

LEED[®] Canada-CI v 1.0

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.

LEED® Canada-CI v1.0

LEED Canada 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 Canada CI gives the power to make sustainable choices to tenants and designers, who do not always have control over whole building operations. The LEED Canada CI rating system is applicable to tenant improvements of new or existing office space and applies to both tenants' and base building owner's work associated with the commercial interiors improvements project.

LEED® Canada-CI V.1.0 Rating System				
Categories		Prerequisites	Credits	Points
SS	Sustainable Sites	0	3	7
WE	Water Efficiency	0	1	2
EA	Energy & Atmosphere	3	4	12
MR	Materials & Resources	1	7	14
IEQ	Indoor Environmental Quality	2	8	17
ID	Innovation and Design Process	0	2	5
Total		6	25	57

LEED® Canada-CI V.1.0		Mirage Engineered
Categories		Potential Contribution
SS	Sustainable Sites	0 point
WE	Water Efficiency	0 point
EA	Energy & Atmosphere	0 point
MR	Materials & Resources	3 points
IEQ	Indoor Environmental Quality	2 points
ID	Innovation and Design Process	4 points
Total		Up to 9 points

LEED[®] Canada-CI v1.0

Mirage Engineered Floors Contribution to LEED[®] Canada-CI Version 1.0

Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered Floors Contribution
MR 5.1	Regional Materials : 20% Manufactured Regionally	1	Direct	Use a minimum of 20% of the combined value of construction and Division 12 (Furniture) materials and product that are manufactured regionally within a radius of 500 miles (800 km).	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).
MR 5.2	Regional Materials: 10% Extracted and Manufactured Regionally	1	Direct	In addition to the requirements of MR 5.1, use a minimum of 10% of the combined value of construction and Division 12 (Furniture) materials and products extracted or recovered, as well as manufactured, within 500 miles (800 km) of the project.	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. Mirage's plants are located in Saint-Georges, Quebec.

LEED® Canada-CI v1.0

Mirage Engineered Floors Contribution to LEED® Canada-CI Version 1.0

Credits	Sustainable Strategies	Potential Points	Credit Relevance	Credits Requirements	Mirage Engineered 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.	<p>Mirage Engineered Floors made of FSC certified Maple, Yellow Birch, Red Oak, White Oak, American Cherry, American Walnut and Hickory wood species are complying with the requirements and contribute to this credit.</p> <p>FSC Certificate No: SW-COC-002199.</p> <p>Percentage of certified wood in the Mirage Engineered Floors is between 29% and 41% depending on the selected 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> <p>In a LEED® project, Mirage can give the exact percentage of FSC wood in its product</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 A: Flush out procedure - Option B: IAQ Test Procedure 	<p>Mirage 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, Mirage Engineered Floors should contribute to compliance with the requirements of this credit if Option B (Air Testing) is used, because there is no added urea-formaldehyde resin used in this product.</p>

LEED® Canada-CI v1.0

Mirage Engineered Floors Contribution to LEED® Canada-CI Version 1.0

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 that are used in the building interior must comply with South Coast Air Quality Management District (SCAQMD) Rule No. 1168 Volatile Organic Compound (VOC) limits. Wood flooring adhesives VOC limit is 100 g/L, since January 1, 2004.	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 is 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	Interior paints and coating applied on-site must meet the limitations and restrictions concerning chemical components. VOC limits must be less than the current VOC content limits of Green Seal GS-11 or GS-03. For paints and coatings not already covered by Green Seal GS-11 or GS-03, the VOC content of all under-coatings, sealers and clear wood finishes used must be less than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule No.1113 . Clear wood finishes VOC limit is 275 g/L, since 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 .

LEED[®] Canada-CI v 1.0

Mirage Engineered Floors Contribution to LEED[®] Canada-CI Version 1.0

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	Composite wood and agrifiber products, including core materials, must contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied assemblies containing these laminate adhesives must contain no urea-formaldehyde .	Mirage Engineered Floors can contribute to this credit: the plywood used contains a compliant phenol-formaldehyde resin. Moreover, the adhesives used contain no added urea-formaldehyde .
ID 1.1 - 1.4	Innovation & Design Process	4	Direct	An exemplary performance point can be awarded to projects attaining 30% of regional materials for MR 5 credit . It may be possible to reach 95% of FSC-certified wood and to obtain an exemplary performance for the MR 7 credit .	Mirage Engineered Floors can contribute to reach 30% of regional materials, depending on Mirage's suppliers and the location of the projects. Mirage Engineered Floors made of FSC certified Maple, Yellow Birch, Red Oak, White Oak, American Cherry, American Walnut, and Hickory wood species can contribute to achieving a 95% Certified Wood exemplary performance. To be identified according to project's strategies and propositions. Mirage Engineered Floors could participate in different innovation points.
TOTAL		9	Mirage Engineered Floors can contribute to a total of nine (9) possible points for a LEED[®] Canada-CI Version 1.0 project.		