

MILETTE DOORS

ENTREPRISE

The Client First!

Since the creation of our company in 1967, we never stopped innovating, growing and adapting ourselves to the needs and expectations of our customers. They have always been at the heart of our operations.

We are proud of our evolution over the last forty years and we would like to express our gratitude and appreciation to our customers and partners who

Success, an Eloquent Testimony of Customer Satisfaction

Our key success factors come from our superior quality of products, a high-precision manufacturing process, exceptional before and after-sales service and a devoted team of experienced wood craftsmen.

Over the years, Milette Doors has distinguished itself from its competitors through the relationships built with both partners and clients.

The growth of Milette Doors is a direct result of hard work from each and every team member. Our employees are our most precious asset and their dedication, along with their commitment, is a reflection of our company values.



FRENCH BIFOLD DOORS



Our bifold FRENCH BIFOLD DOORS are made to satisfy all tastes and to accommodate all spaces, large or small.

Models:

- Ovolo moulding
- Square moulding
- Aluminium grill
- One Lite tempered

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Vertima's interpretation regarding potential contribution and compliance of the product and/or system to the LEED® credits are based on information given by the clients and their suppliers, who are responsible for its veracity and integrity. Vertima documents, analyses and validates the supporting documentation in compliance with the CAN/CSA ISO 14021 standard. Therefore, Vertima cannot be held responsible for false or misleading information. **VERTIMA INC.** ensures an annual review of the technical data enclosed in this document in collaboration with its clients in order to maintain a high quality standard.

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A positive impact with LEED® Canada-NC 2009

The growing interest for sustainable building design & operations, of which we are part, is embodied in the Leadership in Energy and Environmental Design (LEED®) Green Building Rating Systems in North America.

This document explores the potential contribution for the use of MILETTE DOOR'S products for a LEED® Canada-NC 2009 (New Construction and Major Renovations) project.

The CaGBC LEED® Canada-NC 2009 Rating Systems has 110 points divided in seven categories for certifying the design and construction of commercial or institutional buildings and high-rise residential buildings of all sizes, both public and private.

MILETTE DOOR'S products can assist in earning points towards the various LEED rating system certification levels. In some cases, MILETTE DOOR'S contribute directly to individual LEED points, but in other cases can only help meet the overall intent.



LEED® Canada-NC 2009 Summary Table

FRENCH BIFOLD DOORS

LEED® Canada-NC 2009 Summary Table					FRENCH BIFOLD DOORS
Category		Prerequisite	Credits	Points	Potential Contribution LEED Canada-NC 2009
SS	Sustainable Sites	1	8	26	0 points
WE	Water Efficiency	1	3	10	0 points
EA	Energy and Atmosphere	3	6	35	0 points
MR	Materials and Resources	1	7	14	6 points
IEQ	Indoor Environmental Quality	2	8	15	3 points
ID	Innovation in Design	0	2	6	2 points
RP	Regional Priority	0	2	4	1 point
Total		8	36	110	Up to 12 points

* It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product by itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED® credits.

CREDITS
**DURABLE
STRATEGIES**
**POTENTIAL
POINTS**
**CREDIT
RELEVANCE**
**CONTRIBUTION AND COMPLIANCE*
FRENCH BIFOLD DOORS**
MR 3
Materials Reuse
1 - 2 points
Indirect
COMMENTS
Requirements

Use salvaged, refurbished or reused materials, the sum of which constitutes at least **5%** (1 point) or **10%** (2 points) based on cost of the value of materials on the project.

The **FRENCH BIFOLD DOORS** from **MILETTE DOORS** only contribute to this credit when they are **retrieved and reused** in another project or if used for other purposes in the same project.

When **FRENCH BIFOLD DOORS** are new and installed in the project, they cannot contribute to this credit.

The durability of this product's components as well as **MILETTE DOORS'** continuously maintained quality standards allow the recovery and reuse of the doors, if needed.

MR 4
Recycled Content
1 - 2 points
Direct
COMMENTS
Requirements

Use materials with **recycled content** such that the sum of **post-consumer recycled content** plus 1/2 of the pre-consumer content constitutes at least **10%** (1 point) or **20%** (2 points) based on cost of the total value of the materials in the project.

The **FRENCH BIFOLD DOORS** from **MILETTE DOORS** can contribute to this credit because some of their components have a **pre-consumer** recycled content. However, they do not contain any **post-consumer** recycled content.

The recycled content value of a material assembly is determined by **weight**. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

The **FRENCH BIFOLD DOORS'** recycled pre-consumer contents are shown in the table below:

FRENCH BIFOLD DOORS MODELS		Recycled Content	
		Pre-consumer	Post-consumer
OVOLO MOULDING	305 HP	6.62%	0%
	3100 P	5.10%	0%
	3050 P	5.55%	0%
SQUARE MOULDING	804 HP	6.73%	0%
	805 HP	6.57%	0%
ALUMINIUM GRILL	1100 P	5.80%	0%
ONE LITE TEMPERED	1000 P	5.67%	0%
	6000 P	5.60%	0%

These percentages were calculated based on the components' weight ratio over the whole door and may vary according to the selected suppliers.

MILETTE DOORS can provide specific data for each product with recycled content in a LEED® project.

MILETTE DOORS has all required documents regarding LEED® and can rapidly provide information for a specific project.

MATÉRIELS AND RESOURCES (MR)

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CREDITS **DURABLE STRATEGIES** **POTENTIAL POINTS** **CREDIT RELEVANCE**

CONTRIBUTION AND COMPLIANCE*
FRENCH BIFOLD DOORS

MR 5

Regionals Materials

1 - 2 points

Direct

COMMENTS

Requirements

Use building materials or products that have been **extracted, harvested, recovered** and **processed** within **800 km** (500 miles) (**2,400 km** if shipped by rail or water) of the **final manufacturing site**.

Demonstrate that the **final manufacturing site** is within **800 km** (500 miles) (**2,400 km** if shipped by rail or water) of the **project site for these products**.

If only a fraction of a product or material is **extracted, harvested, recovered, processed** and **manufactured locally**, then only that percentage (by weight) must contribute to the regional value. The minimum percentage of regional materials for each point threshold is **20%** (1 point) or **30%** (2 points).

The **FRENCH BIFOLD DOORS** from **MILETTE DOORS** contain some components that are **extracted, collected, treated and recovered** within a **800 km or 2,400 km** radius (depending on the transportation mean used). The percentages of **compliant materials** are shown in the table below:

% materials extracted, collected, treated and recovered within a 800 km or 2,400 km radius (depending on the transportation mean used).		% Regionals Materials
OVOLO MOULDING	305 HP	57.37%
	3100 P	57.45%
	3050 P	53.66%
SQUARE MOULDING	804 HP	58.77%
	805 HP	56.75%
ALUMINIUM GRILL	1100 P	54.17%
ONE LITE TEMPERED	1000 P	52.97%
	6000 P	52.27%

The percentage calculation was performed by considering the requirements of Credit **MR 5** and the maximum distance radius (which depends on the means of transportation used).

The origin of the main components and the mean of transportation used must be validated for every project.

The **FRENCH BIFOLD DOORS** from **MILETTE DOORS** final manufacturing site is located in Quebec, **St-Boniface de**

COMMENTS

MR 7

Certified Wood

Do not contribute

Direct

Requirements

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. These components include at a minimum structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes.

Include materials permanently installed in the project. Wood products purchased for temporary use in the project (e.g., formwork, bracing, scaffolding, sidewalk protection, and guard rails) may be included in the calculation at the project team's discretion.

Where applicable, all these materials must be included in the calculation. The furniture can also be included if it is included with uniformity in **MR Credit 3**, Materials Reuse, through **MR Credit 7**, Certified Wood.

MILETTE DOORS has all required documents regarding **LEED®** and can rapidly provide information for a specific project.

MILETTE DOORS is not **FSC** Certified.

The **FSC** certification must be clearly specified when required in a **LEED ®** Project, to ensure compliance.

MATÉRIELS AND RESOURCES (MR)



CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE
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**CONTRIBUTION AND COMPLIANCE*
FRENCH BIFOLD DOORS**
IEQ 3.2 Option 2
**Construction IAQ
management plan:
Before occupancy**
1 point
Indirect
COMMENTS
Requirements

Develop an **IAQ** management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy.

Option 2 - Air Testing

Conduct baseline IAQ testing, after construction ends and **prior to occupancy**, using testing protocols consistent with the United States Environmental Protection Agency Compendium of Methods for the Determination of Air Pollutants in Indoor Air and as additionally detailed in the LEED® Canada Reference Guide for Green Building Design and Construction.

The **FRENCH BIFOLD DOORS** from **MILETTE DOORS** are manufactured offsite. **DOORS MILETTE** selects the most environmentally friendly products and components, which indirectly promotes a better **IAQ**.

The use of low-emission products in the manufacturing process of **FRENCH BIFOLD DOORS** from **MILETTE DOORS**, helps achieving the requirements for **IEQ Credit 3.2 Option 2: Air analysis**.

IEQ 4.1
**Low-Emitting Materials:
Adhesives and sealants**
Non-applicable
Direct
COMMENTS
Requirements

All adhesives and sealants used on the interior of the building (i.e., inboard side of the weatherproofing system and applied on-site) must comply with the following requirements as applicable to the project scope:

- Adhesives, Sealants and Sealant Primers: South Coast Air Quality Management District (**SCAQMD**) Rule #1168. Volatile organic compounds (**VOC**) limits are listed in the table below and correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005.

The credit **IEQ 4.1** only applies to adhesives and sealants used on-site and on the interior of the building (inside the vapor barrier).

The adhesives used in the manufacturing of **FRENCH BIFOLD DOORS** from **MILETTE DOORS** are factory-applied and thus don't have to meet the requirements for this credit.

However, **MILETTE DOORS** selects the most environmentally friendly products and components, which indirectly promotes a better **IAQ**.

Factory-applied adhesives and their **VOC** content:

SUPPLIER	TYPE	NAME OF PRODUCT	VOC CONTENT g/L
Adfast Corp.	Acoustic Sealant	Adbond 1455	72.45 g/L
Dural a Division of Multibond Inc.	Adhesive	G-2408	3 g/L
Dural a Division of Multibond Inc.	Adhesive	G-2424	1.6 g/L
Dural a Division of Multibond Inc.	Adhesive	G-2949	1.9 g/L

In a project, **MILETTE DOORS** can provide the technical data for the components having emissions.

MILETTE DOORS has all required documents regarding LEED® and can rapidly provide information for a specific project.

INDOOR ENVIRONMENTAL QUALITY (IEQ)

CREDITS

DURABLE
STRATEGIES

POTENTIAL
POINTS

CREDIT
RELEVANCE

CONTRIBUTION AND COMPLIANCE*
FRENCH BIFOLD DOORS

IEQ 4.2

Low-Emitting Materials:
Paints and Coatings

Non-applicable

Indirect

COMMENTS

Requirements

Paint and coating used on the interior of the building (i.e., inside of the weatherproofing system and applied on site) must comply with the following criteria as applicable to the project scope:

Anti-corrosive an anti-rust paints applied to interior ferrous metal substrates must not exceed the **VOC** content limit of **250 g/L** established in **Green Seal Standard GC-03**, Anti-Corrosive Paints, Second Edition, January 7, 1997.

Clear wood finishes, floor coatings, stains, primers, sealers, and shellacs applied to interior elements must not exceed the **VOC** content limit established in South Coast Air Quality Management District (**SCAQMD**) **Rule 1113**, Architectural Coatings, rules in effect on January 1, 2004.

The credit **IEQ 4.2** only applies to paints and coatings used on-site and on the interior of the building (inside the vapor barrier).

The paints and coatings used in the manufacturing of **FRENCH BIFOLD DOORS** from **MILETTE DOORS** are factory-applied and thus don't have to meet the requirements for this credit.

Special attention should be paid to any on-site application of paints or finish products for touch ups. The products used must also meet this credit's requirements.

IEQ 4.4

Low-Emitting Materials:
Composite Wood and
Agrifiber Products

1 point

Direct

COMMENTS

Requirements

Composite wood and agrifiber products, including core materials, must contain no added urea-formaldehyde resins. Adhesives used to fabricate laminated assemblies containing these products must **contain no urea-formaldehyde**.

Specify wood and agrifiber products that contain no added urea-formaldehyde resins. Specify laminating adhesive for field and shop applied assemblies, including adhesives and veneers that contain no urea-formaldehyde. Provide product cut sheets, MSD sheets, signed attestations or other official literature from the manufacturer clearly identifying the emission limits.

This credit applies to all composite wood products and agricultural fiber products as well as adhesives for laminates. All these products must contain **no added urea-formaldehyde resin, even if manufactured or applied off-site.**

Most of **MILETTE DOORS'** suppliers can offer products containing no added urea formaldehyde.

If specified, **MILETTE DOORS** can ensure to comply to the credit IEQ 4.4 requirements during a LEED® project.

IEQ 8.1

Daylight and Views: Daylight

1 point

Indirect

COMMENTS

Requirements

To provide for the building occupants a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the building. Through 1 of the 4 options achieve daylighting in at least 75% of the regularly occupied spaces.

Option 1. Simulation

Option 2. Prescriptive

Option 3. Measurement

Option 4. Combination

Regularly occupied spaces	Points
75 %	1

The credit **IEQ 8.1** depends on the visible light transmittance (VLT) and on the window-to-floor area ratio (WFR).

The design and selection of glass remain crucial elements for achieving this credit's requirements.

The **FRENCH BIFOLD DOORS** from **MILETTE DOORS** allow in the natural light and can, depending on the selected glass, contribute to an optimization strategy of the natural light levels.

FRENCH BIFOLD DOORS from **MILETTE DOORS** have visible transmittance values which vary between **89% and 90% VLT**.

During a LEED® project, **MILETTE DOORS** is able to rapidly provide all the necessary documentation for this credit.

MILETTE DOORS has all required documents regarding LEED® and can rapidly provide information for a specific project.

INDOOR ENVIRONMENTAL QUALITY (IEQ)

	CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE	CONTRIBUTION AND COMPLIANCE* FRENCH BIFOLD DOORS
INNOVATION IN DESIGN (ID)	ID path 2	Innovation in design	2 points	Direct	COMMENTS
	Requirements Path 2: Exemplary Performance Achieve exemplary performance in an existing LEED 2009 for New Construction and Major Renovations credit that allows exemplary performance as specified in the LEED Reference Guide for Green Building Design & Construction, 2009 Edition . An exemplary performance point may be earned for achieving double the credit requirements and/or achieving the next incremental percentage threshold of an existing credit in LEED. One point is awarded for each exemplary performance achieved. No more than 3 points under ID credit 1 may be earned through PATH 2—Exemplary Performance.				<p>FRENCH BIFOLD DOORS from MILETTE DOORS contain, in their assembly, high percentages of regional materials and certified wood, which could contribute to exemplary performance strategies for the following credits:</p> <p>MR 4 - Innovation and exemplary performance if the project achieves 30% recycled content.</p> <p>MR 5 - Innovation and exemplary performance if the project achieves 40% regional material.</p> <p>FRENCH BIFOLD DOORS from MILETTE DOORS achieve excellent performances in the MR 4 and MR 5 Credits and can thus contribute to exceed these credits' requirements.</p>
RÉGIONAL PRIORITY (RP)	RP 2	Regional Priority	1 point	Direct/Indirect	COMMENTS
	Requirements Up to 3 points for Regional Priority Credit 2 may be proposed for this credit that is intended to allow adding point emphasis to recognize one OR more issues that have additional regional environmental importance. To achieve a Regional Priority credit, the applicant must identify LEED credits which have additional regional environmental importance. A project must achieve the base credit and then propose that credit as a Regional Priority credit.				<p>FRENCH BIFOLD DOORS from MILETTE DOORS may contribute towards achievement of a regional priority credit as the Material & Resources credit 5 regional material credit is considered as a regional priority for the following provinces: Alberta, Saskatchewan, Quebec, New-Brunswick, Nova Scotia and Prince Edward Island.</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 for new construction and major renovations and LEED® CS 2009 for core and shell development Rating Systems.</p>
	<i>MILETTE DOORS has all required documents regarding LEED® and can rapidly provide information for a specific project.</i>				
POINTS	TOTAL	Up to 12 possible points	THE FRENCH BIFOLD DOORS FROM MILETTE DOORS can contribute up to a total of twelve (12) possibles points for LEED® Canada-NC 2009 project		

* It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product by itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED® credits.