Barcelona

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

<table>
<thead>
<tr>
<th>Cover: Barcelona Amada Blend</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amada Blend</strong> 1BCAS3108</td>
</tr>
<tr>
<td>CRRC Rated Product - 0942-0119</td>
</tr>
<tr>
<td>Reflectance: 0.19 / Emittance: 0.85 / SRI: 15</td>
</tr>
<tr>
<td><strong>Kern Canyon Blend</strong> 1BCAS5111</td>
</tr>
<tr>
<td>CRRC Rated Product - 0942-0128</td>
</tr>
<tr>
<td>Reflectance: 0.15 / Emittance: 0.86 / SRI: 11</td>
</tr>
<tr>
<td><strong>Via Rocco</strong> 1BCAS7026</td>
</tr>
</tbody>
</table>

Villa

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

<table>
<thead>
<tr>
<th>Cover: Barcelona Amada Blend</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Kern Canyon Blend</strong> 1VIAS5111</td>
</tr>
<tr>
<td>CRRC Rated Product - 0942-0119</td>
</tr>
<tr>
<td>Reflectance: 0.19 / Emittance: 0.85 / SRI: 15</td>
</tr>
<tr>
<td><strong>San Miguel Blend</strong> 1VIAS6151</td>
</tr>
<tr>
<td>CRRC Rated Product - 0942-0084</td>
</tr>
<tr>
<td>Reflectance: 0.28 / Emittance: 0.92 / SRI: 30</td>
</tr>
<tr>
<td><strong>Goldenrod Flash</strong> 1VIAS6118</td>
</tr>
</tbody>
</table>

The printed colors shown in this cut sheet may vary from actual available tile colors.
Saxony® **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.

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Installed Weight / Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 3&quot; minimum headlap. 85 field tiles will cover approx. 100 square feet of roof area.</td>
<td>Approx.: 910 lbs.</td>
</tr>
</tbody>
</table>

**Whitney Grey**

1FEAY5110

**Kern Canyon Blend**

1FEAY5111

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Saxony® **Shake**

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

**Kern Canyon Blend**

1FBAF5111

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**Villa Goldenrod Flash**
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.

The Harmful Effect of Smog
Air quality is a serious, increasing concern in the United States. The American Lung Association recently reported that more than 175 million Americans (roughly 58 percent) are often exposed to pollution levels too dangerous to breathe.¹

¹“State of the Air 2010” by the American Lung Association

The Formation of Smog
During exposure to sunlight, smog is formed when Nitrogen Oxides (NOx) in the atmosphere combine with Volatile Organic Compounds (VOCs).

NOx: Results from the burning of fossil fuels including industrial processes, automobiles or non-road vehicles.
VOCs: Carbon-containing compounds released by the evaporation of petroleum products, or carcinogenic compounds like benzene and butadiene.
**Benefits of Concrete Tile**

**A Premium Sustainable Choice**

BoralPure™ Smog Eating Tile is a versatile, earth-friendly product well suited for any project in that it is:

- Made primarily from locally-sourced natural raw materials such as sand and water
- Produced in eco-conscious manufacturing plants implementing low energy and low waste practices
- A lifetime product in that concrete tile is fully recyclable during the manufacturing process and after use, and can be crushed for use in the creation of new roads and structures

**Protection Against Harsh Weather, Hail and Fire**

Concrete roof tile is proven to meet the highest performance standards for severe weather conditions. Class A fire-rated and hail-tested up to Class 3, concrete tile may qualify for insurance reductions for homeowners. Check with your local insurance provider.

**Helps To Reduce Your Energy Bill**

Concrete tile, when installed with Boral’s Energy Efficient Roof System, can help you save up to 22% in energy costs. The roof system helps keep your home warmer in the winter, cooler in summer and can help reduce your heat and air conditioning bills.5

**Long-Lasting**

Concrete tile is long-lasting and requires little to no maintenance. Backed by a Limited Lifetime, Transferable Warranty, Boral Roofing Concrete Roof Tiles are a long-term solution, providing added value to current and future owners.6

**Note:** BoralPure™ tile is installed using the same techniques as traditional concrete roof tile installations.

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5 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.

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

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.

How Does it Work?

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

BoralPure™ Smog Eating Tile represents one real way for builders, architects and owners to help reduce our smog footprint as well as some of the adverse effects of smog.

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.

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