



LEED v4.1 BD+C/ID+C

November 2020 Addenda

Produced by Canada Green Building Council



List of Substantive Changes in the LEED v4.1 BD+C/ID+C November 2020 Addenda

Prerequisite /Credit	Credit Title	Summary of Key Changes
Prerequisite (Healthcare only)	Integrative Project Planning and Design	No substantive changes
Credit	Integrative Process	Added language to consider site selection, social equity, and health and well-being, in addition to previous energy and water system considerations; projects teams select two from the list to consider on their project.
LOCATION AND TRANSPORTATION		
Credit	LEED for Neighborhood Development Location	No substantive changes
Credit	Sensitive Land Protection	No substantive changes
Credit	High-Priority Site	No substantive changes
Credit	Surrounding Density and Diverse Uses	<ul style="list-style-type: none"> • Added new option to use Walk Score • Added new option for Schools to earn up to 2 points for adjacent or infill locations, on previously developed sites.
Credit	Access to Quality Transit	Added new option for private shuttles (project-sponsored transit).
Credit	Bicycle Facilities	Allowed future planned bike routes within 3 years instead of 1.
Credit	Reduced Parking Footprint	<ul style="list-style-type: none"> • Option 1. No Off-street Parking. Combined with Option 2 to eliminate redundant requirements. • Option 2. Reduce Parking. Updated to directly reference base ratios for parking. • Option 3. Carshare. Replaced the current requirement for 1 carshare space per 100 occupants with 1% of total parking spaces. • Option 4. Unbundling Parking. Clarified that owner-occupied projects are eligible for this option by not offering free or subsidized parking.

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Credit	Green Vehicles (BD+C only)	<ul style="list-style-type: none"> • Option 1. Electric Vehicle Supply Equipment. Increased threshold from 2% to 5% of total parking spaces. Added requirement for ENERGYSTAR criteria. • Option 2. Electric Vehicle Charging Infrastructure. Increased threshold from 6% to 10% of total parking spaces. Criteria simplified.
SUSTAINABLE SITES (BD+C only)		
Prerequisite	Construction Activity Pollution Prevention	No substantive changes
Prerequisite (Healthcare & Schools only)	Environmental Site Assessment	No substantive changes
Credit	Site Assessment	No substantive changes
Credit	Site Development – Protect or Restore Habitat	<ul style="list-style-type: none"> • Revised thresholds: 15% for 1 point and 25% for 2 points • Removed soil test and simplified soil requirements • Clarified vegetation requirements by adding specific diversity criteria • Added pollinator garden requirements • Removed Option 2. Financial Support
Credit	Open Space	Minor clarifications (mostly to how presented)
Credit	Rainwater Management	<p>Streamlined language by moving non-requirements from the rating system to the guide</p> <ul style="list-style-type: none"> • Simplified ZLL path • Reincorporated Option 2. Natural landcover conditions
Credit	Heat Island Reduction	No substantive changes
Credit	Light Pollution Reduction	No substantive changes
Credit (Schools only)	Site Master Plan	No substantive changes
Credit (Core & Shell only)	Tenant Design and Construction Guidelines	No substantive changes

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Credit (Healthcare only)	Places of Respite	No substantive changes
Credit (Healthcare only)	Direct Exterior Access	No substantive changes
Credit (School only)	Joint Use of Facilities	No substantive changes
WATER EFFICIENCY		
Prerequisite	Outdoor Water Use Reduction	No substantive changes
Prerequisite	Indoor Water Use Reduction	No substantive changes
Prerequisite	Building-Level Water Metering	No substantive changes
Credit	Outdoor Water Use Reduction	No substantive changes
Credit	Indoor Water Use Reduction	No substantive changes
Credit	Cooling Tower Water Use	<ul style="list-style-type: none"> • Changed title to: Optimize Process Water Use • Aligned Option 1 requirements for cooling towers with ASHRAE 189.1-2017 • Revised Option 2 to recognize a range of cooling technologies, including air- and water-cooled systems • Allowance for District cooling systems
Credit	Water Metering	No substantive changes
ENERGY & ATMOSPHERE		
Prerequisite	Fundamental Commissioning and Verification	No substantive changes
Prerequisite	Minimum Energy Performance	Language added allowing Canadian project to use provincial GHG emissions factors from Portfolio Manager
Prerequisite	Building-Level Energy Metering	No substantive changes
Prerequisite	Fundamental Refrigerant Management	Prohibit the use of HCFCs in new HVAC&R equipment
Credit	Enhanced Commissioning	No substantive changes

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Credit	Optimize Energy Performance	<p>BD+C:</p> <ul style="list-style-type: none"> • Option 3: streamlined and simplified requirements; 6 points available <p>ID+C:</p> <ul style="list-style-type: none"> • Option 1: revised performance thresholds for Table 1 and Table 2 • Option 2: minor edits to align with BD+C thresholds; 17 points available (up from 15)
Credit	Advanced Energy Metering	No substantive changes
Credit	Grid Harmonization	<ul style="list-style-type: none"> • Case 2 and Case 3: Minor change to interval recording meters requirement • Case 3: Peak electrical demand is determined via the ASHRAE 90.1-2016 compliant case
Credit	Renewable Energy	<ul style="list-style-type: none"> • Streamlined Tier structure • Clarified treatment of renewable electricity and renewable energy • Adjusted thresholds for credit achievement • Reduced minimum contract length to 10 years. • Removed Option 2. Carbon Offsets
Credit	Enhanced Refrigerant Management	<p>Option 2:</p> <ul style="list-style-type: none"> • Added requirement to comply with ASHRAE Standard 15-2019: Safety Standard for Refrigeration Systems. • Added requirement to develop and implement a refrigerant management plan
MATERIALS & RESOURCES		
Prerequisite	Storage and Collection of Recyclables	Aligned Retail requirements with requirements for all other project types
Prerequisite	Construction and Demolition Waste Management Planning	Removed prerequisite, requirements now included in C&D Waste Management credit
Prerequisite	PBT Source Reduction - Mercury	No substantive changes

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Credit	Building Life-Cycle Impact Reduction (BD+C only)	<ul style="list-style-type: none"> • Combined Options 1-3 into single “Building and Material Reuse” option that covers all types of buildings; allows more projects to earn an additional point for reuse since previously one point was reserved only for historic buildings. New thresholds have been added with lower starting thresholds. • Minor edit to Option 2 - Whole Building LCA regarding baseline assumptions.
Credit	Interiors Life-Cycle Impact Reduction (ID+C only)	<p>Combined Options 1 and 2 into single option that provides more flexibility for credit achievement. New thresholds have been added with lower starting thresholds.</p> <ul style="list-style-type: none"> • Revised Option 3 to “Design for Flexibility and Disassembly”. • New option for interiors LCA.
Credit	Building Product Disclosure and Optimization – Environmental Product Declarations	<ul style="list-style-type: none"> • Removed “Building Product Disclosure and Optimization” from credit title • Minor edits to Option 1 • Streamlined Option 2 structure and moved focus to embodied carbon
Credit	Building Product Disclosure and Optimization – Sourcing of Raw Materials	<ul style="list-style-type: none"> • Removed “Building Product Disclosure and Optimization” from credit title • Updated bio-based referenced standards
Credit	Building Product Disclosure and Optimization – Material Ingredients	<ul style="list-style-type: none"> • Removed “Building Product Disclosure and Optimization” from credit title • Minor edits to Option 1 • Streamlined Option 2 structure
Credit	PBT Source Reduction – Mercury (Healthcare only)	No substantive changes
Credit	PBT Source Reduction – Lead, Cadmium, and Copper (Healthcare only)	No substantive changes
Credit	Furniture and Medical Furnishings (Healthcare only)	No substantive changes
Credit	Design for Flexibility (Healthcare only)	No substantive changes

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Credit	Construction and Demolition Waste Management	<ul style="list-style-type: none"> • Added prerequisite requirement to develop a C&D waste management plan • Restructured credit to focus on elements of waste prevention and management that are under a project team's control • Removed material streams and source separation.
INDOOR ENVIRONMENTAL QUALITY		
Prerequisite	Minimum Indoor Air Quality Performance	<ul style="list-style-type: none"> • Mechanically Ventilated Spaces Case 1: Move mechanical ventilation Option 2 to international ACP • Naturally Ventilated Spaces: Added ASHRAE 62.1-2016 addendum I • Removed CIBSE flow diagram (redundant with ASHRAE requirements)
Prerequisite	Environmental Tobacco Smoke Control	Move language addressing spaces outside property line used for business purposes to the reference guide.
Prerequisite	Minimum Acoustic Performance (Schools)	<ul style="list-style-type: none"> • Removed ASHRAE and AHRI standards for HVAC background noise • Replaced reverberation time referenced standard for large volume spaces (NRC-CNRC Construction Technology Update No. 51 with table developed based on UK Department for Education performance standard Building Bulletin 93) • Expanded exceptions to spaces not appropriately addressed in prerequisite requirements

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Credit	Enhanced Indoor Air Quality Strategies	<ul style="list-style-type: none"> • Options 1 and 2 removed; picklist of 10 IAQ strategies provided instead. Max 2 points (unchanged). Comply with 3 strategies for 1 point or 6 strategies for 2 points <p>New IAQ Strategies:</p> <ul style="list-style-type: none"> • Strategy 4. Filtration of Recirculated Air: MERV 13 filters or higher or equivalent filtration media class of ePM1 50% or higher, • Strategy 5. Increased Ventilation 15 Percent: Required for 95% of spaces • Strategy 7. Operable Windows: 75% of the regularly occupied spaces must have operable windows that provide access to outdoor air. Opening size according to ASHRAE 62.1-2016 with addendum I, section 6.4.1.2. <p>Changes to existing IAQ Strategies:</p> <ul style="list-style-type: none"> • Strategy 6 Increased Ventilation 30 Percent: required for 95% of all occupied spaces instead of all (100%) of spaces • Strategy 8. Engineered Natural Ventilation: Achieve Option 2. ASHRAE Engineered natural ventilation system compliance path under EQp Minimum IAQ Performance.
Credit	Low-Emitting Materials	<ul style="list-style-type: none"> • Added clarification for VOC budget • Revised product category definitions (product examples) • Revised definition of inherently non-emitting materials • Revised requirements for product compliance (third party certificates OR manufacturer statements) • Simplified composite wood language • Added ANSI/BIFMA e3 version for furniture (2019) • Revised credit contribution for furniture products meeting ANSI/BIFMA sections • Moved international standards to international/regional ACPs
Credit	Construction Indoor Air Quality Management Plan	No substantive changes

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Credit	Indoor Air Quality Assessment	Minor update to carbon monoxide monitor device accuracy.
Credit	Thermal Comfort	Moved Option 2. ISO standards to international ACP
Credit	Interior Lighting	Credit restructured. New options address glare control, approximate natural light, occupant control of light levels, and comfortable optics
Credit	Daylight	No substantive changes
Credit	Quality Views	<ul style="list-style-type: none"> • Revised view content criteria • Revised view access criteria • Added exclusions for auditoriums, conference rooms, gymnasiums • Clarified definitions for glazing characteristics (VLT, tint colors)
Credit	Acoustic Performance	<p>Schools:</p> <ul style="list-style-type: none"> • Removed ASHRAE and AHRI standards for HVAC background noise