



## Concrete Masonry Products and LEED® 2009

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

LEED Credit	Credit Description	GREEN Solution
Sustainable Sites SS Prerequisite 1	Construction Activity Pollution Prevention	Using retaining walls and articulated concrete blocks to prevent erosion of site soils may assist in meeting this prerequisite.
Sustainable Sites SS Credit 1	Site Selection	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 SS Credit 2	Development Density & Community Connectivity	Segmental Retaining Walls facilitate development of sites in dense urban areas by maximizing buildable area in hilly terrain.
Sustainable Sites SS Credit 5.1	Site Development Protect or Restore Habitat	Use Segmental Retaining Walls to maximize usable area in the developed portion of the site and to preserve natural area.
Sustainable Sites SS Credit 5.2	Site Development Maximize Open Space	Use Segmental Retaining Walls, articulated concrete blocks and concrete grid pavers to preserve, protect and vegetate open space.
Sustainable Sites SS Credit 6.1	Stormwater Design: Quantity Control	Use permeable pavers or concrete grid pavers to reduce impervious surfaces to reduce runoff.
Sustainable Sites SS Credit 6.2	Stormwater Design: Quantity Control	Use 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 SS Credit 7.1	Heat Island Effect: Non-Roof	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 SS Credit 7.1	Heat Island Effect: Roof	Roof paving products with high albedo value.
Innovation & Design ID Credits 1	Innovation in Design	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.

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LEED Credit	Credit Description	GREEN Solution
Materials & Resources MR Credit 1	Building Reuse: Maintain 55% / 75% / 95% of Existing Walls, Floors & Roof	Concrete masonry's durability facilitates reuse of existing structures.
Materials & Resources MR Credit 1.2	Building Reuse: Maintain 50% of Interior Non-Structural Elements	Concrete masonry's durability facilitates reuse of existing structures.
Materials & Resources MR Credit 2.1 & 2.2	Construction Waste Management: Divert 50% / 75% From Disposal	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 MR Credit 3.1 & 3.2	Materials Reuse: 5% / 10%	Segmental Retaining Walls, Interlocking concrete pavers, 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 MR Credit 4.1 & 4.2	Recycled Content: 10% / 20% (post-consumer + 1/2 pre-consumer)	Concrete products can be manufactured with recycled materials. Check with your local producer to see what recycled content products they offer.
Materials & Resources MR Credit 5.1 & 5.2	Regional Materials: 10% / 20% Extracted, Processed & Manufactured Regionally	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.
Energy & Atmosphere EA Credit 1	Optimize Energy Performance	Use insulated concrete masonry to construct an energy efficient building envelope. Construction in Zones 1 and 2 on map below may be eligible for this credit without the need for additional insulation due to thermal mass effect of masonry construction.

## CMU walls comply with energy codes for commercial buildings in many climates WITHOUT the addition of continuous insulation

### Climate Zones 1 and 2:

No insulation required for mass walls.  
ASHRAE 90.1 UValue R 1.7

### Climate Zones 3 and 4:

Fill ungrouted cells with insulation such as vermiculite, perlite or foamed in place.  
ASHRAE 90.1 UValue R 6.6

