

Guardian DiamondGuard[®] *Bold. Brilliant. True.*



ALL GLASS STARTS OUT BEAUTIFUL.





OURS STAYS THAT WAY.™

DiamondGuard® glass is bold, brilliant and true. Bold in the face of wear and tear. Brilliant in a patented process that delivers unprecedented performance. True in its enduring value. DiamondGuard® glass is more durable and looks like new longer than ordinary glass. Its endurance in the real world redefines the possibilities for glass.



BOLD.

HIGH ENDURANCE REDEFINES
THE POSSIBILITIES OF GLASS



It's more than just glass. It is the definition of space, the articulation of vision. It's a view to the garden. A lookout to the sea. A welcoming table for friends, families, patrons. A shining reflection of quiet pride.

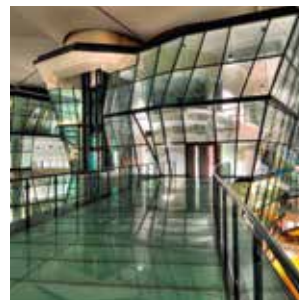
DiamondGuard's® carbon toughness withstands the scuffs and scrapes of everyday life to look like new longer. In applications often deemed too risky for ordinary glass, the high endurance of DiamondGuard® redefines possibilities.

"DiamondGuard® gives us an undeniable advantage in the marketplace, allowing us to deliver a significant product enhancement to architects and designers."

TIM CZECHOWSKI
Founder, Jockimo Inc.
Advanced Architectural Glass Fabrication



From display cases on the Ponte Vecchio to mirrors in Las Vegas hotels, the uses for DiamondGuard® glass are nearly endless. With pristine clarity, DiamondGuard® glass adds lasting value to tabletops, mirrors, display cabinets, walls, escalators, railings, public transportation vehicles and more.



For thousands of years, craftsmen and scientists have worked to improve the properties of glass. DiamondGuard® is the product of the latest breakthrough: Guardian's patented, high-energy, ion beam process that fuses carbon atoms into the surface of glass.

The result: glass with an extremely low coefficient of friction that permanently protects it from normal wear. Extensive testing at the Guardian Science & Technology Center has proven that DiamondGuard® glass provides a tougher surface than standard glass, without sacrificing clarity.

"DiamondGuard® takes the durability of glass to the next level... increasing its abrasion resistance up to tenfold."

ROLF PETRMICHL
Research Scientist
Guardian Science & Technology Center

AN ONGOING COMMITMENT TO RESEARCH AND DEVELOPMENT

The Science & Technology Center in Carleton, Michigan demonstrates a longstanding commitment to research, new technologies and value-added products. This research facility expands and enhances Guardian's global offerings in the commercial, residential, interiors, solar, electronics and automotive markets.



Guardian has conducted extensive testing that simulates the everyday abuse that glass receives – from coffee cups to key chains to cutlery. These test results measure and quantify the superior durability of DiamondGuard® glass. The photo on the left shows the results of a scratch test, with regular glass at the top and DiamondGuard® glass on the bottom.

BRILLIANT.

GLASS FUSED WITH THE
STRENGTH OF CARBON



True environmental stewardship is part of good design.

DiamondGuard® glass is a good steward in two ways. First, DiamondGuard® is far more durable than standard glass. In high-traffic environments, this means fewer costly replacements and far less waste, every single year. Next, the use of DiamondGuard® can reduce damage and increase yields in fabrication.

Depending on the application, savings in fabrication, maintenance and replacement can pay for the glass in a matter of years, or in some settings, months.



“Before DiamondGuard®, we were replacing some mirrors every six to eight weeks, and now the lifetime of those mirrors is over six months.”

ROBERT HADLEY
Treasure Island Facilities Manager
Las Vegas, Nevada

One of the world's largest manufacturers of float glass, Guardian Industries is a respected producer of building materials for commercial and residential construction. For decades, world-renowned architects have used Guardian glass to create iconic buildings, such as the Guggenheim Museum in Bilbao, Spain.





TRUE.

**GLASS ENGINEERED FOR
AUTHENTIC SUSTAINABILITY**

APPLICATIONS

“DiamondGuard® means glass can now be used in a variety of vertical and horizontal applications, in places where only dense, light-prohibitive materials had previously been considered.”



COMMERCIAL

DiamondGuard® stands up in a superior way to the scratches that typically ruin standard display cabinets, entry partitions, all forms of table/desk tops, countertops, interior walls, kiosks, escalator railings and elevator cabs. This product is not suitable for flooring applications.

RESIDENTIAL

DiamondGuard® has an obvious home on a dining room tabletop, shelf or display case, but can now be brought into the kitchen for countertops or cabinetry, the family room for a coffee table or the bedroom for screens, dividers and closet storage. This product is not suitable for flooring applications.

SPECIFICATIONS

AVAILABILITY

DiamondGuard® comes standard on clear glass, UltraMirror, DecoCristal and LamiGlass. It is available 4 mm to 15 mm, and may be applied in other thicknesses and substrates upon request. DiamondGuard® also exists in temperable version on clear glass.

Available with standard lead times in Europe.

FABRICATION

All DiamondGuard® glass and mirror can be cut, drilled, beveled, edged, notched and laminated. The temperable version of DiamondGuard® can be tempered.

CHARACTERISTICS

DiamondGuard® has an extremely low coefficient of friction, enabling it to protect the surface of glass and mirrors from wear. DiamondGuard® is virtually invisible, chemically inert and requires no special cleaning.

FOR MORE INFORMATION

For specification details and availability, please contact your local sales representative, call +352 52 11 11 or visit www.guardianinglass.com.

VALIDATION

Page 3: “Looks like new longer”: based on Guardian customer experience after switching from standard to DiamondGuard mirrors in a commercial facility serving thousands of patrons each day.

Page 8: “Far more durable”: based on Guardian Science & Technology Center abrasion testing.

Page 8: “Significantly harder and more slippery”: based on Guardian Science & Technology Center chemical and abrasion testing.



To learn more, visit guardianinglass.com.

PHOTO CREDITS

Page 3: Gina Galvão and Kátia Guedes (top left)

Page 4: © David Sundberg/Esto. Elena Kalman, Architect

Page 10: Metaform Architecture (bottom left)

Page 11: Christina Hamoui (top)

Large photographs in this brochure were created prior to the availability of DiamondGuard® glass and demonstrate the kinds of settings in which DiamondGuard® can add high value. Detail photographs are actual DiamondGuard® applications.

**GUARDIAN
INGLASS**
ADVANCED INTERIOR GLASS



Download any QR code reader using your mobile device. Scan the QR code for more information.



DiamondGuard® is a featured product from Guardian InGlass, forward-thinking interior glass solutions. To learn more about the breadth of Guardian InGlass products and services, visit guardianinglass.com, a comprehensive glass resource for interior architects and designers.

Headquartered in Auburn Hills, Michigan, Guardian Industries is a global leader in float glass, fabricated glass, fiberglass insulation and other building materials for commercial, residential, interior and automotive applications. To learn more, visit guardianinglass.com.



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