



INFORMATION

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LEED for Schools PIEACP

Indoor Environmental Quality, Credit 4: Low Emitting Materials

The LEED Steering Committee (LSC) has approved a PIEACP for Indoor Environmental Quality, Credit 4: Low Emitting Materials. PIEACP stands for Performance/Intent Equivalent Alternative Compliance Path, and was established in the LEED Product Development and Maintenance Manual as “a strategy to ensure that LEED products remain technically relevant and market savvy.”

The alternate compliance methods below are not intended to replace any of the existing compliance paths currently available. Rather, these methods offer alternatives to the currently available paths. Current paths shall remain in place as accepted approaches for compliance with the low-emitting materials credits, and any alterations to these current paths will be subject to public ballot.

Please note that while there is currently no sunset for this PIEACP, this credit continues to be under review across rating systems. All LEED for Schools projects may use this PIEACP until further notice.

Please also note that the intent for this prerequisite remains unchanged:

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

LEED for Schools project teams are encouraged to use LEED for Schools EQc4 Low-Emitting Materials credits where possible, but may substitute LEED for New Construction credit requirements as needed. The key provisions of this PIEACP are as follows:

LEED for Schools 2007 project teams may substitute LEED for New Construction v2.2 EQc4 Low-Emitting Materials credits in place of corresponding LEED for Schools EQc4 Low-Emitting Materials credits. Project teams can achieve a maximum of 4 points under EQc4 according to Table 1 below.

LEED 2009 for Schools project teams may substitute LEED 2009 for New Construction EQc4 Low-Emitting Materials credits in place of corresponding LEED 2009 for Schools EQc4 Low-Emitting Materials credits. Project teams can achieve a maximum of 4 points under EQc4 according to Table 2 below.

See documentation guidance below the tables.

Table 1: LEED for Schools 2007 PIEACP

Low-Emitting Materials Credit Options (1 point each, for a maximum of 4 points)	Compliance Paths
Adhesives & Sealants	LEED for Schools Option 1 – Adhesives & Sealants OR LEED-NCv2.2 Credit 4.1 – Adhesives & Sealants
Paints & Coatings	LEED for Schools Option 2 – Paints & Coatings OR LEED-NCv2.2 Credit 4.2 – Paints & Coatings
Flooring Systems	LEED for Schools Option 3 – Flooring Systems OR LEED -NCv2.2 Credit 4.3 – Carpet Systems
Composite Wood & Agrifiber Products	LEED for Schools Option 4 – Composite Wood & Agrifiber Products OR LEED-NCv2.2 Credit 4.4 – Composite Wood & Agrifiber Products
Furniture & Furnishings	LEED for Schools Option 5 – Furniture & Furnishings
Ceiling & Wall Systems	LEED for Schools Option 6 – Ceiling & Wall Systems

Table 2: LEED 2009 for Schools PIEACP

Low-Emitting Materials Credit Options (1 point each, for a maximum of 4 points)	Compliance Paths
Adhesives & Sealants	LEED 2009 for Schools Option 1 – Adhesives & Sealants OR LEED 2009 for New Construction Credit 4.1 – Adhesives & Sealants
Paints & Coatings	LEED 2009 for Schools Option 2 – Paints & Coatings OR LEED 2009 for New Construction Credit 4.2 – Paints & Coatings
Flooring Systems	LEED 2009 for Schools Option 3 – Flooring Systems OR LEED 2009 for New Construction Credit 4.3 – Flooring Systems
Composite Wood & Agrifiber Products	LEED 2009 for Schools Option 4 – Composite Wood & Agrifiber Products OR LEED 2009 for New Construction Credit 4.4 – Composite Wood & Agrifiber Products
Furniture & Furnishings	LEED 2009 for Schools Option 5 – Furniture & Furnishings
Ceiling & Wall Systems	LEED 2009 for Schools Option 6 – Ceiling & Wall Systems

LEED for Schools 2007 Documentation Guidance

Provide a narrative at the bottom of the Schools template indicating that the credit substitution is being pursued for the relevant option(s). Under the “Uploaded Documents” section of EQc4, upload the corresponding NCv2.2 sample template(s) for the substituted options, completed with the project information. NCv2.2 sample templates can be found here:

<http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1447>

LEED 2009 for Schools Documentation Guidance

All documentation for LEED 2009 for New Construction substituted options must be provided within the available LEED for Schools form. When substituting an option, complete the special circumstances section. State the substitution for the relevant option(s) in the provided narrative box, and list the content of all uploaded documents. Provide all of the documentation listed below for each option for which substitution is being pursued.

IEQc4.1 Low-Emitting Materials - Adhesives and Sealants

- A table listing each adhesive and sealant used in the LEED project. Include:
 - Type
 - Manufacturer
 - Name / Model
 - VOC content in g/L (or % for aerosol adhesives)
 - Green Seal GS-03, Green Seal GS-11, or SCAQMD Rule 1113 Allowable VOC Content (g/L or %)
 - Source of VOC data (letter, cutsheet, MSDS sheet, etc)
 - If a cutsheet is provided
 - IF a product exceeds the VOC limit, also provide volume used (in liters), and the baseline and design case VOC (see reference guide for more information) to show the VOC budget
- IF a product exceeds the VOC limit, confirm that the product was used because there is no market alternative
- Provide manufacturer cutsheets or other supporting documentation for 20% of the materials listed in the table (by item, not cost)
- Confirm that all adhesives and sealants used on the inside of the weatherproofing system and applied on-site have been included in the table.

IEQc4.2 Low-Emitting Materials - Paints and Coatings

- A table listing each paint and coating used in the LEED project. Include:
 - Type
 - Manufacturer
 - Name / Model
 - VOC content in g/L
 - Green Seal GS-11, Allowable VOC Content (g/L)
 - Source of VOC data (letter, cutsheet, MSDS sheet, etc)
 - If a cutsheet is provided
 - IF a product exceeds the VOC limit, also provide volume used (in liters), and the baseline and design case VOC (see reference guide for more information) to show the VOC budget
- IF a product exceeds the VOC limit, confirm that the product was used because there is no market alternative
- Provide manufacturer cutsheets or other supporting documentation for 20% of the materials listed in the table (by item, not cost)
- Confirm that all paints and coatings used on the inside of the weatherproofing system and applied on-site have been included in the table.

IEQc4.3 Low-Emitting Materials - Paints and Coatings

- A table listing each floor and carpeting material used in the LEED project. Include:
 - Type
 - Manufacturer
 - Name / Model
 - Which standard is met (CA Dept of Health, CRI Green Label, etc)
 - The source of the compliance statement or certification program
 - If a cutsheet is provided
- A table listing each flooring adhesive and finish used in the LEED project. Include:
 - Type
 - Manufacturer
 - Name / Model
 - EITHER
 - If the product meets the CA Dept of health Standard
 - OR
 - VOC content in g/L (or % for aerosol adhesives)
 - Green Seal GS-03, Green Seal GS-11, or SCAQMD Rule 1113 Allowable VOC Content (g/L or %)
 - Source of VOC data (letter, cutsheet, MSDS sheet, etc)
 - If a cutsheet is provided
- Provide manufacturer cutsheets or other supporting documentation for 20% of the materials listed in the table (by item, not cost)

- Confirm that all flooring adhesive and finishes used on the inside of the weatherproofing system and applied on-site have been included in the table.

IEQc4.4 Low-Emitting Materials - Composite Wood and Agrifiber Products

- A table listing each composite wood and agrifiber product used in the LEED project. Include:
 - Type
 - Manufacturer
 - Name / Model
 - Confirmation that the product contains no added urea-formaldehyde
 - Source of UF data (letter, cutsheet, MSDS sheet, etc)
 - If a cutsheet is provided
- Confirm that all composite wood and agrifiber products used on the inside of the weatherproofing system and applied on-site have been included in the table.
- Confirm that all laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies contain no added urea-formaldehyde resins.
- Provide cutsheets or other documentation from the manufacturer showing that the product contains no added urea-formaldehyde for 20% of the products listed in each table, by item (not by cost).