



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 directly contribute to the following credits under *LEED v3* and *LEED Canada NC 2009 and CI*:

■ RECYCLED CONTENT

(Materials & Resources Credit 4)

"Use materials, including furniture and furnishings, with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% or 20% based on cost of the total value of the materials in the project."

Lamin-Art brand high-pressure decorative laminates contain between 11% and 18% post-consumer recycled content, depending on the grade (GP48 Standard Grade=11%, GP28 Vertical Grade=18%). In addition, our Abacá collection is made with recycled banana fibers (pre-consumer) 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.

■ REGIONAL MATERIALS

(Materials & Resources Credit 5)

"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 (800km)."

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 (800km) of our manufacturing facility in Montreal, Quebec, Canada to qualify.

■ RAPIDLY RENEWABLE MATERIALS

(Materials & Resources Credit 6)

"Use rapidly renewable construction and Division 12 (Furniture and Furnishings) materials and products for 5 % of the total value (\$) of all materials and products used in the project. Rapidly renewable building materials and products are made from plants that are typically harvested within a 10-year or shorter cycle."

The kraft and decorative papers that are used in the manufacture of Lamin-Art high-pressure decorative laminate are sourced from responsibly managed forests that are SFI certified (Sustainable Forestry Initiative). One of the requirements for SFI certification of these forests is that trees are harvested and re-planted within a 10-year cycle. No rain forest timber or tropical hardwoods are used in our products.

Lamin-Art encourages the application of green design strategies throughout a project. In that spirit, Lamin-Art brand high-pressure decorative laminate is suitable to use with materials and adhesives that meet the criteria for the following LEED credits. Lamin-Art high-pressure decorative laminate itself cannot directly contribute to earning points for these credits.

■ LOW-EMITTING MATERIALS: ADHESIVES & SEALANTS

(Indoor Environmental Quality Credit 4.1)

"All adhesives and sealants used on the interior of a building (i.e. inside of the waterproofing system and applied on-site) must comply with the requirements as applicable to the project scope. Adhesives, sealants and sealant primers must comply with South Coast Air Quality Management District (SCAQMD) Rule #1168 Volatile Organic Compounds (VOC) limits effective July 1, 2005. Aerosol Adhesives must comply with Green Seal Standard GS-36 requirements effective 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 AGRIFIBER PRODUCTS

(Indoor Environmental Quality Credit 4.4)

"Composite wood and agrifiber products used on the interior of the building (i.e. inside the weatherproofing system) must contain no added urea-formaldehyde resins. Laminate adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain urea-formaldehyde resins."

Composite wood and agrifiber products are defined as: particleboard, medium density fiberboard (MDF), plywood, wheatboard, strawboard, panel substrates and door cores. Materials considered fixtures, furniture, and equipment (FF &E) are not considered base building elements and are not included.

Lamin-Art brand high-pressure laminate contains no added urea-formaldehyde and 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 1: GREENGUARD Indoor Air Quality Certified®

Option 2: Calculated indoor air concentrations that are less than or equal to established limits (See LEED 2009 for Commercial Interiors, IEQ 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."

Option 3: Calculated indoor air concentrations that are less than or equal to established limits (See LEED 2009 for Commercial Interiors, IEQ Credit 4.5, Table 1) for furniture systems and seating. Concentrations must be determined by a procedure based on ANSI/BIFMA M7.1-2007 and ANSI/BIFMA X7.1-2007 testing protocol conducted in an independent third party air quality testing laboratory.

Lamin-Art® high-pressure decorative laminates are **GREENGUARD Indoor Air Quality Certified®**.

For more information on the LEED Rating System, visit the U.S. Green Building Council's website at www.usgbc.org or the Canada Green Building Council's website at www.cagbc.org.

For more information on GREENGUARD certification, visit the GREENGUARD Environmental Institute at www.greenguard.org