color selection.
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

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**Barcelona**

<table>
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<tr>
<th>Capri Trim</th>
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<tbody>
<tr>
<td>1MACS</td>
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</table>

**Saxony® 900**

<table>
<thead>
<tr>
<th>Slate</th>
<th>90° Rake</th>
<th>3-Sided Ridge</th>
<th>3-Sided Hip Starter</th>
<th>Apex 3-Way</th>
</tr>
</thead>
<tbody>
<tr>
<td>1R9CS</td>
<td>1R3CS</td>
<td>1FHCS</td>
<td>13ACS</td>
<td></td>
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<tr>
<td>1R9CL</td>
<td>1R3CL</td>
<td>1FHCL</td>
<td>13ACL</td>
<td></td>
</tr>
</tbody>
</table>

**Madera 900**

<table>
<thead>
<tr>
<th>90° Rake</th>
<th>V-Ridge</th>
<th>Tapered Eave Starter</th>
</tr>
</thead>
<tbody>
<tr>
<td>19CCL</td>
<td>1VCCL</td>
<td>1CECL</td>
</tr>
</tbody>
</table>

*Please refer to 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 “breatheability” of a tile roof
- Helps prevent water damage
- Increases airflow and ventilation
- Provides aesthetically pleasing design elements

When installing a new tile roof or reroofing, choosing to upgrade a few components can make a big difference. Make your roof a Boral™ Cool Roof System by including a few select Boral components that ventilate and help protect the roof system. Choose a roof system that will perform better and last longer.

Valleys

Boral’s valley products are designed for tile roofs with ribs that support the tiles and channel water off the roof.

Hip & Ridge

Hip and ridge weather blocking helps prevent wind-driven rain, snow and other debris from entering the peaks and corners of a roof. Boral’s vented ridge products enhance the breatheability of the roof system.

Fasteners & Tools

Boral offers the QuikDrive® screw gun and roofing specific screws for fast, easy and reliable fastening.

For complete list of Roof System Components or to order catalog please visit www.BoralRoofComponents.com
Our Elevated Battens are a crucial part of the Boral™ Cool Roof System and improve the performance of any tile installation. They provide positive anchoring for each tile and raise the tiles off the roof deck to provide ventilation and the unrestricted drainage of any moisture on the underlayment.

Proper flashings prevent water, snow and debris from entering joints where the walls meet the roof deck. Boral's Wakaflex® flashing material is the top choice for these critical areas of the roof.

Underlayments provide a secondary level of protection directly on top of the roof deck. Boral offers a range of high quality underlayments for better protection and peace of mind.

Boral's eave products create a finished look for the roof and enhance its overall functionality. Elevating the first course of tiles to the proper height completes the overall aesthetic of the roof and helps protect against infestation.

Boral’s alternative to rake tiles provide aesthetic options and protection against weather, animal infestation and debris accumulation.
Boral™ Cool Roof System

Why should you choose a Boral™ Cool 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 tile roof system breathe will also make it last longer than traditional roof construction.

How much could you save?

According to Oak Ridge National Laboratory, an independent testing agency, 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 Cool 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

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

The Boral Cool Roof System allows 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 does it work?

How much could you save?

1 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.

2 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.

### 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.

### 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 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.

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#### 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 lasting

#### Elevated Batten System (EBS)
- Elevates tiles to allow free flow of air and water
- Provides effective thermal barrier and ventilation

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*Boral Roofing concrete tiles are covered by Limited Lifetime Warranty - see our website www.BoralRoof.com for details.*
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 12 clay and concrete tile manufacturing plants throughout the U.S.

ABOUT BORAL USA
Headquartered in Roswell, Georgia, Boral USA, through its subsidiaries, is a leading manufacturer in the building materials industry. Boral USA’s subsidiaries include Boral Bricks Inc., a leading manufacturer of brick in the United States; Boral Roofing LLC, the nation’s leading manufacturer of clay and concrete roof tiles; Boral Stone Products LLC, manufacturer of Cultured Stone® by Boral®, the most recognized brand of manufactured stone veneer, and Boral Versetta Stone®, the leading brand of mortarless stone veneer; Boral Material Technologies LLC, a leading marketer of coal combustion byproducts; and Boral Composites Inc., manufacturer of Boral TruExterior® Siding and Trim, pioneer of the innovative poly-ash category of exterior building products.

Build something great™ with Boral®
Stone | Brick | Trim | Siding | Roofing
www.BoralAmerica.com