



# Boral Stone Products Manufactured Stone Veneer

## HELPING YOU ACHIEVE LEED® CERTIFICATION

Boral Manufactured Stone Veneer Products help improve thermal performance in commercial, institutional and high-rise residential buildings while adding to the aesthetic appeal of the project. This document applies to the LEED New Construction and Major Renovations, LEED Commercial Interiors, LEED Core & Shell, LEED for Schools and LEED for Existing Buildings, Operations & Maintenance products. As you pursue LEED Certification, rely on the products and expertise of Boral Stone Products.

LEED Certification and the awarding of credits is based on the overall project design, properly designed building systems and construction assemblies and the performance of the project as a whole. Boral Manufactured Stone Veneer Products can be a component of many of these systems and assemblies, with all components within those systems and assemblies being considered in assessing compliance with the LEED Rating System within a given category and credit. Boral Manufactured Stone Veneer Products contribute to the categories listed below.

### Boral Stone Products:

- Cultured Brick® Manufactured Brick
- Cultured Stone® Manufactured Stone Veneer
- ProStone® Manufactured Stone Veneer

**Table 1 (Chart continued on next page)**

Contribution to LEED Requirement

LEED Credit Category	LEED Requirement	Boral Stone Products Product Contribution
<b>Energy and Atmosphere (EA)–</b> Prerequisite 2: Minimum Energy Performance  Credit 1: Optimize Energy Performance (1-19 points)	10% performance improvement for new buildings or 5% better performance for renovated existing buildings, with baseline building performance rating calculated per method in Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007 for whole building simulation.  Improve building performance rating compared with the baseline building performance rating, calculated per Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007 a whole project simulation model, with points awarded per energy cost savings in LEED table.	Boral Stone Products help reduce building energy demand while improving thermal comfort for the occupants. The project team is responsible for conducting the energy analysis to determine the overall building energy efficiency.  Boral Stone Products helps reduce building energy demand and improve thermal comfort. The overall contribution depends on the insulation R-value, the U-value of the construction assembly, and the assembly design. The project team is responsible for conducting the energy analysis to determine the overall building energy efficiency.
<b>Materials &amp; Resources (MR)–</b> Credit 4: Recycled Content (1-2 points)  Credit 5: Regional Material (1-2 points)	Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% (1 point) or 20% (2 points), based on cost, of the total value of the materials in the project.  Materials/products extracted and manufactured (or fraction thereof) within 500 miles of project site for a minimum of 10% (1 point) or 20% (2 points), based on cost, of the total materials value (fractional quantities contribute as percentage by weight).	Boral Stone Products contain a minimum of 54% pre-consumer recycled content. Recycled content validation by UL Environment: <a href="http://www.ulenvironment.com">www.ulenvironment.com</a> .  Boral Stone Products, made in 2 U.S. manufacturing plants, provide regionally available material manufactured and sourced within a 500 mile radius of project locations in many areas of the country. Boral Stone Products plant locations are shown in Fig. 1 with approximate 500-mile radii for each plant. Visit <a href="http://www.boralna.com">www.boralna.com</a> for additional information.

**Table I (Continued)**

Contribution to LEED Requirement

LEED Credit Category	LEED Requirement	Boral Stone Products Product Contribution
<b>Indoor Environmental Quality (IEQ)–</b> Credit 4.6: Low Emitting Materials (1-4 points)  Credit 7 & 7.1: Thermal Comfort (1 point each)	Meet California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda for all interior products, including insulation.  Design HVAC systems and building envelope to meet the requirements of ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy. Demonstrate design compliance in accordance with the Section 6.1.1 documentation.	Boral Stone Products are GREENGUARD Certified for Low Emitting Products: IAQ and Children and Schools. Additional verification can be found at <a href="http://www.greenguard.org">www.greenguard.org</a> .  Boral Stone Products contribute to a comfortable thermal environment.
<b>Innovation in Design (ID)–</b> (1-4 points)	Credit can be achieved through any combination of the Innovation in Design and Exemplary Performance.	Refer to individual product data sheets or check with the local sales representative for product applications.

Note: No individual material enables a credit point to be taken within LEED because each category is dependent on the aggregate of all materials and their proportionate relationship to the total dollar cost of all materials.

**Figure I**

Boral Stone Products Plant Locations



To learn more about Boral Stone Products  
 visit [www.boralna.com](http://www.boralna.com)

**Build something great™ with Boral**

- Roof tiles
- Roof Accessories
- Bricks
- Pavers
- Stone

Explore the product range online  
[www.boralna.com](http://www.boralna.com)

Pub. No. 10011710-C. Printed in U.S.A. May 2011.  
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