

# USGBC LEED<sup>®</sup> NC 2009

## What is LEED<sup>®</sup>?

Leadership in Energy and Environmental Design [LEED] is a consensus-based program developed by the U.S. Green Building Council to define and document a standard that improves environmental and economic performance of commercial buildings using established and/or advanced industry principles, practices, materials and standards. It is a voluntary performance-oriented system where points are earned for satisfying the criteria.

To earn certification, a building project must meet certain prerequisites and performance benchmarks ["credits"] within each category. Although USGBC does not certify, promote, or endorse products of individual companies, products do play a role and can help projects with point achievement.

The choice of Mirage Floors can help contribute to fulfilling the requirements of each credit.

## Mirage, a commitment to Sustainable Building

From the very beginning, Mirage's corporate values and strategies have been geared toward sustainable development, even though the term itself was still largely unknown. Mirage is worried about the planet and its riches, want to contribute to community's economic development, and is more concerned than ever with securing the best possible quality of life for fellow citizens today and tomorrow.

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The **LEED for New Construction** Rating System is designed to guide and distinguish high-performance commercial and institutional projects, including office buildings, high-rise residential buildings, government buildings, recreational facilities, manufacturing plants and laboratories.

USGBC LEED <sup>®</sup> NC 2009 Rating System				
Categories		Prerequisites	Credits	Points
SS	Sustainable Sites	1	3	26
WE	Water Efficiency	0	1	10
EA	Energy & Atmosphere	3	4	35
MR	Materials & Resources	1	7	14
IEQ	Indoor Environmental Quality	2	8	15
ID	Innovation and Design Process	0	2	6
RP	Regional Priority	0	1	4
<b>Total</b>		<b>7</b>	<b>26</b>	<b>110</b>

Mirage Classic Floors Contribution to LEED <sup>®</sup> NC 2009		
Categories		Potential Contribution
SS	Sustainable Sites	0 point
WE	Water Efficiency	0 point
EA	Energy & Atmosphere	0 point
MR	Materials & Resources	<b>3 points</b>
IEQ	Indoor Environmental Quality	<b>1 point</b>
ID	Innovation and Design Process	<b>3 points</b>
RP	Regional Priority	<b>4 points</b>
<b>Total</b>		<b>Up to 11 points</b>

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## Mirage Classic Floors Contribution to LEED<sup>®</sup> Canada-NC 2009

Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Classic Floors Contribution
MR 5	Regional Materials	1-2	Direct	Use building materials or products that have been <b>extracted, harvested or recovered</b> , as well as manufactured, within <b>500 miles</b> of the project site for a minimum of 10% or 20%, <b>based on cost</b> , of the total materials value. <b>If only a fraction</b> of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) must contribute to the regional value. The minimum percentage regional material for each point threshold is <b>10% for 1 point and 20% for 2 points</b> .	<p>Depending on <b>Mirage's</b> providers and the project's location, <b>Mirage Classic Floors</b> could contribute if the wood used satisfies the regional requirements of the credit (particularly for Eastern Canada provinces).</p> <p>Compliance percentage must be validated, as well as transportation mode for a specific project. This percentage will be calculated on the overall weight of the product's components, according to the source of supply of <b>Mirage's</b> chosen suppliers.</p> <p>The harvesting site of the materials needs to be confirmed for each project, according to <b>Mirage's</b> providers.</p> <p><b>Mirage's</b> manufacturers are located in <b>Saint-Georges, Quebec, Canada</b>.</p>
MR 7	Certified Wood	1	Indirect	<p>Use a minimum of 50% (based on cost) of wood-based materials and products that are certified in accordance with the <b>Forest Stewardship Council's</b> (FSC) Principles and Criteria, for wood building components.</p> <p>These components include at a minimum structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes.</p>	<p><b>Mirage Classic Floors</b> made of <b>FSC-certified Maple, Yellow Birch and Red Oak</b> wood species are complying with the requirements and contribute to this credit.</p> <p><b>FSC Certificate No: SW-COC-002199</b></p> <p>Percentage of certified wood in the <b>Mirage Classic Floors</b> is <b>100% for Maple, Yellow Birch and Red Oak</b> species.</p> <p>This result is calculated on the overall weight of the product's wood components vs total weight of FSC-certified wood.</p>

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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Classic Floors Contribution
IEQ 3.2	Construction IAQ Management Plan: Before Occupancy	1	Indirect	<p>Develop an IAQ management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy:</p> <ul style="list-style-type: none"> <li>- Option 1: Flush out</li> <li>- <b>Option 2: Air testing</b></li> </ul>	<p><b>Mirage</b> encourages, through its choice of components for its products, the reduction of uncontrolled emissions outside of the project.</p> <p>According to BOA-FRANC's emission tests, <b>Mirage Classic Floors</b> should contribute to the compliance with the requirements of this credit if <b>Option 2 (Air Testing)</b> is used.</p> <p>Moreover, <b>Mirage Classic</b> does not include any adhesive during manufacturing.</p>
IEQ 4.2	Low-Emitting Materials: Paints and Coatings	Not applicable	Direct	<p>Paints and coatings used on the interior of the building (i.e., inboard side of the weatherproofing system an applied on-site) must comply with the following criteria as applicable to the project scope:</p> <p>Clear wood finishes, floor coatings, stains, primers, sealers and shellacs applied to interior elements must not exceed the VOC content limits established in <b>South Coast Quality Air Management District (SCAQMD) Rule 1113, Architectural Coatings</b>, effective January 1, 2004.</p>	<p>All sealers and clear wood finishes used for <b>Mirage Classic Floors</b> are complying with the VOC content limits of South Coast Air Quality Management District (<b>SCAQMD</b>) <b>Rule No. 1113</b> (275 g/L, July 2007). VOC are between <b>0.2 and 6.1 g/L</b>.</p> <p>Moreover, <b>Mirage</b> is considering the same VOC limits for sealers and finishes even if they are applied at the plant, reducing the emissions inside of project buildings, another good practice of <b>Mirage</b>.</p>

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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Classic Floors Contribution
IEQ 4.3	Low-Emitting Materials: Flooring Systems	0	Direct	<p>All flooring must comply to one or the other following options:</p> <p><b>Option 1:</b> All hard surface flooring must meet the requirements of the <b>FloorScore</b> standard as shown with testing by an independent third party.</p> <p>Concrete, wood, bamboo and cork floor finishes such as sealer, stain and finish must meet the requirements of <b>South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coating</b>, effective January 1, 2004.</p> <p><b>Option 2:</b> All flooring elements installed in the building interior must 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.</p>	<p><b>Mirage Classic Floors</b> do not contribute to this credit because they are not <b>FloorScore</b> certified and have not been tested for tryouts.</p>

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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Classic Floors Contribution
ID 1	Innovation in Design Path 2	1-3	Direct	<p>An exemplary performance point can be awarded to projects:</p> <ul style="list-style-type: none"> <li>- attaining <b>40% of Regional Material</b> for <b>MR 5</b> credit.</li> <li>- attaining <b>95%</b> of FSC certified wood for the <b>MR 7</b> credit.</li> </ul>	<p><b>Mirage Classic Floors</b> can contribute to achieve a <b>40%</b> regional material exemplary performance, depending on <b>Mirage's</b> providers and the projects location.</p> <p>Depending on the project's design, <b>Mirage</b> may contribute to exemplary performance strategies beyond MR 7 credit requirements, being <b>95%</b> of <b>FSC-certified wood</b> in the project.</p>
RP 1	Innovation & Design Process	1-4	Direct/ Indirect	<p>Earn <b>1 to 4 of the 6 Regional Priority</b> credits identified by the <b>USGBC Regional councils and chapters</b> for their importance.</p>	<p>Please refer to the Advantages and Aspects to Consider section of the Regional Priority credit.</p> <p>For a list of applicable credits, please refer to the CaGBC website <a href="http://www.cagbc.org">www.cagbc.org</a>, under the LEED<sup>®</sup> tools section for the LEED<sup>®</sup> NC 2009 and LEED<sup>®</sup> CS 2009 evaluation systems.</p>
<b>Total</b>		<b>11</b>	<p><b>Mirage Classic Floors can contribute to a total of eleven (11) potential points for a LEED<sup>®</sup> NC 2009 project.</b></p>		