

LEED 2009 INFORMATION - CANADA & U.S.

In 2009, the USGBC re-launched its suite of rating systems and harmonized *LEED for New Construction and Major Renovations (NC)* and *LEED for Core and Shell Development (CS)* in a single reference guide. The CaGBC is following suit and re-launching *LEED Canada NC 2009* and *LEED Canada CS 2009*, which have been merged into a single reference guide as well as this easy-to-use rating system.

LEED CANADA NC AND LEED CANADA NE CERTIFICATION

To earn LEED certification, the project must satisfy all the prerequisites and credits to obtain the minimum number of points required to achieve the desired project rating under *LEED Canada for New Construction and Major Renovations* or *LEED Canada for Core and Shell Development*. Projects will need to comply with the version that is current at the time of project registration.

Applications for certification (submittals) should follow the requirements noted on the CaBC website, within this rating system, and within the *LEED Canada Reference Guide for Green Building Design and Construction*, as well as the LEED Canada NC/CS Letter Templates.

Features of LEED

The LEED Green Building Rating Systems are voluntary, consensus-based, and market-driven. Based on existing and proven technology, they evaluate environmental performance from a whole building perspective over a building's life cycle, providing a definitive standard for what constitutes a green building in design, construction, and operation.

The LEED rating systems are designed for rating new and existing commercial, institutional, and residential buildings. They are based on accepted energy and environmental principles and strike a balance between known, established practices and emerging concepts.

The LEED 2009 credit weightings process is based on the following parameters, which maintain consistency and usability across rating systems:

- | All LEED credits are worth a minimum of 1 point.
- | All LEED credits are positive, whole numbers; there are no fractions or negative values.
- | All LEED rating systems have 100 base points; Innovation in Design (or Operations) and Regional Priority credits provide opportunities for up to 10 bonus points.
- | Each credit is allocated points based on the relative importance of the building-related impacts that it addresses.

Given the above criteria, the LEED 2009 credit weightings process involves 3 steps. A complete explanation of the LEED credit weightings system is available on the USGBC website, at www.usgbc.org

LEED 2009 CERTIFICATION

Prerequisites and credits in the *LEED Canada for New Construction and Major Renovations 2009* in the *LEED Canada for Core and Shell Development 2009* address seven topics:

Sustainable Sites (SS)	26 possible points
Water Efficiency (WE)	10 possible points
Energy and Atmosphere (EA)	35 possible points
Materials and Resources (MR)	14 possible points
Indoor Environmental Quality (IEQ)	15 possible points
Innovation in Design (ID)	6 possible points
Regional Priority (RP)	4 possible points
Project total	110 possible points

LEED Canada for New Construction and Major Renovations 2009 and *LEED Canada for Core and Shell Development 2009* certifications are awarded according to the following scale:

40-49 points = Certified **60-79 points = Gold**
50-59 points = Silver **80 points and above = Platinum**

The CaGBC will recognize buildings that achieve one of these ratings with a formal certificate of certification.

*See: *LEED 2009 Checklist - Canada & U.S.* for details on all points.

Please contact us at 1-800-804-5666 for more information on how Baillargeon Doors' products can help you reach your LEED project goals. Ask for our Marketing or Quote Department for details or a quote.

Reference: Canada Green Building Council: *LEED® CANADA FOR NEW CONSTRUCTION AND MAJOR RENOVATIONS 2009, LEED® CANADA FOR CORE AND SHELL DEVELOPMENT 2009, RATING SYSTEM*

LEED 2009 CREDIT OPPORTUNITIES - CANADA & U.S.

LEED 2009 CATEGORY CANADA & U.S.	CREDIT AND DESCRIPTION	REQUIREMENT	HOLLOW CORE	PARTICLE-BOARD CORE STANDARD	AGRIFIBRE CORE	STRUCTURAL COMPOSITE LUMBER LVL	STRUCTURAL COMPOSITE LUMBER LSL	FIRE-RATED MINERAL CORE DOOR	CERTIFIED SOUNDPROOF CORE DOOR	
Materials & Resources (MR)	MR 3 (1-2 PTS) Materials reuse	Use salvaged, refurbished or reused materials such that the sum of these materials constitutes at least 5% (1 point) or 10% (2 points) based on cost, of the total value of materials on the project.	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	
	See available options on our specification sheets.									
	MR 4 (1-2 PTS) Recycled content	Use materials with recycled content such that the sum of post-consumer recycled content plus half 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 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.	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies
	See available options on our specification sheets.									
	MR 5 (1-2 PTS) Regional materials	Use building materials or products that have been extracted, harvested, recovered and processed within 800 km (500 miles) of the final manufacturing site . In addition, in the U.S., a minimum of 10% to 20% must be based on the total value of the material. In Canada only, 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 is 20% in Canada and 10% in the United States (1 point) or 30% in Canada and 20% in the United States (2 points).	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies
See available options on our specification sheets.										
MR 6 (1 PT) Rapidly renewable materials	Use rapidly renewable building materials and products (made from plants that are typically harvested within a 10-year cycle or shorter) for 2.5% of the total value of all building materials and products used in the project, based on cost. Furniture may be included if it is included consistently in MR 3: Materials Reuse through MR 7: Certified Wood.	Does not qualify	Does not qualify	Qualifies	Does not qualify	Does not qualify	Does not qualify	Does not qualify	Does not qualify	
MR 7 (1 PT) Certified wood (FSC)	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 on the project may be included in the calculation at the project team's discretion. If any such materials are included, all such materials must be included in the calculation. Furniture may be included if it is included consistently in MR 3: Materials Reuse through MR 7: Certified Wood (MR Credit 6 in Core and Shell).	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	
See available options on our specification sheets.										



LEED 2009 CREDIT OPPORTUNITIES - CANADA & U.S.

LEED 2009 CATEGORY CANADA & U.S.	CREDIT AND DESCRIPTION	REQUIREMENT	HOLLOW CORE	PARTICLE-BOARD CORE STANDARD	AGRIFIBRE CORE	STRUCTURAL COMPOSITE LUMBER LVL	STRUCTURAL COMPOSITE LUMBER LSL	FIRE-RATED MINERAL CORE DOOR	CERTIFIED SOUNDPROOF CORE DOOR	
Indoor Environmental Quality (IEQ)	IEQ 3.2 OPTION 2 (1 PT) IAQ management plan: Before occupancy	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.	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	
	See available options on our specification sheets.									
	IEQ 4.1 (1 PT) Low-Emitting Materials—Adhesives and Sealants	All adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the requirements of standards.	Non applicable							
	IEQ 4.4 (1 PT) Low-emitting materials: Composite wood and agrifiber products (NAUF)	Composite wood and agrifiber products used on the interior of the building (i.e., inboard side of the weatherproofing system and applied on-site) shall contain no added urea-formaldehyde resins . Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain added urea-formaldehyde resins . Composite wood and agrifiber products are defined as particleboard, medium density fiberboard (MDF), plywood, wheatboard, strawboard, panel substrates and door cores.	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies
	See available options on our specification sheets.									
IEQ 8.1 (1 PT) Daylight	To provide for the building occupants a connection between indoor spaces and the outdoors through the introduction of daylight into the regularly occupied areas of the building. Through 1 of the 4 following options achieve daylighting in at least 75% of the regularly occupied spaces. - Option 1: Simulation - Option 2: Prescriptive - Option 3: Measurement - Option 4: Combination	According to specification and use of glass								
IEQ 8.2 (1 PT) Views	To provide for the building occupants a connection between indoor spaces and the outdoors through the introduction of views into the regularly occupied areas of the building: Achieve direct line of sight to the outdoor environment via vision glazing between 0.76 metres and 2.3 metres (30 inches and 90 inches) above the finished floor for building occupants in 90% of all regularly occupied areas	According to specification and use of glass								



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Innovation & Design Process (ID 1)	ID 1 MODE 2 (1-3 PTS) Design innovation: Exemplary performance	Achieve exemplary performance in an existing credit that allows exemplary performance as specified in the LEED® Canada Reference Guide for Green Building Design and Construction . 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 1 may be earned through Mode 2: Exemplary Performance.	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies
			See available options on our specification sheets.						
Regional Priority (PR 2)	PR 2 (1-3 PTS) Regional priority	Up to 3 points can be proposed for this credit, which 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.	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies	Qualifies
			See available options on our specification sheets.						
Total possible points			17 pts	17 pts	18 pts	17 pts	16 pts	17 pts	17 pts



LEED 2009 PROJECT CHECKLIST - CANADA & U.S.

Client: _____
 Project: _____
 Door type: _____
 Date: _____

A	Unrelated to Baillargeon Doors - achievable
B	Unrelated to Baillargeon Doors - possibly achievable
C	Unrelated to Baillargeon Doors - achievable with difficulty
	Using Baillargeon Doors - achievable

Yes	?	No			
			SUSTAINABLE SITES		26 POINTS
	A		Prereq 1	Erosion & Sedimentation Control	Required
	A		Credit 1	Site Selection	1
	B		Credit 2	Development Density	3 or 5
	C		Credit 3	Redevelopment of Contaminated Sites	1
	A		Credit 4.1	Alternative Transportation, Public Transportation Access	3 or 6
	A		Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1
	A		Credit 4.3	Alternative Transportation, Hybrid or Non-Polluting Vehicles	3
	A		Credit 4.4	Alternative Transportation, Parking Capacity	2
	C		Credit 5.1	Reduced Site Disturbance, Protect or Restore Open Space	1
	B		Credit 5.2	Reduced Site Disturbance, Maximize Development Footprint	1
	B		Credit 6.1	Stormwater Management, Rate and Quantity	1
	B		Credit 6.2	Stormwater Management, Treatment	1
	A		Credit 7.1	Reduced Heat Island Effect, Non-Roof	1
	B		Credit 7.2	Reduced Heat Island Effect, Roof	1
	B		Credit 8	Reduced Light Pollution	1

Yes	?	No			
			EFFICIENT WATER MANAGEMENT		10 POINTS
	A		Prereq 1	Water Use Reduction	Required
	B		Credit 1	Water Efficient Landscaping	2 or 4
	B		Credit 2	Innovative Wastewater Technologies	2
	A		Credit 3	Water Use Reduction	2 - 4

Yes	?	No			
			ENERGY & ATMOSPHERE		35 POINTS
	A		Prereq 1	Fundamental Building Systems Commissioning	Required
	A		Prereq 2	Minimum Energy Performance	Required
	A		Prereq 3	CFC Reduction in HVAC&R Equipment	Required
	B		Credit 1	Optimized Energy Performance	1 - 19
	B		Credit 2	Renewable Energy	1 - 7
	B		Credit 3	Enhanced Commissioning	2
	B		Credit 4	Ozone Protection	2
	B		Credit 5	Measurement & Verification	3
	B		Credit 6	Green Power	2

LEED 2009 PROJECT CHECKLIST - CANADA & U.S.

Yes	?	No			
			MATERIALS & RESOURCES		14 POINTS
	A		Prereq 1	Storage & Collection of Recyclables	Required
	C		Credit 1.1	Building Reuse: Maintain 75% of Existing Walls, Floors, and Roof	1 - 3
	B		Credit 1.2	Building Reuse: Maintain 95% of Existing Walls, Floors, and Roof	1
	A		Credit 2	Construction Waste Management	1 - 2
	<input checked="" type="checkbox"/>		Credit 3	Resource Reuse	1 - 2
	<input checked="" type="checkbox"/>		Credit 4	Recycled Content	1 - 2
	<input checked="" type="checkbox"/>		Credit 5	Regional Materials	1 - 2
	<input checked="" type="checkbox"/>		Credit 6	Rapidly Renewable Materials	1
	<input checked="" type="checkbox"/>		Credit 7	Certified Wood	1
			INDOOR ENVIRONMENTAL QUALITY		15 POINTS
	A		Prereq 1	Minimum IAQ Performance	Required
	A		Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
	A		Credit 1	Carbon Dioxide (CO ₂) Monitoring	1
	B		Credit 2	Ventilation Effectiveness	1
	A		Credit 3.1	Construction IAQ Management Plan: During Construction	1
	<input checked="" type="checkbox"/>		Credit 3.2	Construction IAQ Management Plan: Before Occupancy	1
	A		Credit 4.1	Low-Emitting Materials: Adhesives & Sealants	1
	A		Credit 4.2	Low-Emitting Materials: Paints and Coating	1
	A		Credit 4.3	Low-Emitting Materials: Carpet	1
	<input checked="" type="checkbox"/>		Credit 4.4	Low-Emitting Materials: Composite Wood and Laminate Adhesives (NAUF)	1
	A		Credit 5	Indoor Chemical & Pollutant Source Control	1
	B		Credit 6.1	Controllability of Systems: Perimeter Spaces	1
	B		Credit 6.2	Controllability of Systems: Non-Perimeter Spaces	1
	B		Credit 7.1	Thermal Comfort: Compliance with ASHRAE 55-2004 standard	1
	B		Credit 7.2	Thermal Comfort: Monitoring	1
	B		Credit 8.1	Daylight & Views: Daylight Spaces	1
	B		Credit 8.2	Daylight & Views: Views Spaces	1
			INNOVATION & DESIGN PROCESS		6 POINTS
	<input checked="" type="checkbox"/>		Credit 1	Innovation in Design	1 - 3
	A		Credit 2	LEED® Accredited Professional	1
			REGIONAL PRIORITY		4 POINTS
	B		Credit 1.1	Sustainable Building	1
	<input checked="" type="checkbox"/>		Credit 2	Regional Priority	1 - 3
			PROJECT TOTAL (PRE-CERTIFICATION ESTIMATE)		
40-49 points = Certified 50-59 points = Silver 60-79 points = Gold 80 points and up = Platinum					

