

## **Glacier Stone's Contribution toward LEED Certification**

The U. S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) certification program provides many incentives to firms that design their projects to achieve environmental performance. Incentives include the establishment as a recognized leader in the green building sector, the validation of achievement through third party review, qualification for a growing array of state and local government incentives, contribution of a green building knowledge base and earning LEED certification and a certification plaque. Details pertaining to the LEED incentive and certification process can be found at [www.usgbc.org](http://www.usgbc.org). Glacier Stone's products can aid architectural/design firms in obtaining points toward LEED Certification for their projects.

Under the LEED-NC Version 2.1 Rating System\*, Glacier Stone can contribute points toward the Construction Waste Management, Resource Reuse and Regional Materials Categories detailed as follows:

### **Qualities of Glacier Stone Supply Natural Stone:**

- The quarrying and fabrication process of stone veneer produces very little pollution/waste and is energy efficient compared to the massive quantities of electricity and oil used in making competitive construction materials such as synthetic stone, cement, ceramic, metal, plastic and glass. Therefore, pollution waste is reduced by the minimal use of pollutants and the fair amount of water usage. Virgin resource consumption is reduced by using stone rather than comparable pollution producing materials.
- Stone lasts for centuries, so renovation and replacement is not required in the long term.
- There is no waste in the quarrying and fabrication of natural stone. Full stone is chopped or cut to specific size products. Project overruns can be cut into pavers and cobblestones with the run off of that turned into crushed stone. When quarries have become obsolete they can be refilled and converted into forested/life giving or agricultural lands.
- Water filtration is employed during the initial cutting procedure to recycle the consumed water. As such, water is reused and reduces the demand of water.
- The beauty of natural stone coupled with its physical strength and chemical resistance makes it the material of choice in construction applications.
- Natural stone provides a strong thermal mass which impacts ambient air temperature therefore promoting energy efficiency.

## LEED Credits Available

| LEED Category                                      | LEED Points | Intent   | GSS Natural Stone Solution   |
|--|-------------|--|--|
| <b>EA Credit 1<br/>Optimize Energy Performance</b> | 1-10 Points | Achieve increasing levels of energy performance above baseline in prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.   | Natural stone has a good thermal mass, which positively impact indoor ambient air temperature and thus, energy efficiency  |
| <b>SS Credit &amp; 7.1<br/>Heat Island Effect</b>  | 1 Point     | Reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate and human and wildlife habitat   | Using light colored stone with a solar reflective index of 29 or greater can reduce heat-island effect   |
| <b>MR Credit 1.1 &amp; 1.2</b>                     | 1 Point     | Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport  | These credits apply if the life-cycle of existing building stock can be maintained in a project. Natural stone's durability leads to the ability to re-use existing stone                      |
| <b>MR Credit 2.1 &amp; 2.2</b>                     | 1 Point     | Divert construction debris from landfill disposal, redirect recyclable recovered resources back to the manufacturing process and redirect reusable materials to appropriate sites.                                       | These credits apply if "waste" stone used in construction is diverted to a beneficial use rather than being disposed. Natural stone's durability leads to the ability to re-use existing stone |
| <b>MR Credit 5</b>                                 | 1-2 Points  | Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the regional economy and reducing the environmental impacts resulting from transportation. | Locations within 500 miles of our manufacturing facilities can qualify for these credits   |
| <b>ID Credit 1</b>                                 | 1-4 Points  | To provide design teams and projects the opportunity to be awarded points for exceptional performance above the requirements set by the LEED.  | Use of natural stone may contribute to exceptional performance in areas such as life-cycle cost and durability, mold resistance, and improved air quality.                                     |