



USGBC LEED® NC 2009

What is LEED®?

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® 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
Total		7	26	110

Mirage Engineered Floors Contribution to LEED® NC 2009		
Categories		Potential Contribution
SS	Sustainable Sites	0 points
WE	Water Efficiency	0 points
EA	Energy & Atmosphere	0 points
MR	Materials & Resources	3 points
IEQ	Indoor Environmental Quality	3 points
ID	Innovation and Design Process	3 points
RP	Regional Priority	4 points
Total		Up to 13 points



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Mirage Engineered Floors Contribution to USGBC LEED® NC 2009

Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered Floors Contribution
MR 5	Regional Materials	1-2	Direct	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% or 20%, based on cost , of the total materials value. If only a fraction 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 10% for 1 point and 20% for 2 points .	<p>Depending on Mirage's providers and the project's location, Mirage Engineered Floors 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 Mirage's chosen suppliers.</p> <p>The harvesting site of the materials needs to be confirmed for each project, according to Mirage's providers.</p> <p>Mirage's manufacturers are located in Saint-Georges, Quebec, Canada.</p>



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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered Floors Contribution
MR 7	Certified Wood	1	Direct	<p>Use a minimum of 50% (based on cost) of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's (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>Mirage Engineered Floors can be FSC mix when available and are complying with the requirements of this credit.</p> <p>FSC Certificate No: SW-COC-002199</p> <p>Percentage of certified wood in the Mirage Engineered Floors is 100% FSC mix.</p>
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"> - Option 1: Flush out - Option 2: Air testing 	<p>According to the credit IEQ 3.2 BOA-FRANC should contribute to the requirements of the Option B (Air Testing) because the Mirage Engineered Floors have met the testing and product requirements of the California Department of Public Health CDPH/EHLB/Version 1.1, 2010 (Emission testing method for CA Specification 01350. Certification: 150224-02.</p>



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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered Floors Contribution
IEQ 4.1	Low-Emitting Materials : Adhesives and Sealants	Not applicable	Direct	All Adhesives, Sealants and Sealant Primers must comply with South Coast Air Quality Management District (SCAQMD) Rule No. 1168 Volatile organic compound (VOC) limits Wood flooring adhesives VOC limit, as of January 2005, is 100 g/L.	All adhesives used for Mirage Engineered Floors are complying with the VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule No. 1168 (less than 100 g/L, January 2005). VOC are 0 g/L . However, adhesives for Mirage's products are applied at the plant and not on site. They are therefore excluded from this credit's requirements. Moreover, Mirage is considering the same VOC limits for adhesives even if they are applied at the plant, reducing the emissions inside of project buildings, another good practice of Mirage .
IEQ 4.2	Low-Emitting Materials: Paints and Coatings	Not applicable	Direct	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: Clear wood finishes, floor coatings, stains, primers, and shellacs applied to interior elements must not exceed the VOC content limits established in South Coast Management District (SCAMD) Rule 1113, Architectural Coatings , rules in effect on January 1 2004.	All sealers and clear wood finishes used for Mirage Engineered Floors are complying with the VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule No. 1113 (275 g/L, July 2007). VOC are between 0.2 and 6.1 g/L . However, sealers and finishes for Mirage's products are applied at the plant and not on site. They are therefore excluded from this credit's requirements. Moreover, Mirage 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 Mirage .



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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered Floors Contribution
IEQ 4.3	Low-Emitting Materials: Flooring Systems	1	Direct	<p>All flooring must comply to one or the other following options:</p> <p>Option 1: All hard surface flooring must meet the requirements of the FloorScore 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 South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coating, rules in effect on January 1, 2004.</p> <p>Option 2: 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>Mirage Engineered Floors do not contribute to Option 1 requirements for this credit since they are not FloorScore certified and have not been tested.</p> <p>Mirage Engineered Floors are compliant to Option 2 for this credit in relation to VOC emissions testing in accordance with California Department of Public Health CDPH/EHLB/Version 1.1, 2010 (Emission testing method for CA Specification 01350. Certification: 150224-02.</p>



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Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered Floors Contribution
IEQ 4.4	Low-Emitting Materials: Composite Wood and Laminate Adhesives	1	Direct	<p>Composite wood and agrifiber products used on the interior of the building must contain no added urea-formaldehyde resins.</p> <p>Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain added urea-formaldehyde resins.</p>	<p>Mirage Engineered Floors can contribute to this credit. The plywood used contains only phenol formaldehyde resin.</p> <p>Laminating adhesives also comply to this credit with no urea-formaldehyde resins in Mirage Engineered Floors.</p>
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"> - attaining 40% of Regional Material for MR 5 credit. - attaining 95% of FSC certified wood for the MR 7 credit. 	<p>Mirage Engineered Floors can contribute to achieve a 40% regional material exemplary performance, depending on Mirage's providers and the projects location.</p> <p>Mirage Engineered Floors can be FSC mix when available and are complying with the requirements of this credit.</p> <p>FSC Certificate No: SW-COC-002199</p> <p>Percentage of certified wood in the Mirage Engineered Floors is 100% FSC mix.</p>
RP 1	Regional Priority	1-4	Direct/ Indirect	<p>Earn 1 to 4 of the 6 Regional Priority credits identified by the USGBC Regional councils and chapters 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 www.cagbc.org, under the LEED® tools section for the LEED® NC 2009 and LEED® CS 2009 evaluation systems.</p>
Total		13	<p>Mirage Engineered Floors can contribute to a total of thirteen (13) possible points for a LEED® NC 2009 project.</p>		



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