



POTENTIAL CONTRIBUTION FOR LEED® CANADA-NC 2009 REQUIREMENTS

CREDITS

DURABLE STRATEGIES

POTENTIAL POINTS

CREDIT RELEVANCE

CONTRIBUTION AND COMPLIANCE* PROTEXSOUND DGD MEMBRANE

EAp2

Minimum energy performance

0 (required)

Direct

COMMENTS

Requirements

Select 1 of the 3 compliance path options described below.

Chosen option must also be used for EA Credit 1

Option 1 – Whole building simulation:

Either **Model National Energy Code For Buildings (MNECB)** or **ASHRAE 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings**.

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**.

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.

Mercier Wood Flooring's PROTEXSOUND DGD is thermo-acoustic and vapor barrier membrane who is ideal for construction and renovation of condominiums, apartment buildings and basements.

The PROTEXSOUND DGD membrane contribute to Prerequisite EA p2 because it has a thermal resistance of **R-0.439**.

The PROTEXSOUND DGD membrane block the cold coming from the sub floor and increase the performance of radiant heat systems. This membrane can therefore help maintain a stable and uniform indoor temperature and can raise the quality of life by increasing the level of comfort and energy efficiency throughout the year.

EA 1

Optimize energy performance

1 to 19 points (NC)

Direct

COMMENTS

Requirements

Select 1 of the 3 compliance path options described below.

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).

Mercier Wood Flooring's PROTEXSOUND DGD is thermo-acoustic and vapor barrier membrane who is ideal for construction and renovation of condominiums, apartment buildings and basements.

The PROTEXSOUND DGD membrane contribute to credit EA 1 because it has a thermal resistance of **R-0.439**.

The PROTEXSOUND DGD membrane block the cold coming from the sub floor and increase the performance of radiant heat systems. This membrane can therefore help maintain a stable and uniform indoor temperature and can raise the quality of life by increasing the level of comfort and energy efficiency throughout the year.

MERCIER WOOD FLOORING has all required documents regarding LEED® and can rapidly provide 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.

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MERCIER

wood flooring



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CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE	CONTRIBUTION AND COMPLIANCE* PROTEXSOUND DGD MEMBRANE
MR 4	Recycled content	1-2 points	Direct	COMMENTS
<p>Requirements</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>				<p>The PROTEXSOUND DGD membrane can contribute to this credit since it contains pre-consumer recycled content. However, it contains no post-consumer recycled content.</p> <p>The percentage of pre-consumer recycled content for the PROTEXSOUND DGD membrane is 38%.</p> <p>Percentage of recycled content is calculated based on the total weight of the entire system and exclude the percentage of recycled content from internal waste of Mercier Wood Flooring production as requested by LEED®.</p>
MR 5	Regional materials	Does not contribute	Direct	COMMENTS
<p>Requirements</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>				<p>The PROTEXSOUND DGD membrane does not contribute to this credit since its components are not extracted, collected, treated and recovered within 800 km by truck or 2,400 km by train or by boat of the final production site.</p> <p>The percentage calculation was performed by considering the requirements of Credit MR 5 and the maximum distance radius (which depends on the means of transportation used).</p> <p>This product final place of manufacturing is located in Quebec, Laval (H7L 3Z1).</p> <p>The origin of the main components and the mean of transportation used must be validated for every project.</p>

MATERIALS AND RESSOURCES (MR)

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IEQ 3.2

Management plan: before occupancy

1 point

Indirect

COMMENTS

INDOOR ENVIRONMENTAL QUALITY (IEQ)

Requirements

Develop an **IAQ** management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy.

Option 2 - Air Testing

Conduct baseline IAQ testing, after construction ends and **prior to occupancy**, using testing protocols consistent with the **United States Environmental Protection Agency Compendium of Methods for the Determination of Air Pollutants in Indoor Air** and as additionally detailed in the LEED® Canada Reference Guide for Green Building Design and Construction.

The PROTEXSOUND DGD membrane can indirectly contribute to this credit and can be beneficial to projects selecting the **option 2** in Credit IEQ 3.2: Air testing **prior to occupancy**.

Mercier Wood Flooring's PROTEXSOUND DGD membrane is non toxic, odorless, rot resistant, non allergenic and antibacterial and may therefore contribute to the interior air quality improvement (**IAQ**).

RP 2

Regional priority

1-3 points

Direct/
Indirect

COMMENTS

REGIONAL PRIORITY (RP)

Requirements

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.caqbc.org, under the LEED® tools section for the LEED® Canada-NC 2009 Rating Systems.



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POINTS

TOTAL

UP TO 25 POINTS

The PROTEXSOUND DGD membrane can contribute up to a total of twenty-five (25) points for a LEED® Canada-NC 2009 project

* It is important to consider that the total amount of possible points reflects the number of achievable points in each credit categories. The product by itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED® credits.

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