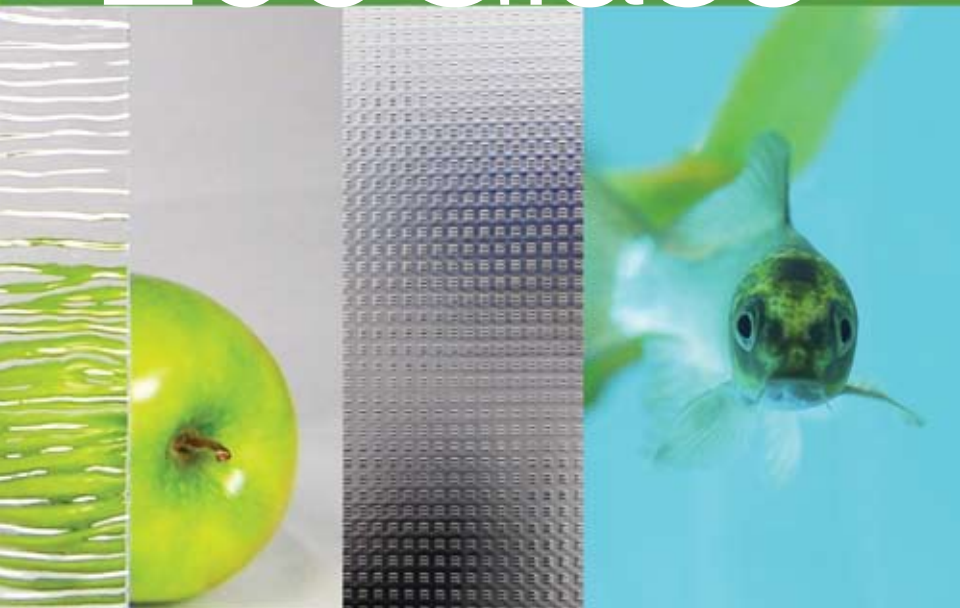




BENDHEIM

EcoGlass™

ARCHITECTURAL GLASS
FOR THE ENVIRONMENT



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BENDHEIM: THE RESOURCE





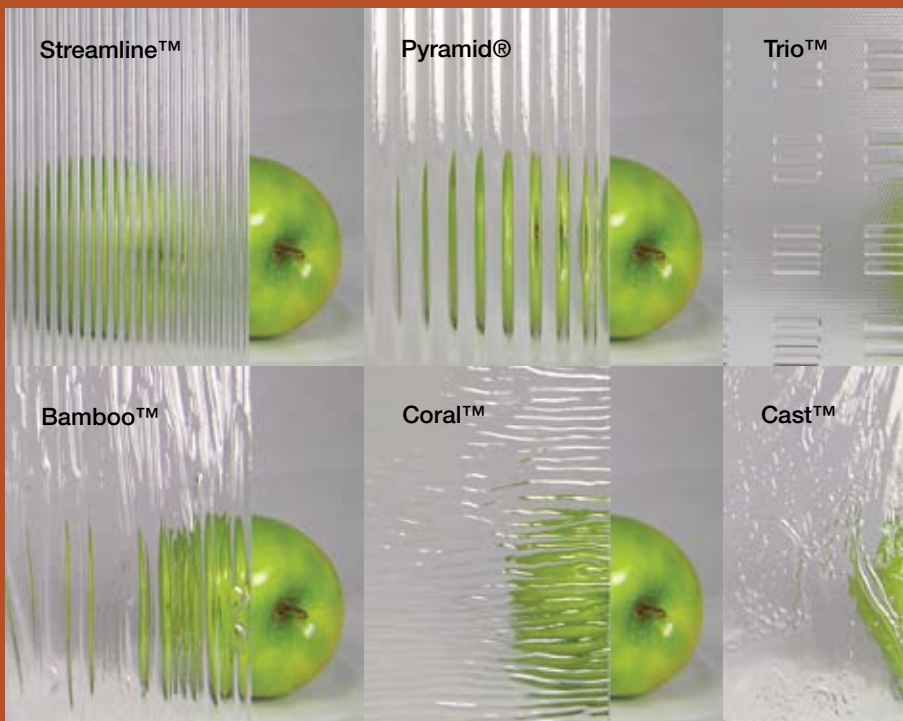
Herringbone™

FOR SPECIALTY GLASS *Since 1927*

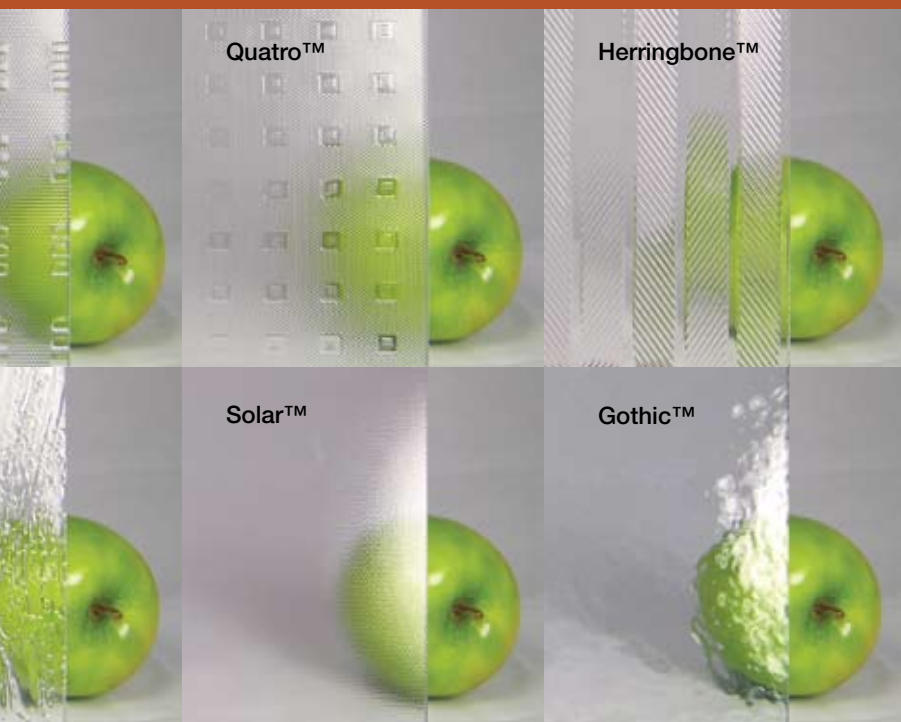
The Bendheim EcoGlass Collection is comprised of textured architectural glasses produced through exceptional green manufacturing practices and a very high percentage of recycled glass.

Manufactured exclusively for Bendheim in North America by the world-renowned Lamberts glass factory in Germany, EcoGlass is the result of our companies' mutual efforts to provide sustainable architectural glass options to the design community.

From its manufacture, to its application, EcoGlass was created for truly green building projects requiring intelligent design solutions.



60% Recycled Glass (40% Post-Consumer)
Cleanly Manufactured
Ideal Daylighting Material



ECOGLASS DESIGN

Available in a range of transparent textures offering different levels of obscuration, EcoGlasses can enhance most daylighting applications. EcoGlasses can enhance most daylighting applications. EcoGlasses can enhance most daylighting applications. EcoGlasses can enhance most daylighting applications. EcoGlasses can enhance most daylighting applications. EcoGlasses can enhance most daylighting applications. Its 60% recycled content reduces new / renovated buildings' carbon footprint.

- Partitions
- Shower enclosures
- Feature walls
- Sliding doors
- Door and cabinet inserts
- Table and counter tops
- Lighting
- Decorative accents





60% RECYCLED
CONTENT

EcoGlass is a product born of commitment to the environment. Its journey begins in Germany through the glass factory Lamberts' utilization of recycled glass. Sophisticated, computer-aided filtering systems redirect discarded glass from the municipal waste stream to comprise up to **40% post-consumer** content of the new EcoGlasses. Lamberts' internal recycling process further reuses factory production breakage for an additional **20% pre-consumer recycled content**. The fine-tuned recycling system ensures the most homogenous glass cullet is employed, guaranteeing the quality and brilliance of EcoGlass.

BENDHEIM ECO- TRANSFORMATION

Bendheim employs a **highly energy-efficient** tempering oven to provide Eco-Glasses for a variety of safety and security applications. Unlike most tempering equipment used by the majority of domestic and foreign glass processors, its advanced oscillating drive system allows **SO₂-free** (sulfur dioxide free) processing. SO₂ emissions are known to produce acid rain and may cause permanent health problems.

Specialized noise-reduction housing surrounds the quench (cooling area) of the tempering oven minimizing sound pollution and providing a community-friendly work environment.



“Architectural Glass for the

CastTM

Environment”

For specialty applications, EcoGlass in laminated form is processed utilizing environmentally-safe equipment and materials.

Bendheim's color coating process can transform EcoGlass into **custom wall cladding with green benefits**. From feature walls to residential backsplashes, Color Coated EcoGlass delivers vibrant, maintenance-friendly opaque glasses. Bendheim's proprietary coloring process employs specialized water-based coatings, resulting in an enviro-friendly, **VOC-free**, and safe product.



“Architectural Glass for the

Quattro™

Environment”

LAMBERTS' CLEAN CREATION



LAMBERTS OXYGEN STORAGE SILOS

Lamberts' deep commitment to the environment continues throughout the entire one million+ square foot manufacturing facility. The advanced oxygen-fueled cast glass furnace producing EcoGlass is the only one of its kind in Europe. It operates on an **ultra-clean-burning** oxygen-fuel mix, reducing nitrogen oxide (NO and NO₂) emissions by a **factor of 5** when compared to conventional air-fuel furnaces.

RECYCLED PACKAGING



Packing methods at Lamberts and Bendheim are carefully and consistently monitored to ensure **maximum utilization of recycled materials.**



A sophisticated system of electrical filters further reduces the particulates in gasses generated by the glass melting process. The resulting emissions are **substantially below Germany's already strict air quality regulations.**

Natural solutions to manufacturing needs are employed wherever possible: Lamberts' specialized cooling ponds contain grass-eating carp, eliminating the need for chemical algaecides.

ECOGLOSS & 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 “improve the quality of our buildings and their impact on the environment.”

Bendheim’s EcoGlass can help architects and designers earn LEED points for their projects in the following categories:

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.

EcoGlass’ contribution: Maximized daylighting to 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.

EcoGlass’ contribution: Approximately 60% recycled content, up to 40% post-consumer

LEED Category: Indoor Environmental Quality

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.

EcoGlass' contribution: Allows natural light and views into the building whether installed in interior walls and partitions or on the exterior

** Based on LEED® for New Construction and Major Renovations v.3, 2009.

SPECIFICATIONS

EcoGlass varieties are available in different thickness, please inquire. Listed dimensions are approximate and may vary for different patterns. For more information contact Bendheim's glass specialists: 1-800-606-7621 (East) / 1-800-900-3499 (West) / info@bendheim.com.

	Max. size	Min. size	Thickness
Standard annealed (non-safety)	70" x 128"	n/a	5/32", 3/16", 1/4", or 3/8"
Tempered* (safety)	70" x 128"	6" x 7"	5/32", 3/16", 1/4", or 3/8"
Laminated* (safety)	60" x 120"	2" x 2"	Varies based on the component glass thickness

* Bendheim safety tempered and laminated glasses meet the requirements for ANSI Z97.1, the Consumer Product Safety Commission Standard 16 CFR 1201, and ASTM C1172.

Glass surface	Organic and geometric patterns with smooth #2 surface; please refer to the product samples
Obscuration	Dense to mild levels of obscuration dependent on pattern design; please refer to the product samples
Color	Clear; EcoGlass can be supplied in combination with custom translucent color interlayers or opaque color coatings

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