



**Moose Sports Surfaces, Ltd.**  
2257 North Wayne Avenue, Suite 2C  
Chicago, Illinois 60614  
773.477.4664  
773.477.8248 *fax*  
[www.mooseports.com](http://www.mooseports.com)

**MOOSE SPORTS SURFACES, LTD.**

**RUBBERROLL**

**LEED® CREDITS**

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## **About Moose Sports Surfaces, Ltd.**

Moose Sports Surfaces, Ltd. (MOOSE) is a supplier and installer of synthetic sports surfaces. We specialize in working with architects and owner/clients to find the indoor or outdoor synthetic sport surface that best meets their needs and requirements.

It is the MOOSE mission to be a consultative partner in the perfect choice of your sports surface. Whatever your wants, needs, requirements, and budget, we exist to simplify the surface process and eliminate the confusion often associated with choosing a sports surface.

With 20+ years of experience in the sports surfacing business, MOOSE offers a wide range of synthetic materials for gymnasiums, field houses, running tracks, synthetic turf fields, playgrounds, weight rooms, in-line hockey, tennis courts, ice arenas, etc.

For all your sports surfacing needs, call the MOOSE!

## LEED® for New Construction **Overview**

The Leadership in Energy and Environmental Design (LEED®) 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 ® Version 2.2 is an updated version of the rating system for New Construction and Major Renovations (LEED-NC). It is designed to guide and distinguish high-performance commercial and institutional projects with a focus on office buildings.

The rating system defines the requirements, by category, to achieve each prerequisite and voluntary point. 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.

Based on these criteria, MOOSE RubberRoll can assist architects and designers obtain up to 7 points toward LEED® certification.

## LEED-NC Credit Areas Impacted by Flooring

Category	Credit Title	Credit Number	Number of Points Attainable
Materials & Resources	Construction Waste Management	MR 2.1	1
	Construction Waste Management	MR 2.2	1
	Recycled Content	MR 4.1	1
	Recycled Content	MR 4.2	1
	Local/Regional Materials	MR 5.1	1
	Local/Regional Materials	MR 5.2	1
Indoor Environmental Quality	Low-Emitting Materials	EQ 4.1	1
Design Innovation		ID 1.1	1

## LEED-NC: Materials and Resources Construction Waste Management

### Definition of LEED-NC Credits MR 2.1 & 2.2

#### MR 2.1 (1 point)

Recycle and/or salvage at least 50% of the 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.

#### Potential Strategies

Establish goals of diversion from disposal in landfills and incinerators and adopt a construction waste management plan to achieve these goals. Consider recycling cardboard, metal, brick, rubber, acoustical tile, 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.

#### Moose Sports Surfaces Product Contribution – Moose RubberRoll

We have a reclamation program; all overages can be packaged and shipped back at the owner's expense, call 815-338-4664 to coordinate. Moose RubberRoll must be free of adhesive & construction debris, including dirt, concrete or asphalt. Moose RubberRoll adhesive buckets must be intact to prevent leakage and the seal unbroken.

## LEED-NC: Materials and Resources Recycled Content

### Definition of LEED-NC Credits MR 4.1 & 4.2

#### MR 4.1 (1 point)

Use materials with recycled content such that the sum of the 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 the 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. Recycled content materials shall be defined in accordance with the Federal Trade Commission.

#### 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.

#### 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.

#### Moose Sports Surfaces Product Contribution – Moose RubberRoll

The following chart indicates by the percentage of the post-consumer and pre-consumer material.

## MOOSE RUBBERROLL RECYCLED CONTENT

	Product #	Total % Recycled	Pre-Consumer	Post-Consumer
Zone 1	EL00	91%	2%	89%
	EL01	84%	4%	80%
	EL02	84%	4%	80%
	EL04	84%	4%	80%
	EL05	84%	4%	80%
	EL06	84%	4%	80%
	EL07	84%	4%	80%
	EL09	84%	4%	80%
	EL21	84%	4%	80%
	EL23	84%	4%	80%
	EL28	84%	4%	80%
	EL30	84%	4%	80%
	EL32	84%	4%	80%
	Zone 2	EL34	77%	6%
EL36		77%	6%	71%
EL45		77%	6%	71%
EL46		77%	6%	71%
EL47		77%	6%	71%
EL54		77%	6%	71%
EL65		77%	6%	71%
EL69		77%	6%	71%
EL70		77%	6%	71%
EL80		77%	6%	71%
EL82		77%	6%	71%
EL87	77%	6%	71%	
Zone 3	EL56	91%	26%	65%
	EL24	70%	8%	62%
	EL37	70%	8%	62%
	EL38	70%	8%	62%
	EL39	70%	8%	62%
	EL40	70%	8%	62%
	EL53	67%	8%	59%
	EL63	67%	8%	59%
	EL66	67%	8%	59%
	EL81	67%	8%	59%
	EL84	67%	8%	59%
	EL90	67%	8%	59%
	EL55	64%	9%	55%
	EL64	64%	9%	55%
	EL68	64%	9%	55%
	EL83	64%	9%	55%
	EL88	64%	9%	55%
EL92	64%	9%	55%	

	Product #	Total % Recycled	Pre-Consumer	Post-Consumer
Zone 4	EL51	50%	12%	38%
	EL52	50%	12%	38%
	EL67	50%	12%	38%
	EL86	50%	12%	38%
	EL89	50%	12%	38%
	EL43	23%	19%	4%
Zone 5	EL50	20%	20%	0%
	EL60	20%	20%	0%
	EL61	20%	20%	0%
	EL62	20%	20%	0%
	EL85	20%	20%	0%
	EL91	20%	20%	0%



## LEED-NC: Materials and Resources Local/Regional Materials

### Definition of LEED-NC Credits MR 5.1 & 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.

#### **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.

### **Moose Sports Surfaces Product Contribution – Moose RubberRoll**

The Moose RubberRoll is manufactured in Lancaster, PA. There are several internet mapping features which will help you determine if your project is within 500 miles. Contact Moose Sports Surfaces @ 815-338-4664 for specific details.

## LEED-NC: Indoor Environmental Quality Low-Emitting Materials

### Definition of LEED-NC Credits EQ 4.1

#### EQ 4.1 (1 point)

Adhesives and sealants must be lower than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule # 1168.

#### Potential Strategies

Specify low-VOC materials in construction documents. Ensure that VOC limits are clearly stated in each section where adhesives and sealants are used.

#### Moose Sports Surfaces Product Contribution – Moose RubberRoll

Our adhesive is VOC free, compared to the SCAQMD #1168 maximum VOC content of .60 lbs/gal.

## LEED-NC: Innovation & Design Process **Innovation in Design**

### **Definition of LEED-NC Credits ID 1.1 - 1.14**

#### **ID 1.1 (1 point)**

To provide design teams and projects the opportunity to be awarded points for exceptional performance above the requirements set by the LEED for Schools Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED for Schools Green Building Rating System.

#### **ID 1.2 – 1.4 (1 point in addition to ID 1.1)**

Same as above but for other specific instances.

#### **Potential Strategies**

Identify building designs that further provide green benefits in the installation, maintenance, and future modifications to selected building materials.

#### **Moose Sports Surfaces Product Contribution – Moose RubberRoll**

Moose RubberRoll does not qualify for ID 1.1-1.4.

## LEED-CI & LEED EB: Two New Rating Systems Key Differences Between LEED-NC, LEED-CI & LEED-EB

In November 2004, the USGBC released two additional rating systems (LEED-CI and LEED-EB) to accompany LEED-NC. All three programs are part of a comprehensive suite of LEED® green building rating tools the USGBC has developed to promote green design, construction and operations practices in buildings nationwide.

LEED® for Commercial Interiors (LEED-CI) addresses the specifics of tenant spaces in office, retail, and institutional buildings.

LEED® for Existing Buildings (LEED-EB) addresses the sustainable operation of existing buildings, and covers building operations and system upgrades in existing buildings where the majority of interior or exterior surfaces remain unchanged.

Refer to [www.usgbc.org](http://www.usgbc.org) for complete LEED® credit information.

The following table summarizes the differences between the three programs.

LEED-NC	LEED-CI	LEED-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 &amp; Resources</b>		
<b>MR 2:</b> 1 point if 50% of construction debris is diverted from landfills; 2 points for 75%	<b>MR 2:</b> Same as LEED-NC	<b>MRC2</b> offers points for green purchasing, including building materials, at a rate of 1 point for each 10% of confirming purchases. Points may be earned by specifying Moose RubberRoll through the following criteria:  Materials contain at least 10% post-consumer or 20% pre-consumer material.
<b>MR 4:</b> 1 point if 10% of all materials contain recycled content; 2 points for 20%	<b>MR 4:</b> Same as LEED-NC	
<b>MR 5:</b> 1 point for using 10% of the materials that are extracted, harvested, or recovered, as well as manufactured within 500 miles of the project site; 2 points for 20%	<b>MR 5.1:</b> 1 point for using 10% of building materials that are manufactured within a 500 miles radius. <b>MR 5.2:</b> 1 additional point for using 20% of locally manufactured materials that are extracted or harvested within a 500 mile radius	
<b>Indoor Environmental Quality</b>		
<b>EQ 4.1:</b> 1 point for using adhesives and sealants that meet SCAQMD	<b>EQ 4.1:</b> Same as LEED-NC: 1 point for using adhesives and sealants that meet SCAQMD and aerosol adhesives that meet Green Seal Standard GS-36	<b>MRC3</b> provides up to 2 points for using low-emitting materials. One point may be obtained for each 45% of annual purchases calculated on a dollar value that conform to the same categories as NC (including adhesives with VOC content less than SCAQMD).