

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 prequisites 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.









LEED for Commercial Interiors is the green benchmark for the tenant improvement market. It is the recognized system for certifying high-performance green interiors that are healthy, productive places to work; are less costly to operate and maintain; and have a reduced environmental footprint. LEED for Commercial Interiors gives the power to make sustainable choices to tenants and designers, who do not always have control over whole building operations.

USGBC LEED® CI 2009 Rating System								
	Categories	Prerequisites	Credits	Points				
SS	Sustainable Sites	1	3	21				
WE	Water Efficiency	0	1	11				
EA	Energy & Atmosphere	3	4	37				
MR	Materials & Resources	1	7	14				
IEQ	Indoor Environmental Quality	2	8	17				
ID	Innovation and Design Process	0	2	6				
RP	Regional Priority	0	1	4				
	Total	7	26	110				

Mirage Lock Floors Contribution to LEED® CI 2009								
	Categories	Potential Contribution						
SS	Sustainable Sites	0 points						
WE	Water Efficiency	0 points						
EA	Energy & Atmosphere	0 points						
MR	Materials & Resources	5 points						
IEQ	Indoor Environmental Quality	2 points						
ID	Innovation and Design Process	3 points						
RP	Regional Priority	4 points						
	Total	Up to 14 points						









Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Lock Floors Contribution
MBA	Recycled	Recycled 1-2	Direct	Use materials, including furniture and furnishings, with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes at least 10% (1 point) or 20% (2 points), based on cost of the total value of the materials in the project.	Mirage Lock Floors can contribute to this credit, as they contain between 58.5% and 59.6% of preconsumer recycled content (the HDF used contains pre-consumer recycled wood fibres).
	Content			The recycled content value of a material or furnishing is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.	This result has been calculated considering total weight of Mirage's Lock components that contain recycled content.
MR 5	Regional Materials	1-2	Direct	Option 1 (1 point): Use a minimum of 20% of the combined value of construction Division 12 (Furniture) materials and products that are manufactured regionally within a radius of 500 miles. Option 2 (2 points): Meet the requirements for option 1. Use a minimum of 10% of the combined value of construction Division 12 (furniture) materials and products extracted, harvested or recovered, as well as manufactured, within 500 miles of the project.	Depending on Mirage's providers and the project's location, Mirage Lock Floors could contribute if the wood used satisfies the regional requirements of the credit (particularly for Eastern Canada provinces). Compliance percentage must be approved 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. The harvesting site of the materials needs to be confirmed for each project, according to Mirage providers. Mirage's plants are located in Saint-Georges, Quebec.









Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Lock Floors Contribution
MR 7	Certified Wood	1	Direct	When using new wood-based products and materials, use a minimum of 50% that are certified in accordance with Forest Stewardship Council's (FSC) principles and criteria. Division 12 (furniture) material value is included on the determination of the certified wood content.	Mirage Lock Floors can be FSC mix when available and are complying with the requirements of this credit. FSC Certificate No: SW-COC-002199 Percentage of certified wood in the Mirage Lock Floors is 100% FSC mix.
IEQ 3.2	Construction IAQ Management Plan: Before Occupancy	1	Indirect	Develop an IAQ management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy. Option A: Flush-Out Option B: Air Testing	Mirage Lock will be beneficial in meeting the LEED credit IEQ 3.2 air testing requirements as the Oak and Maple products 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: 141106-03 (Oak) and 141106-02 (Maple). However, the finishes and adhesives comply with the VOC limits permitted for each type of product.
					It is the professional's responsibility to consider this fact in a global design perspective for each project.









Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Lock Floors Contribution
IEQ 4.1	Low-Emitting Materials: Adhesives and Sealants	Not applicable	Direct	All adhesives, sealants and sealant primers used on the interior of the building (i.e., inboard side of the weatherproofing system and applied on-site) must comply with South Coast Air Quality Management District (SCAQMD) Rule No. 1168 Volatile Organic Compound (VOC) limits. Wood flooring adhesives VOC limit is100 g/L, since January 2005.	All adhesives used for Mirage Lock 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 between 0 g/L and 3.7 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, sealers and shellacs applied to interior elements must not exceed the VOC content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, effective January 1, 2004.	All sealers and clear wood finishes used for Mirage Lock 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 .









Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Lock Floors Contribution
IEQ 4.3	Low-Emitting Materials: Flooring Systems	1		All flooring must comply to one or the other following options: Option 1: All hard surfaces flooring must meet the requirements of the Floorscore standard (current as of the date of this rating system, or more stringent version) as shown with testing by an	Mirage Lock Floors contribute to the requirements and had succefully satisfied the tests of the California Department of Public Health CDPH/EHLB/Version 1.1, 2010 (Emission testing method for CA Specification 01350. Certification: 141106-03 (Oak) and 141106-02 (Maple).
			Direct	independent third party. Concrete, wood, bamboo, and cork finishes such as sealer, stain and finish must meet the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, effective January 1, 2004.	
				Option 2: All flooring products must meet the testing 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.	
IEQ 4.4	Low-Emitting Materials: Paints and Coatings	0	Direct	Composite wood and agrifibre products used on the interior of the building (i.e., inboard side of the weatherproofing system and applied on-site) must contain no added urea-formaldehyde resins. Laminate adhesives used to fabricate on-site and shop-applied composite wood and agrifibre assemblies must not contain added urea-formaldehyde resins.	Mirage Lock Floors don't comply with the requirements of this credit because the HDF used contains added urea-formaldehyde resin.









Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Lock Floors Contribution
ID 1	Innovation in Design Path 2	1-3	Direct	An exemplary performance point can be awarded to projects: - attaining 30% of recycled content for MR 4 credit. - attaining 40% of regional material for MR 5 credit. - attaining 95% of FSC certified wood for the MR 7 credit.	Mirage Lock Floors can contribute to achieving a 30% recycled content and a 40% regional material exemplary performance, depending on Mirage's providers and the projects location. Mirage Lock Floors can be FSC mix when available and are complying with the requirements of this credit. FSC Certificate No: SW-COC-002199 Percentage of certified wood in the Mirage Lock Floors is 100% FSC mix.
RP 1	Regional Priority	1-4	Direct/ Indirect	Earn 1 to 4 of the 6 Regional Priority credits identified by the USGBC Regional councils and chapters for their importance.	Please refer to the Advantages and Aspects to Consider section of the Regional Priority credit. For a list of applicable credits, please refer on the USGBC website www.usgbc.org .
TOTAL 14		Mirage Lock Floors can contribute to a total of fourteen (14) possible points for a LEED® CI 2009 project.			





