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Canada Green Building Council
Every Building Greener



LEED Technical Bulletin

May 2014

Version française

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Important technical clarifications to EQp1 and natural ventilation strategies

The LEED Canada rating systems are intended to drive market transformation and promote the design and construction of buildings with a healthier and more productive indoor environment. Accordingly, one of the prerequisites in the LEED Canada rating system is to provide superior air quality for all building occupants using industry recognized ventilation standards such as ASHRAE 62.1.

In October 2013, the CaGBC released a [technical bulletin](#) titled "EQp1 for Multi-Unit Residential Buildings (MURBs)", which alerted the Canadian market to a potential misconception about the requirements of Indoor Environmental Quality Prerequisite 1 - Minimum IAQ Performance (EQp1) for mechanically ventilated MURBs. This technical bulletin reminded the market of the release of ASHRAE interpretation [IC-62.1-2007-20](#) and the changes brought about by addendum h of ASHRAE 62.1-2004, along with their potential implications to the mechanical design of residential projects in some markets in Canada. The technical bulletin also provided one example of a design solution that might meet the ventilation requirements of EQp1. There are many other ventilation design solutions that could meet EQp1 requirements; project designers must consider ventilation systems in the specific context of their project.

In response to feedback from the market following publication of the technical bulletin, the CaGBC has released CIR 1126 "Demonstrating compliance to EQp1 for MURBs". This CIR provides further technical clarifications to the ASHRAE 62.1 ventilation requirements under LEED Canada specifically for MURB projects. Three key considerations for designing MURB ventilation systems are outlined, and several examples are provided of systems that would be problematic in demonstrating compliance to the requirements of EQp1.

Additionally, CIR 1127 "Clarification for natural ventilation strategies" has been released and provides guidance on using natural ventilation to meet the requirements of EQp1 for all projects types in Canada. Note that this CIR marks June 2, 2014, as a significant date for projects with designs that rely on natural ventilation as either the sole means of supplying ventilation air or as a supplement to mechanical ventilation systems. Please refer to CIR 1127 for details.

If project teams have specific concerns about a project's ability to meet the requirements of EQp1, please send an email to info@cagbc.org. Be sure to include the CaGBC project number and a description of the specific technical concerns. However, please note that the CaGBC does not provide design advice.

The CaGBC Technical Bulletins provide notice of updates to LEED Canada reference materials, or in certain cases, where the CaGBC has recognized the existence of knowledge gaps or other concerns in the market. The CaGBC is not responsible for releasing updates on the latest developments or changes to building codes or design standards such as ASHRAE; it is the responsibility of the design team to remain current with the evolution of green building practices and standards in Canada.

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LEED v4 education at Building Lasting Change 2014

The CaGBC's National Conference, [Building Lasting Change 2014 in Toronto, June 2-4](#), is your one-stop destination for v4 education.

[Materials in LEED v4 workshop, sponsored by CSA](#)
[Launch of the Alternative Compliance Paths \(ACPs\) for the Canadian market](#)
[Homes 401: Green Rater Training Workshop](#)
[More LEED v4 focused education sessions during the Conference](#)

Materials in LEED v4 workshop, sponsored by CSA

Kick-off your conference experience with the CaGBC's first-ever '[Materials in LEED v4' half-day workshop](#) as a part of our pre-conference programming.

[Sponsored by CSA](#), this workshop will delve into the details of the [LEED v4 materials credits](#) – providing the information you need to ensure your products meet the needs of the green construction market, and helping those who specify materials understand how these new tools and information will lead to the use of healthier, more sustainable products.

Key expert sessions will include:

- Changes in Requirements with v4, with David Rekker, Principal Project Manager, MMM Group (and member of CaGBC's Materials Technical Advisory Group).
- Environmental Product Declarations, with Hilary Davies, Project Manager - Environment & Climate Change, CSA Group.
- Life Cycle Assessment (LCA) for Products, with Jamie Meil, Managing Director, Athena Institute.
- Product Ingredient Reporting, with Kathy Wardle, Director of Research, Perkins+Will.

[Click here to view full details on pricing, tentative schedule and to register.](#)

Launch of the Alternative Compliance Paths (ACPs) for the Canadian market

Join us for the official launch of the Canadian ACPs on June 3. This session will be hosted by the CaGBC's Mark Hutchinson, Director of Green Building Programs, who will explain how the CaGBC will be using these ACPs to identify equivalent means of demonstrating compliance to the credit requirements. This model for tailoring LEED to the Canadian market will simplify the development process and allow all 21 LEED rating systems to be made available to Canadians.

Homes 401: Green Rater Training Workshop

If you are interested in becoming a Green Rater, you need to complete the *HOMES 401: Green Rater Training*. Part of this training is being provided [through a two-day workshop offered for the first time](#) in Canada on June 4 and 5, 2014 in Toronto, in association with the CaGBC's [Building Lasting Change National Conference](#).

[Click here to read more, and to register today.](#)

More LEED v4 focused education sessions during the Conference

As a part of the [Transformative Power of LEED stream](#), CaGBC will offer additional LEED v4-specific sessions. They include:

- *Building Performance: The LEED Dynamic Plaque and LEED v4* (Master Speaker Series).
Presented by: Scot Horst, Senior Vice President, LEED, U.S. Green Building Council.
- *Environmental Product Declarations in Construction: a Solid Foundation for Green Buildings*
Presented by: Hilary Davies, Project Manager, Environment and Climate Change, CSA Group;
François Charron-Doucet, Scientific Coordinator, Quantis.
- *What Canadian Project Teams Need to Know or Should Consider for LEED version 4*
Presented by: Jenny McMinn, Green Planning and Design Business Manager, Halsall Associates;
Braden Kurczak, Manager, Business Development and Sustainability, MMM Group Limited; Mark
Lucuik, Director of Sustainability, Morrison Hershfield.

Look no further than [CaGBC's Building Lasting Change](#) for your latest LEED v4 info.
[Register today!](#)

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