



The U.S. Green Building Council (USGBC) has developed the LEED® Green Building Rating System™, a voluntary, consensus-based national standard for developing high-performance, sustainable buildings. No product or building material may be accurately classified as "LEED certified." The LEED rating system was designed to classify entire building projects. As a high-performance surfacing material, Lamin-Art® brand high-pressure decorative laminate should be considered for its "green" characteristics in cooperation with all materials used in a given building project. HPL alone cannot earn points under the LEED rating system.

LEED awards points in five credit areas of design and construction practices:

- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality

Lamin-Art® brand premium high-pressure decorative laminate may contribute to the following credits under LEED for New Construction (Version 2.2) and LEED for Commercial Interiors (Version 2.0):

## ■ RECYCLED CONTENT

### (Materials & Resources Credits 4.1 & 4.2)

*"Use materials, including furniture and furnishings, with recycled content such that the sum of post-consumer recycled content plus one-half of the post-industrial content constitutes at least 10% of the total value of the materials in the project."*

Lamin-Art brand high-pressure decorative laminates contain approximately 40% recovered paper from the manufacturing process. In addition, our Abacá collection is made with recycled banana fibers which make up approximately 1% of the total weight of the product.

To determine the recycled content value of HPL, use the following equation:

$$\text{Recycled Content Value (\$)} = \text{Material Costs (\$)} \times [\% \text{Post-Consumer} + (1/2) \text{ Post-Industrial}]$$

The sum of all material recycled content values divided by the total material costs for a project must equal 10% to achieve 1 point for this LEED credit area. A bonus point is awarded if the percentage is 20% or greater.

## ■ LOCAL/REGIONAL MATERIALS

### (Materials & Resources Credit 5.1/5.2)

*"Use a minimum of 20% of the combined value of construction and Division 12 (Furniture) materials and products that are manufactured regionally within a radius of 500 miles. Manufacturing refers to the final assembly of components into the building product that is furnished and installed by the tradesmen."*

The point of final assembly is considered the starting point for determining the 500 miles radius requirement for this credit. In the case where a fabricator manufactures project installation components off-site using our HPL, the 500 mile requirement refers to the distance between the fabricator's facility and the installation location. In the case where our laminate is applied on-site, the installation location should be within 500 miles of our manufacturing facility in Montreal, Quebec, Canada to qualify.

## ■ LOW-EMITTING MATERIALS: ADHESIVES & SEALANTS

### (Indoor Environmental Quality Credit 4.1)

*"All materials listed below that are used in the building interior (i.e., the inside of the exterior moisture barrier) must not exceed the following requirements:*

*Adhesives, Sealants and Sealant Primers: South Coast Air Quality Management District (SCAQMD) Rule #1168 requirements in effect on January 1, 2003 and rule amendment dated October 3, 2003.*

*Aerosol Adhesives: Green Seal Standard GC-36 requirements in effect on October 19, 2000."*

Lamin-Art brand high-pressure laminate can be installed with adhesives and adhesive systems that meet the requirements listed in this section. Be sure to consult adhesive manufacturers' product data and application procedures.

## ■ LOW-EMITTING MATERIALS: COMPOSITE WOOD AND LAMINATE ADHESIVES

### (Indoor Environmental Quality Credit 4.2)

*"Composite wood and agrifiber products including core materials, must contain no added urea-formaldehyde resins. Laminate adhesives used to fabricate on-site and shop applied assemblies containing these laminate adhesives must contain no urea-formaldehyde."*

Lamin-Art brand high-pressure laminate can be applied to many of the low VOC substrates that are now available in the marketplace. Be sure to consult the manufacturers' product data and application procedures.

## ■ LOW-EMITTING MATERIALS, SYSTEMS FURNITURE AND SEATING

### (Indoor Environmental Quality Credit 4.5)

*"All systems furniture and seating introduced into the project space that has been manufactured, refurbished or refinished within one year prior to occupancy must meet one of the requirements below:*

*"Systems furniture is defined as either a panel-based workstation comprised of modular interconnecting panels, hang-on components and drawer/filing components or a freestanding grouping of furniture items and their components that have been designed to work in concert. Seating is defined as task and guest chairs used with systems furniture. Furniture other than systems furniture and task and guest chairs used with systems furniture is defined as occasional furniture and is excluded from the credit requirements."*

*Option A: GREENGUARD Indoor Air Quality Certified®*

*Option B: Calculated indoor air concentrations that are less than or equal to established limits (See LEED-CI, Indoor Environmental Quality, Credit 4.5, Table 1). Concentrations must be determined by a procedure based on the U.S. Environmental Protection Agency's Environmental Technology (ETV) Large Chamber Test Protocol for Measuring Emissions of VOCs and Aldehydes (September 1999) testing protocol conducted in an independent air quality testing laboratory."*

Although this requirement refers specifically to the final assembly of systems furniture and seating, Lamin-Art® high-pressure decorative laminates are **GREENGUARD Indoor Air Quality Certified®**. Our Veneer-Art™ product line has not been certified by the GREENGUARD Environmental Institute, however the formaldehyde emissions from our Veneer-Art products have been tested according to ASTM E-1333-90, Standard Test Method for Determining Formaldehyde Levels From Wood Products Under Defined Test Conditions Using a Large Chamber, and was found to be below the OSHA Permissible Exposure Limit (PEL) of 0.75 parts per million.

**For more information on the LEED Rating System, visit the U.S. Green Building Council's website at [www.usgbc.org](http://www.usgbc.org)**

**For more information on GREENGUARD certification, visit the GREENGUARD Environmental Institute at [www.greenguard.org](http://www.greenguard.org)**