



## Environmental Policy

Bendheim recognizes environmentally-friendly manufacturing practices as a necessity for building and securing our sustainable future. These practices also provide our employees with a safe, comfortable work environment, and are an added value to our clients and the community.

Our efforts include substantial investment in advanced green manufacturing processes throughout our processing facilities, as well as building partnerships with glass manufacturers demonstrating commitment to the environment through recycling and clean production practices.

Bendheim is proud to be working with responsible glass manufacturers. Among our principal partners for many decades is the Glasfabrik Lamberts of Germany, the largest privately held cast glass factory in Europe. Lamberts produces a wide range of glass products exclusively for Bendheim in North America, including Lamberts Channel Glass and a variety of patterned architectural glasses. Lamberts' deep commitment to the environment is evident throughout their one million+ square foot manufacturing facility. Incorporating specialized sorting and screening systems, Lamberts utilizes a large percentage, approximately 40%, of post-consumer glass recycled from the municipal waste stream. Lamberts' advanced oxygen-fueled cast glass furnace is the only one of its kind in Europe. The ultra-clean-burning oxygen-fuel mix reduces nitrogen oxide emissions by a factor of 5 when compared to conventional air-fuel-burning furnaces. Lamberts' specialized cooling ponds contain grass-eating carp, eliminating the need for chemical algaecides. A sophisticated system of electrical filters reduces particulates in waste gasses generated by the glass melting process. The resulting emissions are substantially below strict air quality regulations.

Bendheim's commitment to the environment continues through the carefully selected, advanced manufacturing processes and machines used in our New Jersey production facility. Bendheim employs a highly energy-efficient tempering oven. Unlike most other tempering equipment used by domestic and foreign glass manufacturers, its advanced oscillating drive system does not require the use of sulfur dioxide (SO<sub>2</sub>). SO<sub>2</sub> emissions are known to produce acid rain, and direct exposure to the gas may cause permanent pulmonary damage and other health problems. Specialized noise-reduction housing surrounds the cooling area of Bendheim's tempering oven minimizing sound pollution and providing a community-friendly work environment. Our lamination line generates environmentally-safe security glasses. Our paint process produces thousands of feet of color-coated glass per month and utilizes specialty paints minimizing VOC emissions, resulting in an environmentally-friendly and safe, 100% VOC-free product. Packing methods at Bendheim are also carefully monitored to ensure maximum utilization of recycled materials. From start to finish, Bendheim ensures the foremost environmentally-friendly production of glass.

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### About LEED

The Leadership in Energy and Environmental Design (LEED®) Green Building Rating System™ is a nationally recognized standard set forth by the United States Green Building Council (USGBC) to help building and design professionals across the country "improve the quality of our buildings and their impact on the environment." The benefits of green building include: long-term energy saving; reduced operational cost; a positive impact on the environment, public health and welfare; and more. While the LEED rating system does not certify specific building materials or individual manufacturers, LEED standards do recognize the vital role of environmentally-sound product selection throughout the building process. The result of the LEED Green Building Rating System is a point-based method to evaluate how eco-friendly a building is.

Bendheim provides a range of specialty glasses produced by environmentally sensitive manufacturers in order to help architects and designers earn LEED points for their projects. Our wide range of specialty glass types include: tempered; laminated; patterned; high-performance (low-e, etc.); low-iron; color-coated glass; and more.

Bendheim channel glass is installed in a number of award-winning LEED certified projects throughout the country. The sites include the Bronx Library - New York City's first LEED public building; and the Santa Monica Civic Center Parking Garage, among others.

We provide this document to assist building and design professionals interested in LEED to make informed decisions about incorporating specialty architectural glass in their projects. This document is not provided in lieu of actual LEED documentation. For details, please refer to the official USGBC web site at [www.usgbc.org](http://www.usgbc.org).

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## LEED Category: Energy and Atmosphere

### EA Credit 1: Optimize Energy Performance (1 – 19 Points)\*

Intent: Achieve increasing levels of energy performance above the baseline in the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

Bendheim's contribution: LINIT Channel Glass with performance coatings and/or insulation in a range of decorative textures for building envelopes maximizing energy performance; clear and colored patterned and etched glasses and laminates to maximize daylighting and minimize daytime lighting costs.

## LEED Category: Materials & Resources

### MR Credit 4: Recycled Content (1 – 2 Points)\*

Intent: To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

Bendheim's contribution: Glass manufacturing employs a high percentage of recycled materials, in some cases as high as the 40% post-consumer content found in select Bendheim textured architectural glasses and our Lamberts LINIT channel glass.

### MR Credit 5: Regional Materials (1 – 2 Points)\*

Intent: To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Bendheim's contribution: Contingent on the project location and specific glass type, call 1-800-835-5304 for more information.

## LEED Category: Indoor Environmental Quality

### IEQ Credit 7.1: Thermal Comfort – Design (1 Point)\*

Intent: Provide a comfortable thermal environment that promotes occupant productivity and well-being.

Bendheim's contribution: Bendheim Wall Systems' LINIT Lamberts channel glass with high-performance coatings and/or insulation materials for the building envelope.

### IEQ Credit 8.1: Daylight & Views: Daylight 75% of Spaces (1 Point)\*

### IEQ Credit 8.2: Daylight & Views: Views for 90% of Spaces (1 Point)\*

Intent: Provide for the building occupants a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the building.

Bendheim's contribution: Bendheim maintains over 2,000 types of decorative clear and patterned architectural glass, allowing natural light and views into the building, as well as a variety of etched glasses diffusing daylight and minimizing glare; Bendheim Wall Systems' LINIT channel glass is an ideal daylighting material for exterior and interior applications.

\* Listed categories and points are based on LEED® for New Construction and Major Renovations v.3, 2009. The "USGBC Member Logo" is a trademark owned by the U.S. Green Building Council and is used by permission. The logo signifies only that Bendheim is a USGBC member; USGBC does not review, certify, or endorse the products or services offered by its members.