



# POTENTIAL CONTRIBUTION FOR LEED® CANADA-NC & CS 2009 REQUIREMENTS

# LEGERFOIL

**CREDITS**      **DURABLE STRATEGIES**      **POTENTIAL POINTS**      **CREDIT RELEVANCE**      **CONTRIBUTION AND COMPLIANCE\* Legerfoil**

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| EAp2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Minimum Energy Performance</b> | <b>0</b><br>(Required) | Direct | <b>Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>Requirements: NC &amp; CS</b></p> <p>Select 1 of the 3 compliance path options described below.</p> <p>Chosen option must also be used for EA Credit 1.</p> <p><b>Option 1 – Whole building simulation:</b></p> <p style="padding-left: 40px;">Either Model National Energy Code For Buildings (MNECB) or ASHRAE 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings.</p> <p>In comparison with the reference building performance rating, demonstrate a <b>23%</b> cost improvement in the proposed building performance rating for new buildings or a <b>19%</b> cost improvement in the proposed building performance rating for major renovations to existing buildings, for the <b>MNECB or 10%</b> cost improvement for new buildings or <b>5%</b> cost improvement for major renovations to existing buildings for <b>ASHRAE 90.1-2007</b>.</p> <p><b>Option 2 – Comply with the prescriptive measures of the ASHRAE Advanced Energy Design Guide</b> appropriate to the project scope, for one of the following path: for Small Office Buildings 2004 or for Small Retail Buildings 2006 or for Small Warehouses and Self-Storage Buildings 2008 or for K-12 School Buildings.</p> <p><b>Option 3 – Comply with the prescriptive measures identified in the Advanced Buildings™ Core Performance Guide developed by the New Buildings Institute.</b></p> |                                   |                        |        | <p><b>LEGERFOIL</b> is Legerlite EPS Type I insulation covered with a reflective vapor barrier and can be used for interior or exterior walls, foundations as well as under concrete floors.</p> <p>It can contribute to EA Prerequisite 2 with the following thermal resistance:</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p><b>48" x 96" x 2"</b> (R-11)<br/>12 sheets/package</p> <p><b>48" x 96" x 3"</b> (R-15.5)<br/>8 sheets/package</p> <p>Approved for use in NOVOClimat-certified homes</p> <p><b>Shiplapped Edges</b></p> <p><small>* When used with furring to create air space.</small></p> </div> <p><b>LEGERFOIL</b> conforms to National Building Code standards. It provides the protection of a humidity vapor barrier, plus the addition of reflectivity to the R-value of type I EPS insulation.</p> <p>The thermal resistance of this type of insulation is permanent due to its cellular structure which contains only stabilized trapped air. EPS performance does not diminish over time.</p> |

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| EA 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Optimize Energy Performance</b> | <b>1-19 points (NC)</b><br><b>3-21 points (CS)</b> | Direct | <b>Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>Requirements: NC &amp; CS</b></p> <p>Select 1 of the 3 compliance path options described below.</p> <p>Comply with EA Prerequisite 2 (Minimum Energy Performance).</p> <p><b>Option 1 – Demonstrate a percentage cost improvement</b> in the proposed building performance rating compared with reference building performance rating, according to the chosen path in EA Prerequisite 2. Up to 19 points (NC) or 21 points (CS).</p> <p><b>MNECB</b></p> <p>One point (1) LEED® NC and three (3) points LEED® CS for an expected cost reduction of <b>25%</b> (new buildings) or <b>21%</b> (existing buildings renovations).</p> <p><b>ASHRAE 90.1-2007</b></p> <p>One point (1) LEED® NC and three (3) points LEED® CS for an expected cost reduction of <b>12%</b> (new buildings) or <b>8%</b> (existing building renovations).</p> <p><b>Option 2 – Comply with the prescriptive measures of the ASHRAE Advanced Energy Design Guide</b> (1 point) appropriate to the project scope, for one of the following path: for Small Office Buildings 2004 or for Small Retail Buildings 2006 or for Small Warehouses and Self-Storage Buildings 2008 or for K-12 School Buildings.</p> <p><b>Option 3 – Comply with the prescriptive measures identified in the Advanced Buildings™ Core Performance Guide</b> developed by the New Buildings Institute. For this credit, additional points must be obtained with this option (3 points maximum).</p> |                                    |                                                    |        | <p><b>LEGERFOIL</b> is Legerlite EPS Type I insulation covered with a reflective vapor barrier and can be used for interior or exterior walls, foundations as well as under concrete floors.</p> <p>It can contribute to EA Prerequisite 2 with the following thermal resistance:</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p><b>48" x 96" x 2"</b> (R-11)<br/>12 sheets/package</p> <p><b>48" x 96" x 3"</b> (R-15.5)<br/>8 sheets/package</p> <p>Approved for use in NOVOClimat-certified homes</p> <p><b>Shiplapped Edges</b></p> <p><small>* When used with furring to create air space.</small></p> </div> <p><b>LEGERFOIL</b> conforms to National Building Code standards. It provides the protection of a humidity vapor barrier, plus the addition of reflectivity to the R-value of type I EPS insulation.</p> <p>The thermal resistance of this type of insulation is permanent due to its cellular structure which contains only stabilized trapped air. EPS performance does not diminish over time.</p> |

The LEGERLITE GROUP has all required documents regarding LEED® and can rapidly give information in a certified project.

ENERGY AND ATMOSPHERE (EA)

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.

Vertima record number: **FVERT-13-1031-25**

In effect since: Oct 2011

Last update: September 2014

Technical Data documented and validated by: [www.vertima.ca](http://www.vertima.ca)



| CREDITS | DURABLE STRATEGIES | POTENTIAL POINTS                | CREDIT RELEVANCE | CONTRIBUTION AND COMPLIANCE*<br>LEGERFOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|--------------------|---------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MR 3    | Materials Reuse    | 1-2 points (NC)<br>1 point (CS) | Direct           | <p><b>Comments</b></p> <p>LEGERFOIL product can contribute to this credit only when <b>reused or recycled in another project</b> or when reused for <b>another purpose in the same project</b>.</p> <p>When LEGERFOIL is installed for the first time, it cannot contribute to this credit.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MR 4    | Recycled Content   | 1-2 points                      | Direct           | <p><b>Comments</b></p> <p>LEGERFOIL can contribute to this credit because it has a <b>pre-consumer recycled content of 5% and post-consumer recycled content of 3.05%</b>.</p> <p>Percentages of recycled content are calculated based on the total weight of the product and don't take in consideration percentage of recycled content from internal waste of the LEGERLITE GROUP's production as per requested by LEED.</p> <p>The LEGERLITE GROUP prioritizes reuse, recycling and respect for the environment. To ensure that its products have no impact on the environment, its facilities are specially equipped to reuse all production waste.</p> <p><i>All data pertaining to components with a recycled content has been validated by a third party—Vertima.</i></p>                                                                               |
| MR 5    | Regional Materials | 1-2 points                      | Direct           | <p><b>Comments</b></p> <p>LEGERFOIL can contribute to this credit because <b>8.05%</b> of its components are extracted, harvested, recovered and processed within <b>800 km</b> of the final manufacturing site.</p> <p>The calculation of this percentage takes into consideration MR 5 Credit requirements and compliance with the conveyance radius.</p> <p>Moreover, the percentage excludes LEGERFOIL's main component for which the supplier is within 100 km of the LEGERLITE GROUP, but extraction of the raw material (liquid styrene) is done outside the radius to comply with.</p> <p>LEGERFOIL is made in <b>Pointe-Claire, Qc</b> (H9R 3S2). Origin of the major components and transportation method must be validated for every project.</p> <p><i>All data pertaining regional materials has been validated by a third party—Vertima.</i></p> |

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| INNOVATION IN DESIGN (ID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ID 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Innovation in Design Path 2. Exemplary performance | 1-3 points                                                                                   | Direct                                                                                                                                                                                                                                                                                                                    | Comments                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>Requirements</b></p> <p><b>Exemplary Performance:</b> Improve energy performance.</p> <p><b>Path 2:</b> One point (1) is awarded for achieving double the credit requirements and/or achieving the next incremental percentage threshold of an existing credit in LEED®.</p> <p><b>Exemplary performance for EA Credit 1:</b><br/>Optimize energy performance by more than <b>58%</b> cost improvement for new buildings and more than <b>54%</b> for renovating existing buildings for the <b>MNECB</b> and of <b>50%</b> and <b>46%</b> respectively for ASHRAE 90.1-2007.</p> |                                                    |                                                                                              |                                                                                                                                                                                                                                                                                                                           | <p>The <b>LEGERLITE GROUP</b> offers a variety of insulation promoting energy efficiency and offering air tightness and a strong reduction of thermal bridges, thus optimizing the efficiency of the building's energy performance depending on the chosen conception.</p> |
| REGIONAL PRIORITY (RP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RP 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Durable Building                                   | 1 point                                                                                      | Direct                                                                                                                                                                                                                                                                                                                    | Comments                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>Requirements</b></p> <p>Develop and implement a Building Durability Plan, in accordance with the principles in CSA S478-95 (R2007) - Guideline on Durability in Buildings, for the components within the scope of the Guideline, for the construction and pre-occupancy phases of the building.</p>                                                                                                                                                                                                                                                                              |                                                    |                                                                                              |                                                                                                                                                                                                                                                                                                                           | <p>The thermal resistance of this type of insulation is permanent due to its cellular structure which contains only stabilized trapped air. EPS performance does not diminish over time.</p>                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RP 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Regional Priority                                  | 1-3 points (NC)<br>1-3 points (CS)                                                           | Direct/indirect                                                                                                                                                                                                                                                                                                           | Comments                                                                                                                                                                                                                                                                   |
| <p><b>Requirements: NC &amp; CS</b></p> <p>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 <b>OR</b> more issues that have additional regional environmental importance.</p> <p>To achieve a Regional Priority credit, the applicant must identify LEED credits which have additional regional environmental importance.</p> <p><b>A project must achieve the base credit and then propose that credit as a Regional Priority credit.</b></p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |                                                                                              | <p>Please refer to the Advantages and Aspects to Consider section of the Regional Priority credit.</p> <p>For a list of applicable credits, please refer to the CaGBC website <a href="http://www.cagbc.org">www.cagbc.org</a>, under the LEED® tools section for the LEED® NC 2009 and LEED® CS 2009 Rating Systems.</p> |                                                                                                                                                                                                                                                                            |
| <p>The <b>LEGERLITE GROUP</b> has all required documents regarding <b>LEED®</b> and can rapidly give information in a certified project.</p>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |                                                                                              |                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |
| POINTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>TOTAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    | <p>UP TO<br/><b>32 POSSIBLE POINTS (NC)</b><br/>&amp;<br/><b>34 POSSIBLE POINTS (CS)</b></p> |                                                                                                                                                                                                                                                                                                                           | <p><b>LEGERFOIL can contribute up to a total of thirty-two (32) points for a LEED® Canada-NC 2009 project &amp; thirty-four (34) points for a LEED® Canada-CS project.</b></p>                                                                                             |



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