



Advanced Architectural Glass

BUILD WITH LIGHT®

SUNGUARD[®] Advanced Architectural Glass

BUILDING WITH LIGHT. That's what SunGuard Advanced Architectural Glass from Guardian is all about. Our comprehensive range of coatings, colors and design solutions allows architects to explore fully the aesthetic and functional possibilities of light — both interior and exterior — while meeting complex energy and performance requirements. Drawing on the cumulative expertise of glassmakers and production teams throughout the world, Guardian continually applies science and cutting-edge technology to the development of new SunGuard products that expand the limits of performance. This level of commitment extends locally to independent Guardian Select[®] Fabricators, who are trained and certified by Guardian to provide high-quality coated glass products. In these pages you will see the many ways Guardian helps architects build some of the world's most innovative buildings. *With light.*



70 CREMANZIE
HULL, QC, CANADA
ARCHITECT: Marcel Landry
GLAZIER: Vitrierie Vertech
FABRICATOR: Industries Cover

TO REQUEST SAMPLES
visit SunGuardGlass.com or call 1-866-GuardSG
(482-7374)

SUNGUARD

SuperNeutral® Series

NATURAL LIGHT, NEUTRAL COLOR AND SOLAR PERFORMANCE

SNX 62/27 & SNX 51/23 utilize advanced triple-silver technology to offer very low solar heat gain coefficients on clear glass - 0.27 and 0.23 respectively, with exceptional light-to-solar-gain ratios of 2.30 and 2.18. SNX 62/27 reflects neutral color, SNX 51/23 is light blue – both provide superior solar control and excellent energy performance.

SUPERNEUTRAL 68 transmits the most light and has the most neutral appearance of any SunGuard product. It can also be laminated to deliver sound attenuation, security, safety and hurricane protection.

SUPERNEUTRAL 54 combines a neutral appearance with exceptional solar-energy control to strike the perfect balance between natural daylight, glare control and energy savings. This product exceeds most energy code requirements with a SHGC of 0.28 in a standard 1" insulating glass unit.

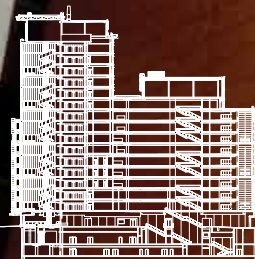
SNR 43 has a light silver-blue appearance, a super-low SHGC of 0.23 on clear float glass and a 1.88 light-to-solar gain (LSG) ratio. Slightly reflective, SNR 43 is a great choice for all types of commercial projects and provides an excellent vision to spandrel match.

SUPERNEUTRAL ON SPECIALTY GLASS, TINTS AND THE #3 SURFACE

For a stunning, ultra-clear appearance combined with superior energy efficiency, all SuperNeutral products are available with Guardian's UltraClear™ float glass. UltraClear's virtual absence of color is perfect for applications where neutral color and increased clarity are desired.

SuperNeutral products are also available on Guardian's Green, TwilightGreen®, CrystalBlue™, CrystalGray® and gray tinted float glass. Combined with SuperNeutral coatings, Guardian tints offer lower reflectance, reduced glare and improved solar control.

All SunGuard SuperNeutral coatings are designed to be used on the #2 surface of an insulating glass unit. In addition, SN 68 and SNX 62/27 can also be used on the #3 surface in conjunction with a tinted or coated outboard lite.



**CONCORDIA UNIVERSITY
MONTREAL, QC, CANADA**

ARCHITECT: KPMB Architects

GLAZIER: Oldcastle BuildingEnvelope

FABRICATOR: Trulite Glass &
Aluminum Solutions

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SUNGUARD

High Performance Series

HIGH PERFORMANCE LOW-E COATED GLASS

SunGuard High Performance Series glass delivers medium to high visible light transmission and moderate reflectivity along with maximum energy savings that meet or exceed energy code requirements. There are seven low-emissivity coatings to choose from, available on various clear and tinted substrates. Guardian also offers SunGuard IS 20, an interior surface coating to lower the U-value.

NEUTRAL 78/65 NEUTRAL 50 AG 50 AG 43
NEUTRAL 61 NEUTRAL 40 SUNGUARD IS 20

All SunGuard High Performance coatings are designed to be used on the #2 surface of an insulating glass unit, except Neutral 78/65, which can be used on the #2 or #3 surface and IS 20, which is intended for interior surface (typically #4 surface) applications.



**OFFICE PARK
VIENNA, AUSTRIA**
ARCHITECT: Holzbauer and Partners
GLAZIER: Petschenig GlasTec
FABRICATOR: Steindl Glas

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(482-7374)

SUNGUARD

Solar Control

SOLAR CONTROL REFLECTIVE COATED GLASS

SunGuard Silver 20 is a high-performance, solar-reflective coated glass product that specializes in blocking heat and delivering energy efficiency that meets or exceeds energy code requirements.

SILVER 20

Available on clear and green-tinted glass offering silver and silver-green aesthetic options. For shorter lead times and faster delivery, Silver 20 can be fabricated near the job site.

TIME WARNER CENTER
NEW YORK, NY, USA

ARCHITECT: Skidmore, Owings & Merrill LLP
GLAZIER: Glassalum
FABRICATOR: Guardian, JE Berkowitz

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visit SunGuardGlass.com or call 1-866-GuardSG
(482-7374)

Laminated Glass

SAFETY, SECURITY, SOUND AND SOLAR CONTROL

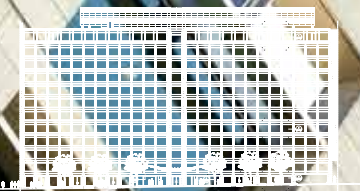
SUNGUARD

Spandrel HT

Guardian can help architects and designers achieve a desired spandrel appearance for SunGuard coatings—providing a close match to vision glass or a complementary color—by using **SUNGUARD SPANDREL HT** back painted glass. Spandrel HT is a lead-free, proprietary coating system that provides a smooth, uniform appearance after heat-treatment and has the characteristics of a ceramic frit, permanently fusing to the glass surface. To harmonize or contrast with the vision glass area and provide long lasting beauty to your architectural projects, SunGuard Spandrel HT is available in three commonly specified colors: White, Black, and Warm Gray.

We recommend that full-size mock-ups be prepared and approved to confirm the most desirable spandrel option for your specific project.

Many SunGuard products can be laminated to meet a wide variety of project requirements, including sound attenuation, safety, security, and hurricane protection. Contact Guardian for help with your project.



1700 K STREET
WASHINGTON, D.C., U.S.A.
ARCHITECT: Pei Cobb Freed & Partners
GLAZIER: Oldcastle BuildingEnvelope
FABRICATOR: TruLite Glass & Aluminum Solutions

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visit SunGuardGlass.com or call 1-866-GuardSG
(432-7374)

Fabricators & Glaziers



Guardian Select® Fabricators SunGuard Advanced Architectural Glass products are produced at multiple U.S. locations and are distributed through a network of independent Guardian Select Fabricators (shown above). These fabricators have completed a rigorous certification process administered by Guardian. Select Fabricators offer comprehensive glass fabrication for commercial projects and typically are able to cut, heat-treat, insulate, laminate, silkscreen and produce spandrel glass. In addition, some Select Fabricators can bend SunGuard coated glass for more complex designs. Select Fabricators provide glass samples for mock-ups and typically offer fast-track delivery.

Glazier Connection™ Members Guardian's Glazier Connection quickly puts you in touch with glazing contractors that are experienced in installing Guardian high performance coated glass for commercial applications, including all types of facades: curtainwalls, windowwalls, punched openings and commercial windows, spandrel glass, storefronts, and much more. Guardian Glazier Connection members work seamlessly with our Guardian Select Fabricator network of glass fabrication companies to provide you with quick turnaround and expertise, so your project can be completed on time.

To locate a Guardian Select Fabricator or Glazier Connection member near your project site, visit www.SunGuardGlass.com.

GUARDIAN GLASS

INNOVATION AND TECHNICAL SUPPORT

USGBC LEED Certification Using SunGuard SuperNeutral, SunGuard High Performance and SunGuard Solar Series glass products can be an important part of obtaining LEED certification in five credit categories: Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, Innovation and Design Process, and Regional Priority. For a copy of our LEED Brochure, call 1-866-GuardSG (482-7374) or visit www.SunGuardGlass.com.

Web Resources at www.SunGuardGlass.com Guardian provides several easy-to-use online tools and resources to help architects specify SunGuard products on our web site at www.SunGuardGlass.com, including: Glass Analytics, a comprehensive suite of tools comprised of a Performance Calculator, BIM Generator, Building Energy Calculator and Glass Visualizer that offers architects and other project specifiers comprehensive tools to evaluate commercial glazing options and their impact on energy use and design; a smartphone app that allows interaction with hundreds of projects worldwide; a searchable commercial building project database; a SunGuard performance comparison tool; a Guardian Select Fabricator locator and a Glazier Connection member locator.

3-Part Specifications Guardian's SunGuard specifications in standard CSI 3-part format are available from your Guardian Architectural Design Manager (ADM) and at www.SunGuardGlass.com. ARCOM, the exclusive publisher of AIA (the American Institute of Architects) MASTERSPEC®, has authorized Guardian to offer a licensed version of PRODUCT MASTERSPEC on the SunGuard Web site and, for AIA members, on the AIA web site. In addition, you can find SunGuard specifications online at BSD SpecLink and ARCAT.

AIA/CES Presentations Guardian Glass participates in the American Institute of Architects Continuing Education System (AIA/CES) by providing seminar presentations, some of which qualify for Health, Safety and Welfare credits. Whether you are interested in basic commercial glass knowledge, glass from an energy conservation perspective or current applications for laminated glass, we can provide you with helpful information regarding design using glass. Call 1-866-GuardSG (482-7374) or your local SunGuard Architectural Design Manager to arrange a time and place for a seminar presentation. In addition, a number of these presentations can be accessed on the McGraw-Hill Construction Continuing Education Center online.

Technical Support Hotline: 1-866-GuardSG (482-7374)

Technical support is always available from your Architectural Design Manager (ADM) and/or Regional Technical Advisor (RTA). For technical or product information, please call our Technical Support Hotline to find the technical specialist in your area. Some areas where we can help are:

- solar, thermal or acoustical performance of coated glass
- computer-based wind load and thermal stress analysis program
- product availability and specification information
- architectural glass sample boxes and 12" x 12" samples

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(482-7374)



See what's possible™

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Please file in 088100 Glass.

HEARST CORPORATION
NEW YORK, NY, USA

ARCHITECT: Foster & Partners

GLAZIER: Permasteelisa

FABRICATOR: Zadra

GLASS: Guardian SunGuard
SuperNeutral Series