



POTENTIAL CONTRIBUTION FOR LEED® FOR SCHOOLS USGBC 2009 REQUIREMENTS

CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE
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CONTRIBUTION AND COMPLIANCE* BP INDUSTRIAL FIBER BOARD PANEL (3/8, 7/16 AND 1/2)

*AVAILABLE IN VARIOUS SIZES

MR 4

Recycled content

1-2 points

Direct

COMMENTS

Requirements

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.

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.

Mechanical, electrical and plumbing components, and specialty items such as elevators cannot be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in **MR Credit 3: Materials Reuse** through **MR Credit 7: Certified Wood**.

The **BP INDUSTRIAL FIBER BOARD PANEL** has a clay coating that ensures a smooth surface and allows better bonding properties. The **BP INDUSTRIAL FIBER BOARD PANEL** can contribute to this credit since it contains **pre-consumer** and **post-consumer recycled material** as shown in the table below:

Product	Pre-consumer	Post-consumer
BIN 3/8 po	91.1%	0%
BIN 7/16 po	91.8%	0%
BIN 1/2 po	93.5%	0.2%

Percentages of recycled content are calculated based on the total weight of the entire system and exclude the percentage of recycled content from internal waste of **BUILDING PRODUCTS OF CANADA CORP.** production as requested by LEED®.

MR 5

Regional materials

1-2 points

Direct

COMMENTS

Requirements

Use building materials or products that have been **extracted, harvested** or **recovered** as well as **manufactured**, within **500 miles (800 km)** of the **project site** for a minimum of **10%** or **20%**, based on cost, of the total materials value.

If only a **fraction of a product** or material is **extracted, harvested,** or **recovered** and **manufactured locally**, then only that percentage (by weight) must contribute to the regional value. The minimum percentage of regional materials is **10%** (1 point) or **20%** (2 points).

Mechanical, electrical and plumbing components, and specialty items such as elevators cannot be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in **MR Credit 3: Materials Reuse** through **MR Credit 7: Certified Wood**.

The **BP INDUSTRIAL FIBER BOARD PANEL** may contribute to this credit. **BUILDING PRODUCTS OF CANADA CORP.** can rapidly provide all the information concerning the extraction, collection, treatment and manufacturing sites for all its products.

The percentages of regional material will vary from one project to another. **BUILDING PRODUCTS OF CANADA CORP.** can provide precise percentages of regional material depending on the project location and specifications.

The **BP INDUSTRIAL FIBER BOARD PANEL** is made in **Pont-Rouge, QC, CAN (G3H 1S2)**.

MR 7

Certified wood

1 point

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 principles and criteria, for wood building components. These components include at a minimum, structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes.

Include only materials permanently installed in the project. Wood products purchased for temporary use on the project (e.g., formwork, bracing, scaffolding, sidewalk protection and guard rails) may be included in the calculation. If such materials are included, all such materials must be included in the calculation. Furniture may be included if it is included consistently in **MR Credit 3: Materials Reuse** through **MR Credit 7: Certified Wood**.

BUILDING PRODUCTS OF CANADA CORP. is **FSC® Mix** Credit certified. Certificate code **RA-COC-006310, FSC-C113184**.

The **BP INDUSTRIAL FIBER BOARD PANEL** can contribute to this credit since it contains **91.1%** (3/8" panel), **91.8%** (7/16" panel) and **93.5%** (1/2" panel) wood components. This product is made out of **100%** certified wood.

This percentage was computed based on the total weight of the wood components and excludes the post-consumer recycled content.

BUILDING PRODUCTS OF CANADA CORP. has all required documents regarding LEED® and can rapidly provide information in a certified project.

MATERIALS AND RESOURCES (MR)





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INDOOR ENVIRONMENTAL QUALITY (IEQ)

**CONTRIBUTION AND COMPLIANCE*
BP INDUSTRIAL FIBER BOARD PANEL
(3/8, 7/16 AND 1/2)
*AVAILABLE IN VARIOUS SIZES**

CREDITS	DURABLE STRATEGIES	POTENTIAL POINTS	CREDIT RELEVANCE
IEQp3	Minimum acoustical performance	0 (required)	Direct

Requirements

Achieve a maximum background noise level from heating, ventilating and air conditioning (HVAC) systems in classrooms and other core learning spaces of **45 dBA**.

Design classrooms and other learning spaces to include sufficient sound-absorptive finishes for compliance with reverberation time requirements as specified in **ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and guidelines for schools**.

Case 1—Classrooms and Core Learning Spaces < 20,000 Cubic Feet

Option 2

Confirm that the total area of acoustical wall panels, ceiling finishes, and other sound-absorbent finishes equals or exceeds the total ceiling area of the room (excluding lights, diffusers and grilles). Materials must have an NRC of **0.70** or higher to be included in the calculation.

Case 2—Classrooms and Core Learning Spaces ≥ 20,000 Cubic Feet

Confirm through calculations described in **ANSI Standard S12.60-2002** that all classrooms and core learning spaces greater than or equal to 20,000 cubic feet are designed to have a reverberation time of **1.5 seconds** or less.

IEQ 4.4	Low-emitting materials-composite wood and agrifiber products	Does not contribute	Direct
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Requirements

CREDIT 4.4 Composite Wood and Agrifiber Products (1 point)

All composite wood and agrifiber products installed in the building interior must meet the testing and product requirements of the **California Department of Health Services Standard Practice for Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers**, including 2004 Addenda.

IEQ 9	Enhanced acoustical performance	1 point	Direct
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Requirements

Sound Transmission - Design the building shell, classroom partitions and other core learning space partitions to meet the **Sound Transmission Class (STC)** requirements of **ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools**, except windows, which must meet as STC rating of at least 35.

AND

Background Noise - Reduce background noise level to **40 dBA** or less from heating, ventilating and air conditioning (HVAC) systems in classrooms and other core learning spaces.

COMMENTS

The **BP INDUSTRIAL FIBER BOARD PANEL** can contribute to Prerequisite **IEQp3** since it displays sound-absorbing properties.

This product's sound deadening characteristics may help project teams reach the required background sound level and contribute to achieving a high acoustical performance. In order to provide STC values for the **BP INDUSTRIAL FIBER BOARD PANEL**, the wall cavity must be defined including all its components, then subsequently tested as a whole

However, the **BP INDUSTRIAL FIBER BOARD PANEL** has a Noise Reduction Coefficient (NRC) of 0.30 for a 1/2" panel.

COMMENTS

The **BP INDUSTRIAL FIBER BOARD PANEL** cannot contribute to this credit since the product has not been tested according to the **California Department of Health Services Standard Practice for Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers**, including 2004 Addenda.

The **BP INDUSTRIAL FIBER BOARD PANEL** contains no added urea-formaldehyde. However, **BUILDING PRODUCTS OF CANADA CORP.** cannot be held responsible for the adhesives or other products that may be used to fabricate on site assemblies.

COMMENTS

The **BP INDUSTRIAL FIBER BOARD PANEL** can contribute to Credit **IEQ 9** since it displays sound-absorbing properties.

This product's sound deadening characteristics may help project teams reach the required background sound level and contribute to achieving a high acoustical performance. In order to provide STC values for the **BP INDUSTRIAL FIBER BOARD PANEL**, the wall cavity must be defined including all its components, then subsequently tested as a whole

However, the **BP INDUSTRIAL FIBER BOARD PANEL** has a Noise Reduction Coefficient (NRC) of 0.30 for a 1/2" panel.

BUILDING PRODUCTS OF CANADA CORP. has all required documents regarding LEED® and can rapidly provide 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® FOR SCHOOLS USGBC 2009 REQUIREMENTS

CREDITS DURABLE STRATEGIES POTENTIAL POINTS CREDIT RELEVANCE

CONTRIBUTION AND COMPLIANCE* BP INDUSTRIAL FIBER BOARD PANEL (3/8, 7/16 AND 1/2)

***AVAILABLE IN VARIOUS SIZES**

INNOVATION IN DESIGN (ID)

ID 1

Innovation in design

1-4 points

Direct

COMMENTS

Requirements

PATH 2. Exemplary Performance

Achieve exemplary performance in an existing LEED 2009 for Schools prerequisite or credit that allows exemplary performance as specified in the **LEED Reference Guide for Green Building Interior Design, 2009 Edition**. An exemplary performance point may be earned for achieving double the credit requirements and/or achieving the next incremental percentage threshold of an existing credit in LEED.

Exemplary performance MR 4: Recycled content

Achieving a total recycled-content value of **30%** or more.

Exemplary performance MR 7: Certified wood

If **95% or more** of the project's total new wood is **FSC® Certified wood**.

The **BP INDUSTRIAL FIBER BOARD PANEL** can contribute to the second path of this credit since it contains a high percentage of **pre-consumer recycled content and certified wood**.

These elevated percentages may help achieve an exemplary performance for the following credit:

MR 4: Recycled content

MR 7: Certified wood

REGIONAL PRIORITY (RP)

RP 1

Regional priority

1-4 points

Direct/indirect

COMMENTS

Requirements

Earn 1-4 of the 6 Regional Priority credits identified by the USGBC regional councils and chapters as having environmental importance for a project's region. A database of Regional Priority Credits and their geographic applicability is available on the USGBC website, <http://www.usgbc.org/>.

One point is awarded for each Regional Priority Credit achieved; no more than 4 credits identify as Regional Priority credits may be earned. The USGBC has prioritized credits for the projects located in the U.S., Puerto Rico, the U.S. Virgin Islands, and Guam. All other international projects should check the database for eligible Regional Priority credits.

Please refer to the Advantages and Aspects to Consider section of the Regional Priority credit.

A database of Regional Priority credits and their geographic applicability is available on the USGBC website, <http://www.usgbc.org>



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POINTS

TOTAL

UP TO 14 POSSIBLE POINTS

The BP INDUSTRIAL FIBER BOARD PANEL can contribute up to a total of fourteen (14) points for a LEED® for Schools 2009 USGBC 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.*

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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