Oldcastle®
ADAMS™
PRODUCTS

LEED WITH ADAMS

Sustainable thinking for
a greener tomorrow

For over 60 years Oldcastle Adams Products has been providing building solutions that stand the test of time. Quite simply, no one can give you concrete solutions like us.

Concrete solutions are sustainable solutions which can provide you with exceptional GREEN BUILDINGS. For over 15 years Oldcastle Adams Products has been providing recycled concrete masonry units and recycling or salvaging construction waste as a better way to utilize our resources. The material has been available in the residential market for over 15 years. It was introduced to the commercial market in 1997. The EPA Headquarters at RTP, NC was built with Recycled Lightweight Concrete Masonry Units. Over 1,000,000 units were used for this project. Also on this project we introduced the jobsite recycling program. This project was considered a prototype for the federal government and HOK Architects.

If you are looking for Innovative and Environmentally Friendly Masonry Solutions utilize GREENLINE® 31 CONCRETE MASONRY UNITS and GREENLINE® RECYCLING PROGRAM for your next LEED® project.

- Recycled content
- Regionally, extracted, processed & manufactured
- Load-bearing & non-load bearing walls
- Exceptional structural integrity
- Unmatched durability
- High thermal mass benefits
- Fire rated
- Mold and moisture resistant
- Low life cycle costs
- Design flexibility
- Natural resource conservation
- Aggregates indigenous to your region
- Lasts the life of your building
- Also available in sound-absorbing units

LEED and Oldcastle Adams Products is promoting green to conserve yours.

The Leadership in Energy and Environmental Design (LEED) was originally developed for the U. S. Department of Energy. LEED utilizes a point rating system to recognize sustainable site and building design. Many organizations were involved in developing the rating system and certification program. The LEED program is administered by the U. S. Green Building Council (www.usgbc.org).Currently, many municipal projects that are city, state or federally owned or city, state or federally funded are mandating LEED point objectives, while private sector projects are pursuing LEED credit points on a voluntary basis.

Oldcastle Adams Products GREENLINE 31 RECYCLING PROGAM and GREENLINE CONCRETE MASONRY UNITS can earn credit points in the LEED rating system. The following listed LEED credit summaries represent possible point contributions. Please refer to the NCMA (National Concrete Masonry Association) NCMA TEK 6-9B Concrete Masonry and the LEED Program available on www.adamsproducts.com: E-TEK for a complete description and detailed explanation of the below listed LEED Credit references.

Energy & Atmosphere Credit 1: Optimize Energy Performance 1–10 Points. Two (2) points mandatory for all LEED for New Construction projects registered after June 26, 2007

The intent here is to improve energy efficiency above baseline prerequisites (ASHRAE 90.1-2004, ref. 3) in the LEED system. Energy savings attributable to thermal mass inherent in concrete masonry construction contribute to this goal when used in conjunction with passive solar heating and/or ventilation cooling. Because concrete masonry has high thermal mass and specific heat, it provides very effective thermal storage. Masonry walls remain warm or cool long after the heat or air-conditioning has shut off. This, in turn, can effectively; reduce heating and cooling loads; improve occupant comfort by moderating indoor temperature swings; and shift peak heating and cooling loads to off-peak hours.

Materials & Resources Credit 1.1: Building Reuse: Maintain 75% of Existing Walls, Floors & Roof (1 Point). Materials & Resources Credit 1.2: Building Reuse: Maintain 95% of Existing Walls, Floors & Roof (1 Point in addition to MR Credit 1.1)

This credit is often obtainable when renovating buildings with exterior concrete masonry walls since concrete masonry is an exceptionally durable material with a life cycle measurably longer than many other building envelope products. Concrete masonry construction provides the opportunity to refurbish the building should the building use or function change, rather than tear down and start anew.

Materials & Resources Credit 2.1: Construction Waste Management: Divert 50% From Disposal (1 Point) Materials & Resources Credit 2.2: Construction Waste Management: Divert 75% From Disposal (1 Point in addition to MR Credit 2.1)

The construction waste management credit is awarded based on recycling or salvaging at least 50% of construction waste. Measurements are made either by weight or by volume. Because concrete masonry is a relatively heavy construction material and can be recycled into aggregate for road bases or other concrete products, pipe bedding or construction fill, this credit is obtainable either when buildings with concrete masonry are demolished or, in new construction when saw-cut scraps and broken pieces of concrete masonry are crushed and reused. In addition, intact and unused concrete masonry units can be redirected to other projects or donated to charitable organizations such as Habitat for Humanity.

Oldcastle Adams Products (Utilize Greenline Recycling Program)

Materials & Resources Credit 3.1: Materials Reuse: 5% (1 Point). Materials & Resources Credit 3.2: Materials Reuse: 10% (1 Point in addition to MR Credit 3.1)

This checklist item encourages the use of salvaged materials on the project site, such as crushed concrete masonry.

Oldcastle Adams Products (Utilize Greenline Recycling Program)

Materials & Resources Credit 4.1: Recycled Content: 10% (post-consumer + 1/2 pre-consumer) (1 point). Materials & Resources Credit 4.2: Recycled Content: 20% (post-consumer + 1/2 pre-consumer) (1 Point in addition to MR Credit 4.1)

The use of building products with recycled content can earn the project one or two LEED points. The requirements of this credit state: "use materials with recycled content such that the sum of post-consumer content plus one-half of the pre-consumer content constitutes at least 10% of the total value of the materials." The value of the recycled content portion is determined by multiplying the cost of the item by the percent of recycled materials in that item (based on weight). Note that to earn the credit, the project must meet the threshold percentage based on the total of all building materials used in the project. Post-consumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose. Pre-consumer material is defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

Oldcastle Adams Products Greenline 31 Recycled Lightweight Concrete Masonry Units contains 31% recycled content (29% pre-consumer and 2% post-consumer).

Materials & Resources Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally (1 Point). Materials & Resources Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally (1 Point in addition to MR Credit 5.1)

Using materials and products that are extracted and manufactured within the region support the use of indigenous resources and thereby reduce environment impacts of transportation. Concrete masonry materials are most commonly extracted and manufactured close to the jobsite, thus helping to fulfill this LEED checklist item.

Oldcastle Adams Products Greenline 31 Recycled Lightweight Concrete Masonry Units contains 100% extracted regional materials and 100% processed and manufactured regional materials within 500 miles.

Innovation & Design Process Credit 1-1.4: Innovation in Design (1-4 Points)

The intent of this item is to provide design teams with an incentive to go beyond the LEED requirements and/or to award points for innovative stratagies not specifically addressed in the LEED rating system.

REFERENCES
1. LEED® for New Construction & Major Renovations, Version 2.2, U. S. Green Building Council, October 2005.
2. NCMA TEK 6-9B Concrete Masonry and the LEED Program, National Concrete Masonry Association, 2006.

Greenline® Recycling Program

Materials & Resources Credit 2.1: Construction Waste Management: Divert 50% From Disposal (1 Point)
Materials & Resources Credit 2.2: Construction Waste Management: Divert 75% From Disposal (1 Point in addition to MR Credit 2.1)
The construction waste management credit is awarded based on recycling or salvaging at least 50% of construction waste. Measurements are made either by weight or by volume. Because concrete masonry is a relatively heavy construction material and can be recycled into aggregate for road bases or other concrete products, pipe bedding or construction fill, this credit is obtainable either when buildings with concrete masonry are demolished or, in new construction when saw-cut scraps and broken pieces of concrete masonry are crushed and reused. In addition, intact and unused concrete masonry units can be redirected to other projects or donated to charitable organizations such as Habitat for Humanity.

Materials & Resources Credit 3.1: Materials Reuse: 5% (1 Point)
Materials & Resources Credit 3.2: Materials Reuse: 10% (1 Point in addition to MR Credit 3.1)
This checklist item encourages the use of salvaged materials on the project site, such as crushed concrete masonry.

Oldcastle Adams Products Production Facilities and Recycling Center are set up to process construction waste and demolition material. On site is an independent crushing company which handles construction waste and demolition from local construction sites. Material is processed and sold to Oldcastle Adams Products for the recycled component for Greenline Recycled Concrete Masonry Units.

Rules for Construction Waste & Demolition Material

- Concrete masonry units & mortar
- Clay masonry units
- Concrete Ready Mix
- No wood products
- No Rebar, steel or metal products
- No plastic, paper or trash

Owners, Developers, General Contractors & Masonry Contractors are responsible for maintaining containers on job sites and hauling of containers to Oldcastle Adams Products Production Facilities and Recycling Centers.

Firms are responsible for coordinating with Outside Sales Representative and local Site Manager. On visual inspection, if any contaminated material is spotted, it is grounds for immediate rejection. Costs associated with rejection of materials are the responsibility of the firm who arranged for the recycling program.

www.adamsproducts.com www.oldcastlegreensolutions.com

ENVIRONMENTAL COUNCIL of CONCRETE ORGANIZATIONS

NATIONAL CONCRETE MASONRY ASSOCIATION
Sustainable Concrete Products for Structures and Hardscapes

U.S. GREEN BUILDING COUNCIL MEMBER

Production Facilities & Recycling Centers

Castle Hayne, NC
5225 Holly Shelter Road, Castle Hayne, NC 28429
(910) 675-2215, Fax: (910) 675-0357

Dunn, NC
192 Gateway Drive, Dunn, NC 28335
(910) 892-3267, Fax: (910) 897-4301

Kinston, NC
720 East New Bern Road, Kinston, NC 28501
(800) 682-5740, (252) 523-5136, Fax: (252) 523-1158

Morrisville, NC
5701 McCrimmon Parkway, Morrisville, NC 27560
(800) 672-3131, (919) 467-2218, Fax: (919) 469-0509

Myrtle Beach, SC
2517 Big Block Road, Myrtle Beach, SC 29588
(800) 222-6438, (843) 215-2900, Fax: (843) 215-1064

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