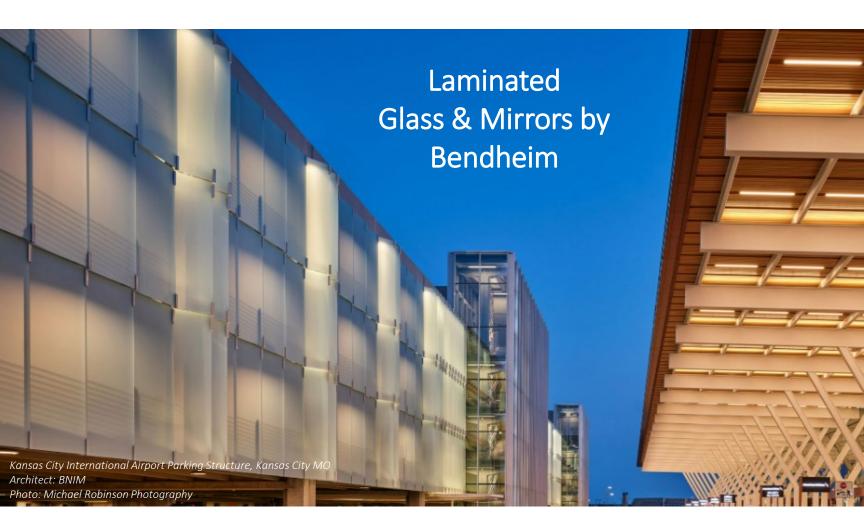


# **Build Green with Laminated Glass & Mirrors**

Bendheim certified products earn sustainability credits towards Green Certifications

### Laminated Glass & Mirrors Transparency Documentation contributions, per LEED v4/v4.1

- Third-party verified Environmental Product Declaration (EPD), valued as 1.5 products, contributes to 1 point (Option 1).
- Third-party prepared Health Product Declaration (HPD), valued as 1 product, contributes to 1 point (Option 1).



### Product description:

Laminated glass to glass is a safety glass that contains two or more glass panes permanently bonded together with a clear or colored interlayer (PVB or EVA) or with liquid resin. A safety glass, if broken, remains in place, held together by the interlayer at its core. The glass is either annealed, heat-strengthened or tempered and it may be back painted or digitally printed. Annealed glass is glass in its basic form that breaks into jagged pieces, while tempered glass is approximately four times stronger and breaks into small, dicesized pieces. Furthermore, the glass may be regular, low iron, or tinted float glass and may be etched or textured. Laminated glass to mirror are also safety glasses with a glass pane bonded to a mirror pane utilizing a clear or colored interlayer (PVB or EVA).

#### About Bendheim:

Bendheim is one of the world's foremost resources for specialty glass and glass systems, offering building and design professionals the finest decorative glass options for commercial and residential building use. Decorative laminated, etched, textured, back-painted, digitally printed, and silvered glass varieties are all primary offerings from the company, available with nearly unlimited customization options. Bendheim is also the exclusive distributor of Lamberts channel glass in North America. Channel glass is a specialty architectural glass for interior and exterior wall applications, distinguishable by its linear U-shape. The channel glass planks, standing as tall as 23 feet, contain a high percentage of recycled glass and is produced in Europe's first environmentally sensitive oxygen-fired cast glass furnace.

## Product Environmental Performance











 $Laminated\ glass\ and\ mirrors'\ contribution\ to\ Green\ Building\ Certificates.$ 

Material Sustainability Attributes	Category Impact & What it Covers	Laminated glass and mirrors' contribution to LEED v4/v4.1 & References	Other Certifications (direct and indirect support)
Environmental Product Declaration (EPD)	Environmental Impact	Materials and Resources (MR)	WELL, BREEAM, Living Building Challenge (LBC), Green Star
	An Environmental Product Declaration (EPD) is a standardized document that communicates the environmental impact of a product over its life cycle. It is based on Life Cycle Assessment (LCA) and follows international standards such as ISO 14025 and ISO 21930.	Laminated Glass and Mirrors EPD is a Product-specific Type III EPD – Products with third-party certification (Type III), including external verification and external critical review, valued as 1.5 products for credit achievement calculation and contributes to option 1 (1 point).  Environmental Product Declarations   U.S. Green Building Council	
Health Product Declaration (HPD) <u>Glass HPD</u> <u>Mirrors HPD</u>	Health & Ingredient Transparency	Materials and Resources (MR)	WELL, Living Building Challenge (LBC), Green Globes
	A Health Product Declaration (HPD) is a standardized report that discloses the material contents of a product and any associated health hazards. Channel Glass HPD threshold disclosure is 1,000 ppm (0.1%).	Laminated Glass and Mirrors HPDs are third-party prepared HPDs. They are worth 1 product for credit achievement calculation and contribute to option 1 (1 point).  Material Ingredients   U.S. Green Building Council	
Recycled Content	Material Sustainability Attribute	Materials and Resources (MR)	BREEAM, Green Star, Living Building Challenge (LBC), Green Globes
	A Recycled Content Certificate is a formal declaration issued by a manufacturer or by a third-party certifier that verifies the percentage of preand post-consumer content in the product.	Laminated Glass and Mirrors have a third-party verified Recycled Content Certificate and can contribute up to 2 possible points.  Sourcing of Raw Materials I U.S. Green Building Council	
Low-Emitting Materials	Indoor Air Quality	Indoor Environmental Quality	WELL, Living Building Challenge (LBC), BREEAM, Green Globes
	Low-Emitting Materials are products designed to minimize the release of volatile organic compounds VOCs into the indoor environment. Glass is considered an inherently non-emitting source of VOCs.	Glass is an inherently non-emitting source of VOCs and can contribute up to 3 possible points.  Low-Emitting Materials I U.S. Green Building Council	
JUST Label	Social Equity & Organizational Transparency	Social Equity within the Supply Chain	WELL, Living Building Challenge (LBC)
	The JUST Label is a voluntary disclosure tool that measures an organization's performance in six key categories: diversity, equity, safety, worker benefits, local benefits, and stewardship.	Bendheim JUST Label can contribute up to 1 possible point. Social Equity within the Supply Chain I U.S. Green Building Council	
Transparency Documentation for Hexal ite™ Honeycomb for Glass Cladding and 7-KISS™ Concealed Interior Glass Cladding System:			

Transparency Documentation for HexaLite™ Honeycomb for Glass Cladding and Z-KISS™ Concealed Interior Glass Cladding System:

HexaLite™ Environmental Product Declaration & Health Product Declaration

Z-KISS™ Environmental Product Declaration & Health Product Declaration

