

VITRUM

GLASS GROUP

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SentryGlas[®]

Architectural Safety Glass Interlayer



SENTRYGLAS[®] LAMINATED GLASS

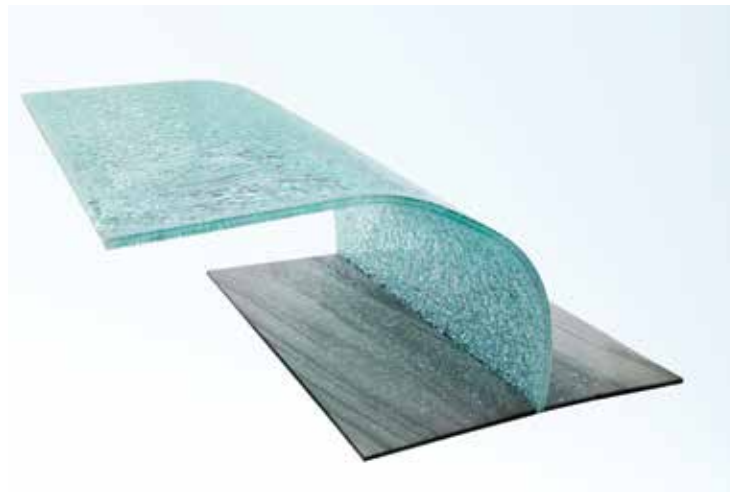
Front Photo : Glacier Skywalk, Alberta - Photo Courtesy of Brewster Travel Canada
Inside Photo : Stephen Nyran

Capabilities and product offerings are subject to change without notice. For the most up to date information please visit www.vitrum.ca

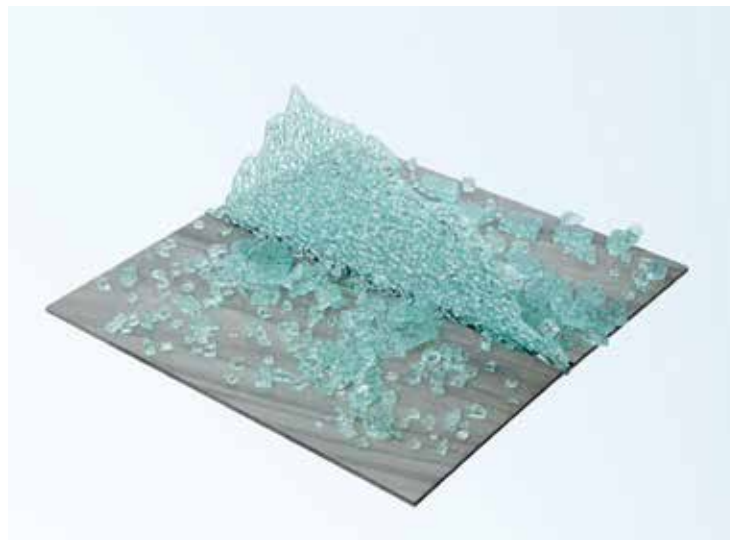
The Vitrum Glass Group strives to meet all of your glass fabrication needs. For sizes outside of these minimums and maximums please contact one of our highly knowledgeable Customer Services Representatives.



12mm Laminated Glass with 0.060 SentryGlas® Interlayer



12mm Laminated Glass with 0.060 PVB Interlayer



12mm Tempered Glass

The above photo's represent glass exposed to severe top edge impact causing full breakage, simulating broken glass in a railing application.

For glass that's more than glass

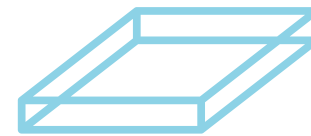
Kuraray SentryGlas® creates new glazing opportunities by changing the way glass performs and providing new design options for architects and building designers. Tests have proven that SentryGlas® has exceptional residual strength, even when both lites of glass are broken (above photo). This brings greater peace of mind to building owners and occupants in locations that experience typhoons or hurricanes and makes it possible to specify safer laminated glass for point-supported glazing systems, canopies, skylights and railings.

SentryGlas® is an ideal product for complex glazing projects that require increased strength and enhanced appearance. The benefits of SentryGlas® are not only confined to complex projects. Glazing systems that utilize SentryGlas® are typically lighter than their PVB counterparts. This can result in larger panels, reduced number of support fittings and a lighter weight support structure that enhance the visual impact. There are significant performance benefits that can be achieved when specifying SentryGlas® laminated products from Vitrum. For more information about the benefits of SentryGlas® or to obtain a sample, visit www.vitrum.ca.



SentryGlas® Interlayer

SentryGlas® Laminated Glass



Exposed Edges - SentryGlas® outperforms conventional PVB in edge stability testing, making it the ideal choice for exposed exterior edges (canopies, railing glass and point supported walls). With SentryGlas®, edge stability numbers (ESNs) continue to be zero at all known installations, including 7-year test panels exposed to severe Florida heat and humidity.



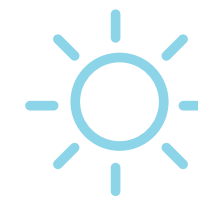
SentryGlas® is **100 times stiffer** and **5 times stronger** than traditional interlayers, allowing for thinner make ups with equal or greater strength. In stairs, flooring and overhead glazing, laminated glass made with SentryGlas® performs like engineering materials, with outstanding post-breakage resistance to creep and collapse (far left photo).



Security - SentryGlas® provides prolonged physical attack and burglary resistance with 5 times the tear strength and 100 times the rigidity of conventional PVB Interlayer's. SentryGlas® provides greater security from a range of threats than any other traditional laminated glass.



Hurricane-Resistance - Because SentryGlas® is stiffer and harder to tear than conventional laminate interlayer's it can withstand greater impacts. In post-breakage wind cycle testing, hurricane glass made with SentryGlas® lasts longer and maintains building protection long after alternative laminated safety glass has failed. SentryGlas® is the permanent protection with a view, meeting Miami Dade Country's Product Control Notice of Acceptant (NOA) for Hurricane-Resistance.



SentryGlas® is available in both a **UV transmitting** option and as a traditional **UV blocking** interlayer. Unlike most laminate interlayer technologies, Kuraray SentryGlas® requires no UV protection for lasting strength and clarity. Therefore, SentryGlas® can be made in a specialty, high-UV-transmittance sheet, extremely useful when designing controlled environments for many life species (plants, insects, fish, and reptiles). For projects of this nature, be sure to specify SentryGlas® N-UV.



Clarity - SentryGlas® structural interlayers are significantly clearer than traditional PVB interlayer's. By combining Starphire low-iron glass and SentryGlas® interlayers architects and designers can achieve a laminated glass product with near invisibility. SentryGlas® not only starts clear, it stays clear with a yellowness Index (YI) starting at 1.5 (versus 6 to 12 for conventional interlayer's) and SentryGlas® keeps it's clarity after years of service.