

# LEED Canada

## New Construction and Major Renovations

LEED is a national third-party certification system that recognizes leadership in green building. 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 Canada for New Construction and Major Renovations Green Building Rating System and the LEED Canada for Core and Shell Development Green Building Rating System are set of performance standards for certifying the design and construction of commercial of institutional building and highrise residential buildings of all sizes, both public and private. The intent is to promote high-performance, healthful, durable, affordable, and environmentally sound practices in building design and construction. Prerequisites and credits in the LEED Canada for New Construction and Major Renovations 2009 and in the LEED Canada for Core and Shell Development 2009 address seven topics: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Design (ID), and Regional Priority (RP).



**ICYNENE**<sup>®</sup>

The Evolution of Insulation

# LEED Canada: New Construction and Major Renovations

LEED for New Construction (2009) Credit	Total Available Points	Relevant Benefit of Icynene Insulation and Air Barrier Material	Maximum Icynene Direct Point Contribution	
			Icynene Classic Icynene Classic Plus	Icynene MD-C-200v2 Icynene ProSeal
<b>EA:</b> Minimum Energy Performance	Prerequisite	Icynene insulation products may contribute towards meeting minimum energy performance improvements of option 1:  <b>PATH 1:</b> Reduce design energy consumption by 23% for new buildings or 19% for major renovations compared to a reference building designed to the Model National Energy Code for Buildings MNECB 1997),  <b>PATH 2:</b> ASHRA E 90.1-2007 Demonstrate a 10% cost improvement in the proposed building performance rating for new buildings, or a 5% cost improvement in the proposed building performance rating for major renovations to existing building, compared with the baseline building performance rating.	Prerequisite	Prerequisite
<b>EA1:</b> Optimize Energy Performance	19	Up to 13.1 % in overall building energy savings can be achieved with Icynene insulation versus traditional energy options. This can earn up to 6.5 points, assuming the minimum energy performance requirements for EA p2 were met through other means.  Note: Energy use study shows that over 50% (+) (commercial) and over 60% (+) (residential) of building energy consumption is attributed to space heating and cooling. (+) Energy Use Data Handbook Tables – Office of Energy Efficiency, Natural Resources Canada, 2008.	6.5* * LEED Canada – NC Points Tables for PAT H 1 and PAT H 2	6.5* * LEED Canada – NC Points Tables for PAT H 1 and PAT H 2
<b>IEQ1:</b> Minimum Indoor Air Quality Performance	Prerequisite	The reduction in air leakage and accompanying moisture movement provided by Icynene insulation products may contribute towards meeting the minimum requirements of Section 4 through 7 of ASHRA E 62.1-2007, Ventilation for Acceptable Indoor Air Quality. (with errata but without addenda)	Prerequisite	Prerequisite
<b>MR4:</b> Recycled Content	2	The 3.4% by weight of recycled content (normalized by adjusting for pre-consumer versus post-consumer) of Icynene MD-C-200V2 and Icynene ProSeal product can contribute towards the 10-20% of building material, based on cost, required to be made of recycled material, required to earn 1-2 points, respectively.	-	< 1

\* Independent performance assessment by Mindscape Innovations Group.

Icynene Inc. 6747 Campobello Road  
Mississauga, Ontario L5N 2L7 Canada

Ph: 1.800.758.7325 • ICYNENE.COM

SL-704 • Updated June 2015

