



*Athletic Surfacing...Synthetic Technology*

**LEED**



How A-Turf, Inc. Can  
Contribute To Obtaining  
LEED® Credits

August 2011

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**www.aturf.com or call 1-888-777-6910**

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## **Table of Contents**

- 3** LEED for New Construction  
Overview
- 4** LEED-NC: Materials and Resources  
Construction Waste Management
- 5** LEED-NC: Materials and Resources  
Recycled Content
- 6** LEED-NC: Materials and Resources  
Local/Regional Materials
- 7** LEED 2009 Credit Alignment  
The Key Differences and Similarities of  
LEED Rating Systems

# LEED for New Construction

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## Overview

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System represents the U.S. Green Building Council's effort to provide a national standard for what constitutes a "green" building. It is utilized as a design guideline and certification tool for architects and designers seeking to develop high-performance, sustainable buildings.

LEED for New Construction and Major Renovations (LEED-NC) is designed to guide and distinguish high-performance commercial and institutional projects.

The LEED rating system defines the requirements, by category (listed above), needed to achieve points under each area. Projects earn one or more points toward certification by meeting or exceeding each credit's technical requirements. Points compute to a final score that relates to one of four possible levels of certification: LEED Certified, LEED Silver, LEED Gold or LEED Platinum.

A-Turf's Synthetic Surfacing for athletic fields is designed to meet the stringent criteria required to help earn points under 1 of the 6 categories of LEED-NC. Based on this criteria, A-Turf products can assist architects and designers by potentially contributing toward earning up to 6 points toward LEED certification.

## LEED Credit areas Impacted by Flooring – NC 2.2

\*Note: The following chart is from LEED NC2.2. This will be updated accordingly for LEED 2012

Category	Credit Title	Credit Number	Points Attainable
Materials & Resources	Construction Waste Management – 50-75%	MR 2.1-2.2	1-2
	Recycled Content – 10-20%	MR 4.1-4.2	1-2
	Local/Regional Materials – 50-75%	MR 5.1-5.2	1-2

## NC

LEED for New Construction and Major Renovations is designed to guide and distinguish high performance commercial and institutional projects.

# LEED-NC: Materials and Resources

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## Construction Waste Management

### Definition of LEED-NC Credits

#### MR 2.1 & MR 2.2:

MR 2.1 ... (1 point)

- Recycle and/or salvage at least 50% of non-hazardous construction and demolition debris. Develop and implement a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or commingled. Calculations can be done by weight or volume but must be consistent throughout.

MR 2.2 ... (1 point in addition to MR 2.1)

- Recycle and salvage an additional 25% beyond MR 2.1 (75% total) of non-hazardous construction and demolition debris.

### How A-Turf can contribute:

- All selvages and overages can be packaged and shipped back at the owner's expense to ECORE's Redeux Reclamation Program in Lancaster, PA.
- The ECORE ShockPad and rubber granule infill may be packaged and shipped back at the owner's expense to ECORE's Redeux Reclamation Program in Lancaster, PA.

Customers must first submit an application to have their material accepted into the program. Both product scrap and old materials must be free of excessive adhesive and foreign contaminants, including stones, wood, concrete, asphalt, etc. Materials accepted into the Redeux program will be sorted, shredded, cleaned and ground for the next generation of recycled rubber flooring, underlayment and industrial products.

For more information on ECORE's Redeux program, including application and requirements, please email [redeux@ecoreintl.com](mailto:redeux@ecoreintl.com) or visit our website at [www.ecoreintl.com](http://www.ecoreintl.com).

### Potential Strategies:

Establish goals of diversion from disposal in landfills and incineration facilities and adopt a construction waste management plan to achieve these goals. Consider recycling cardboard, metal, brick, rubber, mineral fiber panel, concrete, plastic, clean wood, glass, gypsum wallboard, carpet, and insulation. Designate a specific area on the construction site for segregated or commingled collection of recyclable materials, and track recycling efforts through the construction process.

# LEED-NC: Materials and Resources

## Recycled Content

### Definition of LEED-NC Credits

#### MR 4.1 & MR 4.2:

MR 4.1 ... (1 point)

- Use materials with recycled content such that the sum of post-consumer recycled content plus one half (the value of) the pre-consumer content constitutes at least 10% of the total value of the materials in the project.
- The value of the recycled content portion of a material or furnishing shall be determined by dividing the weight of recycled content in the item by the total weight of all material in the item, then multiplying the resulting percentage by the total value of the item.

MR 4.2 ... (1 point in addition to MR 4.1)

- Use materials with recycled content such that the sum of post-consumer recycled content plus one half (the value of) the pre-consumer content constitutes at least 20% of the total value of the materials in the project.

### How A-Turf can contribute:

A-Turf's Surfacing Systems are in part comprised of shredded and cleaned SBR tire rubber (100% post-consumer waste).

Recycled content is defined in accordance with the International Organization for Standardization® document, ISO 14021 – Environmental labels and declarations:

- Post-consumer material – waste materials diverted from the waste stream after consumer or commercial use.
- Pre-consumer material – materials diverted from the waste stream during the manufacturing process.

Excluded is regrind, rework, or scrap.

### Potential Strategies:

Establish a project goal for recycled content materials and identify material suppliers that can achieve this goal. During construction, ensure that the specified recycled content materials are installed and quantify the total percentage of recycled content materials installed.

## A-Turf Recycled Content

Product	Dimensions (mm)			Color	Recycled Content		
	Thickness	Length	Width		Total	Post-Consumer	Pre-Consumer
Rubber Infill	as specified	as specified	as specified	Black	75.0%	68.4%	6.6%
Rubber & Sand Infill	as specified	as specified	as specified	Black	42.0%	38.3%	3.7%
ShockPad	8 or 10	as specified	as specified	Black	88.88%	88.88%	0.0%

# LEED-NC: Materials and Resources

## Local/Regional Materials

### Definition of LEED-NC Credits

#### MR 5.1 & MR 5.2:

MR 5.1 ... (1 point)

- Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% (based on cost) of the total material value. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

MR 5.2 ... (1 point in addition to MR 5.1)

- Same as above but with a minimum of 20% of the total material value.

### How A-Turf can contribute:

A-Turf ShockPad and rubber system components are manufactured in Lancaster, PA.

### Potential Strategies:

Establish a project goal for locally sourced materials and identify materials and material suppliers that can achieve this goal. During construction, ensure that the specified local materials are installed and quantify the total percentage of local materials installed.



If you are located outside the 500 mile radius, in most cases A-Turf can source materials from your local area. Please call us for more information.

To determine if you qualify for this credit, please call 888-777-6910 for a complete listing of areas within a 500 mile radius.

# The Key Differences and Similarities of LEED Rating Systems

LEED 2009 is a new version of the rating system that delivers against key environmental and human health impacts, and puts in place a transparent framework for weighting credits accordingly, based on the best available science. LEED 2009 consists of credit alignment and harmonization; transparent environmental and

human impact credit weighting; regionalization; and a predictable development cycle. The organizational structure now being used to manage LEED makes many of the credits congruent across all rating systems. The following chart outlines the similarities and differences between the various LEED rating systems.

LEED - New Construction 2009 (NC)	LEED - Commercial Interiors 2009 (CI)	LEED - Existing Buildings 2009 (EB)
<b>General</b>		
Applies to whole buildings	Applies to tenant Improvements of new or existing office space	Applies to facility management policies and measured performance
<b>Materials and Resources</b>		
<b>MR Credit 2: Construction Waste Management - 1-2 pts.</b> <b>1 point</b> - 50% of construction debris diverted from landfills <b>1 additional point</b> - 75% of construction debris diverted from landfills	<b>MR Credit 2: Construction Waste Management - 1-2 pts.</b> Same requirements as LEED-NC Credit MR 2	<b>MR Credit 3: Sustainable Purchasing - Facility Alterations and Additions - 1 pt</b> 50% of total purchases achieving at least one of the criteria on the sustainability list during the performance period Points may be earned through at least one of the following criteria: - Purchases contain at least 10% post consumer and/or 20% postindustrial material - Adhesives meet VOC content limits of South Coast Air Quality Management District
<b>MR Credit 4: Recycled Content - 1-2 pts.</b> <b>1 point</b> - 10% of total project materials, by cost, contain recycled content (post + 1/2 pre-consumer) <b>1 additional point</b> - 20% of total project materials, by cost, contain recycled content (post + 1/2 pre-consumer)	<b>MR Credit 4: Recycled Content - 1-2 pts.</b> Same requirements as LEED-NC MR Credit 4	
<b>MR Credit 5: Regional Materials - 1-2 pts.</b> <b>1 point</b> - 10% of building materials or products used are extracted, harvested, recovered or manufactured within 500 miles of the project site <b>1 additional point</b> - 20% of building materials or products used are extracted, harvested, recovered or manufactured within 500 miles of the project site	<b>MR Credit 5: Regional Materials - 1-2 pt.</b> <b>1 point</b> - Option 1: 20% minimum of construction and Division 12 (Furniture) materials and products used are manufactured within 500 miles of the project site <b>1 additional point - Or - Option 2:</b> Meet requirements of option 1 and 10% minimum of construction and Division 12 (Furniture) materials used are extracted, harvested, recovered or manufactured within 500 miles of the project site	<b>MR Credit 9: Solid Waste Management - Facility Alterations and Additions - 1 pt</b> Divert 70% of waste by volume generated by facility alteration and additions from disposal to landfills and incineration facilities



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A-Turf, Inc. was established in 2002 as a national synthetic turf athletic fields builder. Located in Western New York, A-Turf is a part of the Ecore corporate group. Collectively, the Ecore group of companies is the largest user of scrap tire rubber in North America. More than 3.5 million tires annually are converted to a variety of rubber products and system components used in applications that range from athletic fields and playgrounds to high-rise construction and automobiles.

A-Turf, Inc. is committed to operating its businesses in a manner that uses resources wisely and protects the quality of the environment and the health and safety of associates, families and community.

The corporate group is actively affiliated with U.S. Green Building Council, American Society of Testing Materials, and Building for Environmental and Economic Sustainability run by the U.S. National Institute of Standards and Technology.

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Manufactured by:



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International Organization for Standardization is a registered trademark of ISO.