

# Concrete Products and LEED® 2009

*These solutions may help contribute LEED points to your project*

| LEED Credit                            | Credit Description                           | Points   | SPEC-GREEN Solution  |
|--|--|----------|--|
| Sustainable Sites<br>SS Prerequisite 1 | Construction Activity Pollution Prevention   | Required | Using retaining walls and articulated concrete blocks to prevent erosion of site soils may assist in meeting this prerequisite   |
| Sustainable Sites<br>SS Credit 1       | Site Selection                               | 1        | Segmental Retaining Walls facilitate efficient development by minimizing the footprint of the developed portion of a site, and help allow preservation of wetlands and other sensitive areas on a site.  |
| Sustainable Sites<br>SS Credit 2       | Development Density & Community Connectivity | 1        | Segmental retaining walls facilitate development of sites in dense urban areas by maximizing buildable area in hilly terrain.  |
| Sustainable Sites<br>SS Credit 5.1     | Site Development: Protect or Restore Habitat | 1        | Use segmental retaining walls to maximize usable area in the developed portion of the site and to preserve natural area  |
| Sustainable Sites<br>SS Credit 5.2:    | Site Development: Maximize Open Space        | 1        | Use segmental retaining walls, articulated concrete blocks and concrete grid pavers to preserve, protect and vegetate open space   |
| Sustainable Sites<br>SS Credit 6.1     | Stormwater Design: Quantity Control          | 1        | Use SPEC-PAVE permeable pavers or concrete grid pavers to reduce impervious surfaces to reduce runoff  |
| Sustainable Sites<br>SS Credit 6.2     | Stormwater Design: Quality Control           | 1        | Use SPEC-PAVE permeable pavers or concrete grid pavers to allow stormwater to seep through the paved surface into the stone sub-base where it is naturally cleaned.  |
| Sustainable Sites<br>SS Credit 7.1     | Heat Island Effect: Non-Roof                 | 1        | Interlocking concrete pavers can be manufactured to meet the SRI requirements of this provision. In addition, concrete grid pavers will perform this purpose well. Underground parking structures built of concrete masonry will also assist in earning this credit. |
| Sustainable Sites<br>SS Credit 7.1     | Heat Island Effect: Roof                     | 1        | Roof paving products with high albedo value.   |
| Energy & Atmosphere<br>EA Credit 1:    | Optimize Energy Performance                  | 1-19     | Use SPEC-THERMAL insulated concrete masonry to construct an energy efficient building envelope.  |



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| Materials & Resources<br>MR Credit 1         | Building Reuse: Maintain 55%/75%/95% of Existing Walls, Floors & Roof      | 1-3    | Concrete masonry's durability facilitates reuse of existing structures.   |
| Materials & Resources<br>MR Credit 1.2       | Building Reuse: Maintain 50% of Interior Non-Structural Elements           | 1      | Concrete masonry's durability facilitates reuse of existing structures.   |
| Materials & Resources<br>MR Credit 2.1 & 2.2 | Construction Waste Management: Divert 50%/75% From Disposal                | 1/1    | Unused concrete masonry products can be redirected to the manufacturing process either for reuse or recycling. Waste masonry or concrete products also can be used as clean fill at the construction site, or crushed into aggregates for use as backfill or base material.   |
| Materials & Resources<br>MR Credit 3.1 & 3.2 | Materials Reuse: 5%/10%  | 1/1    | Segmental retaining walls, interlocking concrete pavers, and articulated concrete blocks can be disassembled and reused. Concrete masonry can be crushed and reused as clean fill, base material or aggregate for use in recycled content concrete or concrete products.  |
| Materials & Resources<br>MR Credit 4.1 & 4.2 | Recycled Content: 10%/20% (post-consumer + 1/2 pre-consumer)               | 1/1    | Concrete products can be manufactured with recycled materials. Check with your local producer to see what recycled content products they offer.   |
| Materials & Resources<br>MR Credit 5.1 & 5.2 | Regional Materials: 10%/20% Extracted, Processed & Manufactured Regionally | 1/1    | Most Concrete Products are made by local production facilities using sand, aggregates, water and cement from local sources. Your manufacturer can confirm the percentage of local origin of its products.   |
| Innovation & Design<br>ID Credits 1          | Innovation in Design   | 1-5    | Use concrete masonry with reduced cement content; use concrete masonry to reduce noise levels; use high albedo pavers to reduce lighting requirements in low light conditions; Use architectural concrete masonry for beautiful interiors that not only eliminate emissions from paint and stains but are highly resistant to mold. |

