

CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE	CONTRIBUTION AND COMPLIANCE* LEGERPAN TYPE II
---------	--------------------	------------------	------------------	--

EAp2	Minimum Energy Performance	0 (Required)	Direct	Comments
Requirements: NC & CS <i>Select 1 of the 3 compliance path options described below.</i> <i>Chosen option must also be used for EA Credit 1.</i> Option 1 – Whole building simulation: <p style="text-align: center;">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 23% cost improvement in the proposed building performance rating for new buildings or a 19% cost improvement in the proposed building performance rating for major renovations to existing buildings, for the MNECB or 10% cost improvement for new buildings or 5% cost improvement for major renovations to existing buildings for ASHRAE 90.1-2007.</p> Option 2 – Comply with the prescriptive measures of the ASHRAE Advanced Energy Design Guide 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. Option 3 – Comply with the prescriptive measures identified in the Advanced Buildings™ Core Performance Guide developed by the New Buildings Institute.				<p>The LEGERPAN TYPE II system consists of a factory-laminated Legertoit or Legerpente Type II insulation panel, plus a Louisville Specialty Products Securpan panel.</p> <p>The LEGERPAN TYPE II system can contribute to EA Prerequisite 2 with a minimal thermal resistance of R-4.0 per inch of thickness.</p> <p>LEGERPAN TYPE II conforms to National Building Code standards and offers thermal insulation for roofs.</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>

EA 1	Optimize Energy Performance	1-19 points (NC) 3-21 points (CS)	Direct	Comments
Requirements: NC & CS <i>Select 1 of the 3 compliance path options described below.</i> Comply with EA Prerequisite 2 (Minimum Energy Performance). Option 1 – Demonstrate a percentage cost improvement 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). MNECB One point (1) LEED® NC and three (3) points LEED® CS for an expected cost reduction of 25% (new buildings) or 21% (existing buildings renovations). ASHRAE 90.1-2007 One point (1) LEED® NC and three (3) points LEED® CS for an expected cost reduction of 12% (new buildings) or 8% (existing building renovations). Option 2 – Comply with the prescriptive measures of the ASHRAE Advanced Energy Design Guide (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. Option 3 – Comply with the prescriptive measures identified in the Advanced Buildings™ Core Performance Guide developed by the New Buildings Institute. For this credit, additional points must be obtained with this option (3 points maximum).				<p>The LEGERPAN TYPE II system consists of a factory-laminated Legertoit or Legerpente Type II insulation panel, plus a Louisville Specialty Products Securpan panel.</p> <p>The LEGERPAN TYPE II system can contribute to EA Prerequisite 2 with a minimal thermal resistance of R-4.0 per inch of thickness.</p> <p>LEGERPAN TYPE II conforms to National Building Code standards and offers thermal insulation for roofs.</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.



CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE	CONTRIBUTION AND COMPLIANCE* LEGERPAN TYPE II
MR 3	Materials Reuse	1-2 points (NC) 1 point (CS)	Direct	<p>Comments</p> <p>The LEGERPAN TYPE II system can contribute to this credit only when reused or recycled in <u>another project</u> or when reused for <u>another purpose in the same project</u>.</p> <p>When LEGERPAN TYPE II system is installed for the first time, it cannot contribute to this credit.</p>
<p>Requirements</p> <p>NC: Use salvaged, refurbished or reused materials, the sum of which constitutes at least 5% (1 point) or 10% (2 points) based on cost of the value of materials on the project.</p> <p>CS: Use salvaged, refurbished or reused materials, the sum of which constitutes at least 5% (1 point), based on cost of the value of materials on the project.</p>				
MR 4	Recycled Content	1-2 points	Direct	<p>Comments</p> <p>The LEGERPAN TYPE II system can contribute to this credit because it has a pre-consumer recycled content of 18.50% and post-consumer recycled content of 6.50%.</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>
<p>Requirements: NC & CS</p> <p>Use materials with recycled content such that the sum of post-consumer recycled content plus 1/2 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.</p> <p>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.</p>				
MR 5	Regional Materials	1-2 points	Direct	<p>Comments</p> <p>The LEGERPAN TYPE II system can contribute to this credit because 23.50% of its components are extracted, harvested, recovered and processed within 800 km (500 miles) (2,400 km if shipped by rail or water) 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 LEGERPAN TYPE II system'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>The final manufacturing site of the LEGERPAN TYPE II system is in Pointe-Claire, Qc (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>
<p>Requirements: NC & CS</p> <p>Use building materials or products that have been extracted, harvested, recovered and processed within 800 km (500 miles) (2,400 km if shipped by rail or water) of the final manufacturing site.</p> <p>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.</p> <p>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 for each point threshold is 20% (1 point) or 30% (2 points).</p>				

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

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.





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

LEGERPAN TYPE II

	CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE	CONTRIBUTION AND COMPLIANCE* LEGERPAN TYPE II
MATERIAL & RESSOURCES	MR 7 NC MR 6 CS	Certified Wood	Applicable No FSC contribution	Direct	Comments
	Requirements 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, eood doors and finishes. Include materials permanently installed in the project.				The LEGERLITE GROUP doesn't have a FSC Certification, and nor does Securpan's manufacturer. However, Securpan is a wood fibre component of the LEGERFIBRE TYPE I panel and has to be considered for the MR 7 credit. The percentage of wood fibre component of LEGERFIBRE TYPE I panel is 5.23% and has been calculated according to the total weight of wood components (excluding post-consumer content).
INNOVATION IN DESIGN (ID)	ID 1	Innovation in Design Path 2. Exemplary performance	1-3 points	Direct	Comments
	Requirements Exemplary Performance: Improve energy performance. Path 2: One point (1) is awarded for achieving double the credit requirements and/or achieving the next incremental percentage treshold of an existing credit in LEED®. Exemplary performance for EA Credit 1: Optimize energy performance by more than 58% cost improvement for new buildings and more than 54% for renovating existing buildings for the MNECB and of 50% and 46% respectively for ASHRAE 90.1-2007 .				The LEGERLITE GROUP 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.
REGIONAL PRIORITY (RP)	RP 1	Durable Building	1 point	Direct	Comments
	Requirements 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 preoccupancy phases of the building.				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.
	RP 2	Regional Priority	1-3 points (NC) 1-3 points (CS)	Direct/indirect	Comments
Requirements: NC & CS 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 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.				Please refer to the Advantages and Aspects to Consider section of the Regional Priority credit. For a list of applicable credits, please refer to the CaGBC website www.cagbc.org , under the LEED® tools section for the LEED® NC 2009 and LEED® CS 2009 Rating Systems.	
<i>The LEGERLITE GROUP has all required documents regarding LEED® and can rapidly give information in a certified project.</i>					
POINTS	TOTAL		UP TO 32 POSSIBLE POINTS (NC) & 34 POSSIBLE POINTS (CS)	LEGERPAN TYPE II can contribute up to a total of thirty-two (32) points for a LEED® Canada-NC 2009 project & thirty-four (34) points for a LEED® Canada-CS project.	



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-13-1031-31**

In effect since : Oct 2011

Last update : September 2014

Technical Data documented and validated by :



www.vertima.com