Trespa® Decorative High-Pressure Compact Laminate (HPL) Panels
Potential Contributions to LEED® Credits for Indoor Environmental Quality

Leadership in Energy and Environmental Design (LEED) is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across a variety of the metrics. Developed by the U.S. Green Building Council (USGBC), LEED provides building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

The following category description is intended to provide guidance to specifiers, designers, builders, architects and owners with relevant information about how Trespa® products can contribute to the LEED program. Finished goods manufactured from Trespa decorative HPL panels can be evaluated as part of the entire building package for Indoor Environmental Quality (IEQ) credits in a variety of LEED rating systems. In the Low-Emitting Materials – Composite Wood and Agrifiber category, once certain prerequisites are met, Trespa decorative HPL panels can potentially contribute to the following credits:

<table>
<thead>
<tr>
<th>Rating System</th>
<th>Rating System Title</th>
<th>Section Credit ID</th>
<th>Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>New Construction and Major Renovation¹</td>
<td>IEQ Credit 4.4</td>
<td>1</td>
</tr>
<tr>
<td>SCHOOLS</td>
<td>Schools New Construction (Composite Wood Products)²</td>
<td>IEQ Credit 4.4</td>
<td>1</td>
</tr>
<tr>
<td>SCHOOLS</td>
<td>Schools New Construction (Furniture &amp; Furnishings)²</td>
<td>IEQ Credit 4.5</td>
<td>1</td>
</tr>
<tr>
<td>CI</td>
<td>Commercial Interiors (Composite Wood Products)³</td>
<td>IEQ Credit 4.4</td>
<td>1</td>
</tr>
<tr>
<td>CI</td>
<td>Commercial Interiors (System Furniture &amp; Seating)⁴</td>
<td>IEQ Credit 4.5</td>
<td>1</td>
</tr>
<tr>
<td>CS</td>
<td>Core and Shell Development⁵</td>
<td>IEQ Credit 4.4</td>
<td>1</td>
</tr>
<tr>
<td>EB-O&amp;M</td>
<td>Existing Buildings Operations &amp; Maintenance⁶</td>
<td>MR Credit 3</td>
<td>1</td>
</tr>
</tbody>
</table>

Rating Systems NC, EB-O&M, CI (Composite Wood and Agrifiber Products) and CS – Low-Emitting Materials:

*Intent:* To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

*Requirements:* To meet the requirements of these credits or to contribute toward achieving a credit (EB-O&M – Sustainable Purchasing), composite wood and agrifiber products used on the interior of the building (i.e. inside the weatherproofing system) must contain no added urea-formaldehyde. Materials considered fixtures, furniture and equipment are not considered base building elements and are not included in this credit (see IEQ Credit 4.5 below).

*Implementation:* The LEED program defines composite wood as a product consisting of wood or plant particles or fibers bonded by a synthetic resin or binder⁷. Trespa products are wood based fibers homogeneously reinforced with thermosetting resins, and manufactured under high pressure and at high temperatures. Therefore, Trespa products can reasonably be categorized as composite wood. Trespa decorative HPL panels contain no added urea-formaldehyde (click on the icon below for the supporting letter).

![No Added Urea Formaldehyde](image-url)

Disclaimer

LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. Therefore, Trespa products are not reviewed or certified under the LEED Rating System. The information provided in this summary is intended to provide an overview of how Trespa products may, in certain circumstances, contribute to the LEED points of a building. This summary is based on information, which is, in our opinion reliable. However, the summary is provided for information purposes only and is without guarantee. TNA recommends that the customer or architect obtain the independent advice of a design professional and/or construction consultant. For more information on LEED, visit www.usgbc.org/leed.
Rating Systems SCHOOLS (Composite Wood & Agrifiber Products and Furniture & Furnishing) and CI (System Furniture and Seating) – Low-Emitting Materials:

Intent: To reuse building materials and products to reduce demand for virgin materials and reduce waste, thereby lessening impacts associated with the extraction and processing of virgin resources.

Requirements: To meet the requirements of these credits, all composite wood and agrifiber products, including furniture, student and teacher desks, tables, seats, as well as all system furniture and seating that was manufactured, refurbished or refinished within 1 year prior to occupancy must be GREENGUARD Indoor Air Quality Certified® (material used in the Schools rating system must be GREENGUARD Children & Schools™ Certified).

Implementation: All Trespa decorative HPL panels are GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & Schools™ Certified and can contribute toward the continued certification of furniture processed from Trespa material. Confirmation of end product certification or licensing conformance must be verified with the furniture manufacturer. Certificates of compliance for all Trespa products can be found at www.greenguard.org.

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1. LEED Rating System for New Construction and Major Renovation (USGBC, 2009), 71
2. LEED Rating System for Schools New Construction and Major Renovation (USGBC, 2009), 69
3. LEED Rating System for Commercial Interiors (USGBC, 2009), 51
4. LEED Rating System for Commercial Interiors (USGBC, 2009), 52
5. LEED Rating System for Core and Shell Development (USGBC, 2009), 69
6. LEED Rating System for Existing Buildings Operations and Maintenance (USGBC, 2009), 46
7. LEED Reference Guide for Green Building Design and Construction (USGBC, 2009), 626
Trespa® Decorative High-Pressure Compact Laminate (HPL) Panels
Potential Contributions to LEED® Credits for Materials Reuse

Leadership in Energy and Environmental Design (LEED) is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across a variety of the metrics. Developed by the U.S. Green Building Council (USGBC), LEED provides building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

The following category description is intended to provide guidance to specifiers, designers, builders, architects and owners with relevant information about how Trespa® products can contribute to the LEED program. Finished goods manufactured from Trespa decorative HPL panels can be evaluated as part of the entire building package for Materials and Resources (MR) credits in a variety of LEED rating systems. In the Materials Reuse category, once certain prerequisites are met, Trespa decorative HPL panels can potentially contribute to the following credits:

<table>
<thead>
<tr>
<th>Rating System</th>
<th>Rating System Title</th>
<th>Section Credit ID</th>
<th>Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>New Construction and Major Renovation¹</td>
<td>MR Credit 3</td>
<td>1 or 2</td>
</tr>
<tr>
<td>SCHOOLS</td>
<td>Schools New Construction and Major Renovation²</td>
<td>MR Credit 3</td>
<td>1 or 2</td>
</tr>
<tr>
<td>CI</td>
<td>Commercial Interiors (Building Materials)³</td>
<td>MR Credit 3.1</td>
<td>1 or 2</td>
</tr>
<tr>
<td>CS</td>
<td>Core and Shell Development⁴</td>
<td>MR Credit 3</td>
<td>1</td>
</tr>
</tbody>
</table>

Rating Systems NC, SCHOOLS, CS and CI (Building Materials) – Materials Reuse:

Intent: To reuse building materials and products to reduce demand for virgin materials and reduce waste, thereby lessening impacts associated with the extraction and processing of virgin resources.

Requirement: One point can be earned by using salvaged, refurbished or reused materials, the sum of which constitutes at least 5% (based on cost) of the total value of materials on the project. An additional point can be earned by using at least 10% (based on cost) of the total value of materials on the project (additional point not applicable to Core and Shell Rating System). Material costs for the project can be determined according to CSI MasterFormat 2004 Edition from the project schedule of values.⁵

Implementation: Due to their extensive life expectancy, Trespa panels have the potential to be salvaged, refurbished and/or reused during the renovation of a building. The panels can then be used on a new construction project or somewhere else on the existing building. Applications for reuse can be exterior and interior wall panels, decorating accent panels and furniture made with Trespa material. Note: Prior to reuse of any materials, Trespa strongly recommends that the customer and architect confirm compliance with specific code, design and performance requirements.

Reused and Salvaged – Regional Materials

Reused materials that have been judged to sufficiently satisfy the requirements of MR Credit 3 – Materials Reuse – may also be classified as Regional Materials⁶. As guidance, use the location from which the materials were salvaged as the point of extraction and the location of the salvaged goods vendor as the point of manufacture. Panels salvaged on-site or within 500-miles automatically qualify.

¹ LEED Rating System for New Construction and Major Renovation (USGBC, 2009), 51
² LEED Rating System for Schools New Construction and Major Renovation (USGBC, 2009), 53
³ LEED Rating System for Commercial Interiors (USGBC, 2009), 31
⁴ LEED Rating System for Core and Shell Development (USGBC, 2009), 52
⁵ LEED Reference Guide for Green Building Design and Construction (USGBC, 2009), 366
⁶ LEED Reference Guide for Green Building Design and Construction (USGBC, 2009), 382

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