Guardian® SunGuard®
Solar Plus

GLASS THAT COMES WITH MANY PLUSSES

The best performing monolithic glass that turns your ideas into reality

GUJARAT GUARDIAN LIMITED

GUARDIAN
SUNGUARD®

Guardian® SunGuard®
Solar Plus

Guardian® SunGuard® Solar Plus Glass Series outperforms other conventional solar control monolithic glasses in its category. Its best-in-class solar protection and thermal control let you design various facades you envision. Guardian® SunGuard® Solar Plus Glass Series is a truly exemplary choice for your projects.
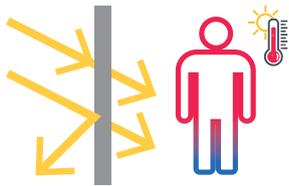
Conventional Solar Control Monolithic Glass

Limited solar protection leads to limited savings on energy bills
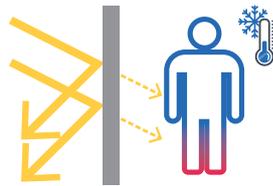
Guardian® SunGuard® Solar Plus Glass Series Monolithic Glass

Higher solar protection plus low emissivity leads to saving more on energy bills

ALWAYS BE PLUS ON

Energy Efficiency
Best U-value in monolithic category
Enhanced occupant comfort
Shorter payback period

- Higher solar protection along with low emissivity

Beautiful Range of Vivid Colours
Superior shades that create the design you envision
Optimum external reflection

- Internal reflection less than clear glass

Colour Rendering Index
Light falling inside through glass is natural
that shows everything inside in its true colour

- Clear and natural inside-out view because of coating on a clear substrate

Flexibility in Processing
Used as annealed*
Heat treated, laminated on surface #1 & #2
Ceramic fritted, convex bent
Achieves better vision-to-spandrel combination

- Dual advantage – can be used as monolithic and a DGU
- Seamless aesthetics across all thicknesses

Sustainability
Meets India's green building requirements

- Helps improve energy efficiency of buildings

Range
Shorter lead time
Manufactured in India
Thickness range – 4mm to 12mm
Sizes - Up to 3660mm x 2550mm

- Wide range of selection on aesthetics and performance

* Except Solar Plus Blue 27, Green 27, Grey 27 and Neutral 27

PERFORMANCE SPECIFICATIONS OF GUARDIAN® SUNGUARD® SOLAR PLUS

Product Name	Visible Light			Colour Rendering Index Ra(D65)	American Standards (NFRC 2010)				Light to Solar Gain
					Summer				
	Transmission %	Reflection Outside %	Reflection Inside %		U-Value Daytime W/(m2K)	Shading Coefficient	SHGC	Relative Heat Gain W/ (m2)	
Guardian® SunGuard® Solar Plus - 6mm					Solar Plus Coating on #2 Surface				
Neutral 27	27	14	9	95	3.0	0.33	0.28	231	1.0
Neutral 45	44	16	6	90	3.2	0.41	0.35	286	1.2
Clear 65	67	10	4	94	3.8	0.63	0.54	428	1.2
Blue 27	27	12	5	93	3.0	0.33	0.28	234	1.0
Tru Blue 40	44	10	3	88	3.2	0.45	0.38	307	1.2
Light Blue 50	51	16	6	94	3.5	0.49	0.42	338	1.2
Green 27	27	13	4	87	2.9	0.33	0.28	232	1.0
Sea Green 35	38	19	5	97	3.2	0.41	0.35	284	1.1
Green 50	54	16	4	93	3.5	0.52	0.44	353	1.2
Grey 27	27	11	4	94	3.0	0.33	0.28	234	1.0
Silver Grey 35	39	24	3	91	3.2	0.37	0.32	258	1.2
Guardian® SunGuard® Solar Plus 6mm - 12mm airgap — 6mm clear					Solar Plus Coating on #2 Surface				
Neutral 27	24	15	15	94	2.0	0.24	0.21	167	1.1
Neutral 45	39	17	13	88	2.1	0.33	0.29	223	1.3
Clear 65	59	14	11	92	2.3	0.52	0.46	348	1.3
Blue 27	24	13	12	91	2.0	0.24	0.21	167	1.1
Tru Blue 40	39	12	11	86	2.1	0.34	0.30	233	1.3
Light Blue 50	45	18	13	92	2.2	0.40	0.35	268	1.3
Green 27	24	14	12	86	2.0	0.24	0.21	164	1.1
Sea Green 35	34	20	12	95	2.1	0.32	0.28	216	1.2
Green 50	48	19	11	91	2.2	0.42	0.37	283	1.3
Grey 27	24	11	11	91	2.0	0.24	0.21	167	1.1
Silver Grey 35	34	25	11	89	2.1	0.29	0.25	199	1.3

Shades — Notes: — Guardian® reserves the right to change product performance characteristics without notice or obligation. — The performance values shown are nominal and subject to variations due to manufacturing tolerances. — Calculations & terms used in this performance numbers are based on NFRC 2010. The performance value shown above represent NOMINAL VALUES for the center of glass with no spacer system or framing. — May require heat strengthening or tempering to resist potential thermal stresses. Please contact Guardian® for assistance. — A slight shift in visible light reflectance or transmission may be noticed are heat treatment. — The Guardian® SunGuard® Solar Plus products i.e. Blue 27, Green 27, Grey 27 and Neutral 27 need to be heat treated before using in Single Glazed Unit or in Double Glazed Unit. Annealed and Heat treated not to be mixed on same façade, we recommend mockup to be done for aesthetic acceptance.

DISCLAIMER:

This publication is intended to provide a general description of Guardian® SunGuard® products. Guardian® SunGuard® products are covered by specific limited warranties available upon request from Guardian® and nothing in this publication is intended to modify responsible for determining the suitability of any product or fabrication configurations and compliance with all relevant laws, regulations, standards, codes or other requirements for installation. Guardian® SunGuard® processors should consult Guardian®'s Processing Guidelines for specific instructions on how to successfully handle, store, treat, process, use and install Guardian® SunGuard®. The Processing Guidelines can be obtained directly from Guardian®.

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