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How ECOsurfaces Flooring
Systems Can Contribute To
Obtaining LEED® Credits



Revised on 3/1/2012
Supersedes all previous
versions. Check website for
updates.



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What is LEED?

Overview

Recycled rubber flooring, a relatively specialized but growing category within the flooring industry, continues to increase in popularity as a practical solution for a number of environments. The vast color selection, design flexibility, quick installation time and durability make it a perfect flooring choice for many applications.

The popularity of recycled rubber flooring is also on the rise because of its positive environmental attributes. Benefits, such as high-recycled content, low-VOC emissions and low life-cycle costs, make it an environmentally preferable flooring solution for a number of applications. These benefits also enable it to potentially contribute to a number of points under the LEED rating system. We at ECOsurfaces Commercial Flooring designed this educational guide to assist specifiers in understanding how our products apply to the LEED rating system. It is our belief that research and education are the key tools in determining the best product choices for your LEED project.

What is LEED?

The United States Green Building Council (USGBC) created the Leadership in Energy and Environmental Design (LEED) Green Building system in an effort to provide a national standard for what constitutes a “green building.” Architects, designers, retail executives and facility managers, seeking to develop high-performance, sustainable buildings utilize it as a design guideline.

learning spaces. LEED for Schools was developed with children in grades K-12 in mind, but it may be used for other age levels as well.

Table 1 below lists the relevance of the different kinds of learning spaces when determining the appropriateness of LEED for Schools for a building.

There are currently several versions of LEED available:

LEED for Existing Buildings: Operations & Maintenance (LEED-EB)

This rating system is appropriate for existing whole buildings. Typically, these buildings undergo only improvement work.

New Construction and Major Renovations Rating Systems (LEED-NC)

In terms of construction scope, these rating systems are appropriate for whole buildings that are undergoing new construction and/or major renovation.

- **LEED for New Construction and Major Renovations**

Appropriate for all buildings with functions that are not addressed by another rating system in this category.

- **LEED for Schools New Construction and Major Renovations**

This rating system is appropriate for buildings that provide both core learning spaces and ancillary

- **LEED for Healthcare**

This rating system is appropriate for buildings that serve individuals who seek medical treatment, including licensed and federal inpatient care facilities, licensed and federal outpatient care facilities, and licensed and federal long term care facilities. These are considered LEED for Healthcare ‘designated’ uses. Buildings with other kinds of medically-related uses, such as unlicensed outpatient facilities, medical, dental, veterinary offices, clinics, assisted living facilities, medical education, and research centers are examples of ‘non-designated’ uses, and may use LEED for Healthcare at the project team’s discretion.

- **LEED for Retail - New Construction and Major Renovation**

This rating system is appropriate for buildings dedicated to the sale of goods or commodities directly to consumers who come onto the premise for the purpose of obtaining those goods or commodities. Includes (but is not limited to) banks, restaurants (quick and full-serve), stores of any kind, spas, etc. Includes both direct customer service areas (showroom) and preparation or storage areas that support the customer service.

TABLE 1

LEED for Schools Applications by percentile of building square footage dedicated to learning space			
	Over 60% core and ancillary including 25%+ core	Between 40-60% core and ancillary, including 10%+ core	Between 40% or less core and ancillary OR less than 10% core
K-12	Should use LEED for Schools	May use LEED for Schools	Should not use LEED for Schools
Other than K-12	May use LEED for Schools	May use LEED for Schools	Should not use LEED for Schools

How ECOsurfaces Can Apply to LEED

The Benefits of LEED

Why is obtaining LEED certification beneficial? In addition to the obvious environmental benefits, certification proves the market that your building is efficient and incorporates responsible building practices. LEED certification showcases your environmental commitment and leadership to both your community and your employees. As a result, you can potentially generate a tremendous amount of positive publicity and exposure for your company.

Green buildings have also been proven to be more economically efficient as a result of the following factors:

- Increased health and safety benefits of employees or students
- Increased employee productivity, and lower turnover and absenteeism
- Reduced operating costs
- Increased sales in retail establishments
- Increase building evaluation and return on investment

LEED Credit areas Impacted by Flooring – NC 2.2 and CI 2.0

*Note: The following chart is from LEED NC 2.2 and CI 2.0. 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
Indoor Environmental Quality	Low-Emitting Materials - Adhesive	EQ 4.1	1

LEED Credit areas Impacted by Flooring – Existing Buildings 2.0

*Note: The following chart is from LEED EB 2.0. This will be updated accordingly for LEED 2012.

Category	Credit Title	Credit Number	Points Attainable
Materials & Resources	Construction, Demolition and Renovation Waste Management – 50-75%	MR 2.1-2.2	1-2
	Optimized Use of Alternative Materials - 10-50%	MR 2.1-2.5	5
	Optimized Use of IAQ Compliant Products – 45-90%	MR 3.1-3.2	1-2
	Sustainable Cleaning Products and Materials - 30-90%	MR 4.1-4.3	1-3

LEED Credit areas Impacted by Flooring – Schools 2009

*Note: The following chart is from LEED Schools 2009. This will be updated accordingly for LEED 2012.

Category	Credit Title	Credit Number	Points
Materials & Resources	Construction Waste Management – 50-75%	MR 2	1-2
	Recycled Content	MR 4	1-2
Indoor Environmental Quality	Low-Emitting Materials – Adhesive and Sealants	IEQ 4.1	1
	Low-Emitting Materials – Flooring Systems	IEQ 4.3	1

How ECOsurfaces can apply to LEED

Many interior products have the potential to contribute points to LEED, but since credits are based on the performance of all the products involved in a particular project, there is not one stand-alone product that can guarantee you will obtain LEED credits. It is the combination and the weight of each that is critical.

ECOsurfaces Commercial Flooring is designed to meet stringent criteria required to help earn points under 2 of the 6 categories of LEED. Based on these criteria, ECOsurfaces products can assist specifiers by potentially contributing toward earning up to 7 LEED points in new construction and commercial interiors, and 12 LEED points in existing buildings.

NC

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

CI

LEED for Commercial Interiors is a benchmark for the tenant improvement market that gives the power to make sustainable choices to tenants and designers.

EB

LEED for Existing Buildings: Operations & Maintenance provides a benchmark for building owners and operators to measure operations, improvements, and maintenance.

Schools

LEED for Schools recognizes the unique nature of the design and construction of K-12 schools. Based on the LEED for New Construction rating system, it addresses issues such as classroom acoustics, master planning, mold prevention, and environmental site assessment

LEED-NC: Materials and Resources

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

Definition of LEED-EB Credits

MR 1.1 & MR1.2:

MR 1.1 ... (1 point)

- Divert at least 50% of construction, demolition, and land-clearing waste from landfill and incineration disposal.

MR 1.2 ... (1 point in addition to MR 2.1)

- Divert at least 75% of construction, demolition, and land-clearing waste from landfill and incineration disposal.

How ECOSurfaces can contribute:

ECOSurfaces products can contribute in two ways:

- All ECOSurfaces selvages and overages can be packaged and shipped back at the owner's expense to ECORE's Redeux Reclamation Program in Lancaster, PA.
- All old ECOSurfaces materials 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, dowel rods, 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 or visit our website at 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.

Definition of LEED-EB Credits

MR 2.1 - MR 2.5:

Maintain a sustainable purchasing program covering at least office paper, office equipment, furniture, furnishings, and building materials for use in the building and on the site. A template calculator will be provided for LEED for Existing Buildings MR Credit 2.1–2.5. One point (up to a maximum of five) will be awarded for each 10% of total purchases over the performance period (on a dollar basis) that achieves at least one of the following sustainability criteria:

- Contains at least 70% salvaged material from off site or outside the organization.
- Contains at least 70% salvaged from on site through an internal organization materials & equipment reuse program.

- Contains at least 10% post-consumer or 20% post-industrial material.
- Contains at least 50% rapidly renewable materials.
- Is Forest Stewardship Council (FSC) certified wood.
- Contains at least 50% materials harvested and processed or extracted and processed within 500 miles of the project.

Note: In calculating the percentage of purchases over the performance period conforming to the requirements, each purchase can only receive credit against a single requirement (i.e., a purchase that contains both 10% post-consumer recycled content and is harvested within 500 miles of the project counts only once in this calculation).

How ECOsurfaces can contribute:

ECOsurfaces Commercial Flooring is comprised of shredded and cleaned recycled tire rubber and colorful EPDM flecks. The result is a polymerically bound floor with very high-recycled content.

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.

ECOsurfaces Recycled Content

	Item No.	Total Percent Recycled	Pre Consumer	Post Consumer		Item No.	Total Percent Recycled	Percent Recycled Material		
								Pre-Consumer	Post-Consumer	
ECOnightts	601, 602, 620, 632, 635	77.3%	3.7%	73.6%	ECUnderlayments™	ECOcomfort	92.5%	0.0%	92.5%	
	610A	62.6%	7.4%	55.2%		ECOmax®	ECOsilence™	93.8%	0.0%	93.8%
	617	69.9%	5.5%	64.4%	2 ½ inch					
	626	92.0%	0.0%	92.0%			806, 807, 810, 811, 812, 814, 1005, 1013	84.7%	2.0%	82.7%
	646	73.6%	4.6%	69.0%	601, 602, 620		89.3%	0.3%	89.0%	
	629, 648, 650	73.6%	4.6%	69.0%	807, 810, 811, 812, 814, 1005, 1013		86.4%	1.2%	85.2%	
	701, 703A, 710, 713, 714, 715, 716, 717, 718, 722	22.1%	17.5%	4.6%	806	86.6%	1.1%	85.5%		
ECOstone	801, 807, 808, 810, 811, 812, 814	22.1%	17.5%	4.6%	ECOmax®	2 ½ inch	1 inch			
	806	25.8%	16.6%	9.2%						
	816	25.8%	16.6%	9.2%						
ECORock	902, 903, 905, 907	22.1%	17.5%	4.6%						
	910	36.8%	13.8%	23.0%						
	909, 911	47.8%	11.0%	36.8%						
ECOsand	1001	22.1	17.5%	4.6%						
	1002, 1004, 1005, 1009	22.1%	17.5%	4.6%						
ECOstudio	1013, 1014, 1016, 1019, 1020	22.1%	17.5%	4.6%						
	1201, 1202, 1203, 1204, 1205, 1209, 1210, 1211, 1213, 1214, 1215, 1217, 1218, 1219, 1220	22.1%	17.5%	4.6%						
	1221	25.8%	16.6%	9.2%						
	1206, 1207	40.5%	12.9%	27.6%						
	1216	44.2%	12.0%	32.2%						
	1208	47.8%	11.0%	36.8%						
	1212	55.2%	9.2%	46.0%						

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)

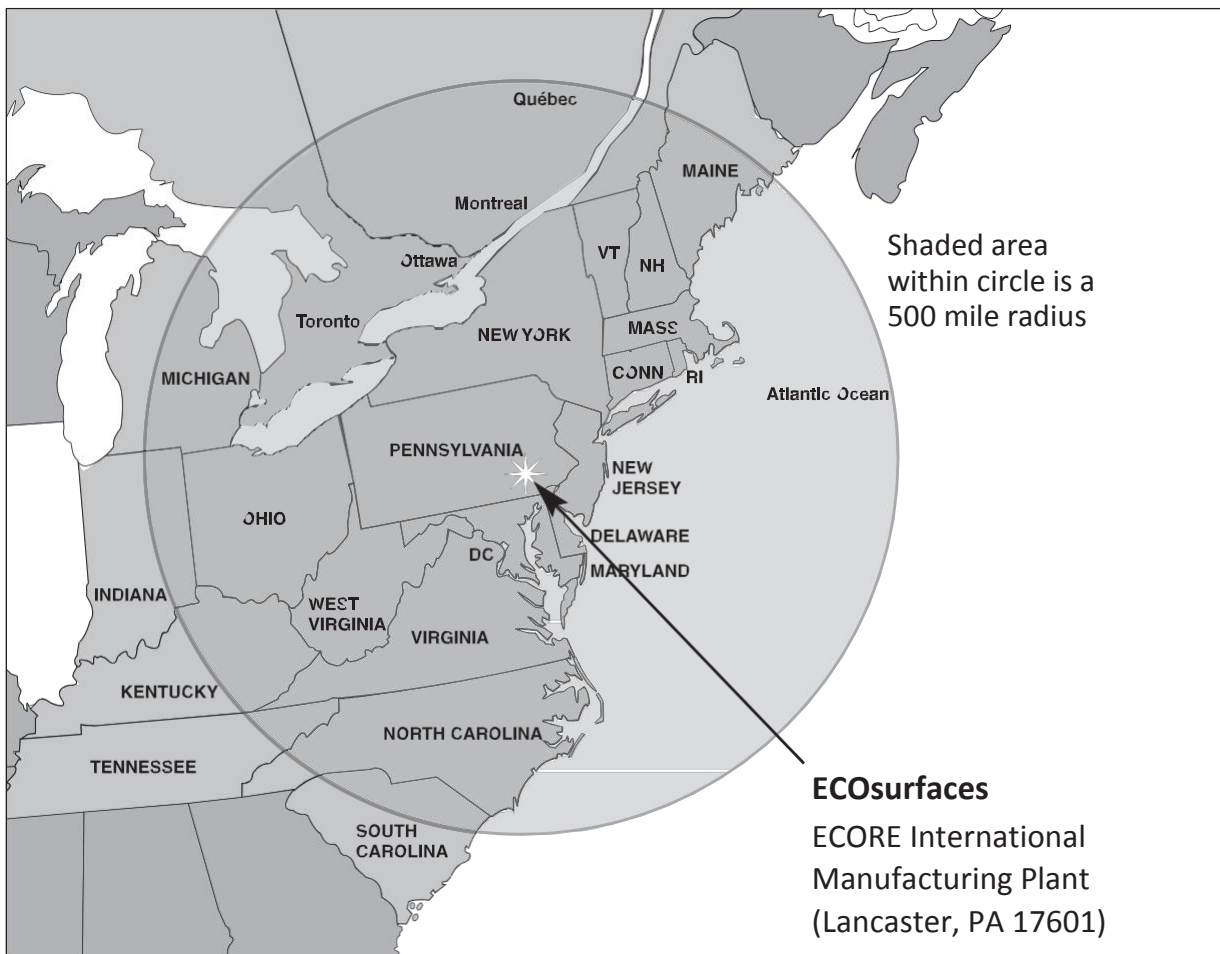
- Same as above but with a minimum of 20% of the total material value.

How ECOsurfaces can contribute:

Recycled rubber is harvested and extracted within 500 miles of our Lancaster, PA facility. The final ECOsurfaces Commercial Flooring and flooring systems are manufactured in our Lancaster, PA facility. All product components, including both recycled rubber and EPDM rubber are manufactured on-site 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.



LEED-NC: Indoor Environmental Quality

Low-Emitting Materials: Adhesives & Sealants

Definition of LEED-NC Credit 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.

Definition of LEED-EB Credits

EQ 3.1 - EQ 3.2:

Optimize use of air quality compliant materials inside the building to reduce the emissions from materials used in the building. Points are awarded for the existence of product purchasing policies for the building and site addressing the requirements of this credit and documentation of purchasing during the performance period in conformance with those policies, as described below. Subsequent re-certification is tied to both polices and purchasing performance, as described below. At a minimum, these policies must include the following product groups: paint and coatings, adhesives, sealants, carpet, composite panels, and agrifiber products. The building materials covered include any building materials covered by a.-e. listed below that are used for improvements, including upgrades, retrofits, renovations, or modifications, inside the building.

One point shall be awarded, up to a maximum of 2 points, for each 45% of annual purchases calculated on a cost basis that conform to one of the following sustainability criteria:

a. Adhesives and sealants with a VOC content less than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule #1168, or sealants used as fillers that meet or exceed the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 51.

OR

b. Paints and coatings with VOC emissions that do not exceed the VOC and chemical component limits of Green Seal's Standard GS-11 requirements.

OR

c. Carpet that meets the requirements of the CRI Green Label Plus Carpet Testing Program.

OR

d. Carpet cushion that meets the requirements of the CRI Green Label Testing Program.

OR

e. Composite panels and agrifiber products that contain no added urea-formaldehyde resins.

LEED-NC: Indoor Environmental Quality

Low-Emitting Materials: Adhesives & Sealants

How ECOSurfaces can contribute:

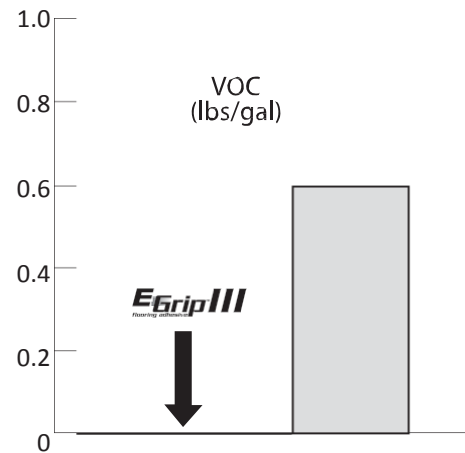
E-Grip III, a revolutionary zero-VOC adhesive (SCAQMD) Rule #1168. The new low odor, one-component urethane adhesive is formulated for use with indoor and outdoor applications. Easy to trowel and apply, its moisture-cured, no-mix formula provides excellent adhesion to elastomers, concrete, and wood. The product is solvent free, anti-microbial, and has a 12 month shelf life.

The zero-VOC content of E-Grip III is far less than that which is required by the California South Coast Air Quality Management District (SCAQMD) Rule #1168 for adhesive flooring and sealant applications, the most demanding standard in the U.S.

E-Grip III flooring adhesive also meets the Collaborative for High Performance Schools (CHPS) criteria (Section 01350) for indoor air quality in classrooms as described in the State of California's Department of Health Services Standard Practice. The emission test followed the California Department of Health Services "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers," commonly referred to as the CA Section 01350 protocol.

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. Review product cut sheets, MSD sheets, signed attestations, or other official literature from the manufacturer clearly identifying the VOC contents or compliance with referenced standards.



E-Grip III: Recycled Rubber Flooring Adhesive

Adhesive Type:	Single component polyurethane	Application Temp:	40°F to 100°F
Color:	Gray	Flashpoint:	> 500°F
Antimicrobial:	Yes	Shelf Life:	12 Months
Adhesive Cure System:	Moisture-cured	Working Time:	30-40 mins
VOC Content:	0 (calculated) lbs/gal	Trowel:	1/16" x 1/32" x 5/64" U-notch
Solvents:	0 (calculated) lbs/gal	Coverage:	1/16" x 1/16" x 1/16" square notch
Freeze/Thaw Stability	Stable		1/8" x 1/8" x 1/8" square notch
Moisture Vapor Emission of Concrete Floor:	Maximum 5.5 lbs per		120 sq ft/gal - 1/16" x 1/32" x 5/64"
	ASTM F1869		95 sq ft/gal - 1/16" x 1/16" x 1/16"
	Max 75% RH per		60 sq ft/gal - 1/8" x 1/8" x 1/8"
	ASTM F-2170		

LEED-NC: Indoor Environmental Air Quality

Low-Emitting Materials: Flooring Systems

Definition of LEED-NC Credit

EQ 4.3:

EQ 4.3

- All flooring must comply with the following as applicable to the project scope.

All hard surface flooring must be certified as compliant with the FloorScore standard by an independent third-party. Flooring products covered by FloorScore include vinyl, linoleum, laminate flooring, wood flooring, ceramic flooring, rubber flooring, wall base, and associated sundries.

OR

All flooring products will meet the testing and product requirements of the California Department of Public Health Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small- Scale Environmental Chambers, including 2004 Addenda.

Potential Strategies:

Clearly specify requirements for product testing and/or certification in the construction documents. Select products that are FloorScore certified or for which testing has been done by qualified independent laboratories in accordance with the appropriate requirements.

How ECOSurfaces can contribute:

ECOSurfaces commercial flooring has earned FloorScore certification. The FloorScore program was developed by the Resilient Floor Covering Institute (RFCI) in conjunction with Scientific Certification Systems (SCS), which tests and certifies flooring, as well as flooring adhesive products and certifies production facilities for compliance with rigorous indoor air quality emission requirements. Individual volatile organic compounds (VOCs) are evaluated using health-based specifications.



ECOSurfaces also meets the Collaborative for High Performance Schools (CHPS) criteria (Section 01350) for indoor air quality in classrooms as described in the State of California's Department of Health Services Standard Practice. The emission test followed the California Department of Health Services "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers", commonly referred to as the CA Section 01350 protocol.

ECOSurfaces is FloorScore Certified

ECOSurfaces commercial flooring has earned FloorScore certification. The FloorScore program was developed by the Resilient Floor Covering Institute (RFCI) in conjunction with Scientific Certification Systems (SCS), which tests and certifies flooring as well as flooring adhesive products, and certifies production facilities for compliance with rigorous indoor air quality emission requirements. Individual volatile organic compounds (VOCs) are evaluated using health-based specifications. Flooring and adhesives that earn FloorScore certification qualify for use in high performance schools and office buildings. Products bearing the FloorScore label meet the indoor air emissions criteria and meet the Collaborative for High Performance Schools (CHPS) criteria (Section 01350) for indoor air quality in classrooms as described in the State of California's Department of Health Services Standard Practice.

LEED-EB: Materials and Resources

Purchase of Sustainable Cleaning Products and Materials

Definition of LEED-EB Credit

MR 4.1-4.3:

MR 4.1 ... (1 point)

Implement sustainable purchasing for cleaning materials and products, disposable janitorial paper products and trash bags. Cleaning product and material purchases include building purchases for use by in house staff or used by outsourced service providers. Calculate the percentage of the total sustainable material and product purchases that meet at least one of the specified sustainability criteria. The percentage of the total sustainable cleaning product and material purchases determine the number of points earned up to a total of 3 points. One point will be awarded for each 30% of the total annual purchases of these products (on a cost basis) that meet one of the following sustainability criteria:

- Cleaning products that meet the Green Seal GS-37 standard if applicable,

OR

If GS-37 is not applicable (e.g., for products such as carpet cleaners, floor finishes or strippers), use products that comply with the California Code of Regulations maximum allowable VOC levels.

- Disposable janitorial paper products and trash bags that meet the minimum requirements of U.S. EPA's Comprehensive Procurement Guidelines.

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

- Purchase sustainable cleaning materials and products an additional 30% beyond MR 4.1 (60% total)

MR 4.3 ... (1 point in addition to MR 4.2)

- Purchase sustainable cleaning materials and products an additional 30% beyond MR 4.2 (90% total)



How ECOSurfaces can contribute:

ECOSurfaces recommends ECORE's Green Solutions line of cleaners, finishers, and strippers for use on all products.

- E-Cleaner, a low foam floor cleaner, meets the Green Seal GS-37 standard.
- E-strip, floor stripper, complies with the California Code of Regulations maximum allowable VOC levels.
- E-Finish, floor finish, complies with the California Code of Regulations maximum allowable VOC levels.

Potential Strategies:

When purchasing materials or supplies, specify that they must meet one or more of the specified sustainability criteria.

For physical data properties of ECORE's Green Solutions line of cleaners, finishers, and strippers, please visit:
www.ecosurfaces.com/literature.php

The Key Differences and Similarities of LEED Rating Systems

LEED 2009 is the most recent 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. All charts and documentation in this LEED guide will be updated when LEED 2012 becomes available from the USGBC.

LEED - New Construction 2009 (NC)	LEED - Commercial Interiors 2009 (CI)	LEED - Existing Buildings 2009 (EB)
General		
Applies to whole buildings	Applies to tenant improvements of new or existing office space	Applies to facility management policies and measured performance
Materials and Resources		
MR Credit 2: Construction Waste Management - 1-2 pts. 1 point - 50% of construction debris diverted from landfills 1 additional point - 75% of construction debris diverted from	MR Credit 2: Construction Waste Management - 1-2 pts. Same requirements as LEED-NC Credit MR 2	MR Credit 3: Sustainable Purchasing - Facility Alterations and Additions - 1 pt 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
MR Credit 4: Recycled Content - 1-2 pts. 1 point - 10% of total project materials, by cost, contain recycled content (post + 1/2 pre-consumer) 1 additional point - 20% of total project materials, by cost, contain recycled content (post + 1/2 pre-consumer)	MR Credit 4: Recycled Content - 1-2 pts. Same requirements as LEED-NC MR Credit 4	
MR Credit 5: Regional Materials - 1-2 pts. 1 point - 10% of building materials or products used are extracted, harvested, recovered, or manufactured within 500 miles of the project site 1 additional point - 20% of building materials or products used are extracted, harvested, recovered, or manufactured within 500 miles of the project site	MR Credit 5: Regional Materials - 1-2 pt. 1 point - Option 1: 20% minimum of construction and Division 12 (Furniture) materials and products used are manufactured within 500 miles of the project site 1 additional point - Or - Option 2: 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	MR Credit 9: Solid Waste Management - Facility Alterations and Additions - 1 pt Divert 70% of waste by volume generated by facility alteration and additions from disposal to landfills and incineration facilities
Indoor Environmental Quality		
IEQ 4.1: Low Emitting Materials: Adhesives and Sealants - 1 pt. Adhesives meet VOC limits for South Coast Air Quality Management District (SCAQMD)	EQ 4.1: Low Emitting Materials: Adhesives and Sealants - 1 pt. Same requirements as LEED-NC IEQ Credit 4.1	IEQ Credit 3.3 Green Cleaning - Purchase of Sustainable Cleaning Products and Materials - 1 pt. 30% of total purchases of cleaning materials and products must meet at least one of the sustainable criteria list. Points may be earned through the following criteria: • Green Seal Certification
IEQ 4.3: Low Emitting Materials: Flooring Systems – 1 pt. Option 1: All hard surface flooring must meet the requirements of the FloorScore standard Or - Option 2: All interior flooring elements must meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.	EQ 4.3: Low Emitting Materials: Flooring Systems - 1 pt. Same requirements as LEED-NC IEQ Credit 4.3	



ECOsURFACES Commercial Flooring

ECOsURFACES supports the ASTM e2129-01 Sustainability Assessment and is one of the most environmentally savvy commercial flooring options on the market today.

Composed of post-consumer tire rubber and pre-consumer ColorMill® EPDM, ECOsurfaces is manufactured by a process that uses minimal water, reuses scrap to decrease waste, requires no smokestacks, and avoids heat in the production process. The finished product passes strict tests for indoor air quality and low-VOC emissions, including the Collaborative for High Performance Schools (CHPS) criteria (Section 01350). ECOsurfaces commercial flooring is PVC free and meets the stringent, State of Washington and EPA standards for indoor air quality and is FloorScore certified.

Each year, Americans throw away over 275 million tires. ECORE salvages these tires from landfills and converts them into the raw material for ECOsurfaces. As an active member of the U.S. Green Building Council and other environmentally focused organizations, we have made the green building movement a top priority.

ECORE International

ECORE International, manufacturer of ECOsurfaces was founded in 1989. Located in Lancaster, PA, ECORE is the largest user of scrap tire rubber in North America and annually recycles over 80 million pounds of scrap tire rubber, helping to conserve more than 1 million barrels of oil to make viable solutions for the commercial, consumer and industrial markets.

ECORE is committed to operating its business and facilities in a manner that use resources wisely and protects the quality of the environment and the health and safety of associates, families, and the community. The company is actively affiliated with the U.S. Green Building Council, American Society of Testing materials and Building for Environmental and Economic Sustainability run by the US National Institute of Standards and technology.

For more information on ECOsurfaces Commercial Recycled Flooring,
call **877.326.7873** or visit **www.ecosurfaces.com**

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