

HIGH PERFORMANCE GLASS

BY GLASPRO

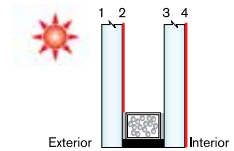


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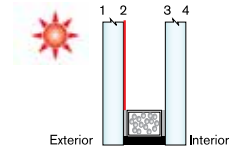
GLASPRO[™]

HIGH PERFORMANCE INSULATED GLASS



Guardian SunGuard® – Insulating Glass Data with IS20 (#4)

Product	Substrate Outboard-Inboard	Appearance	Visible Light				UV	SHGC	U-Value	Light to Solar Gain	SHGC	U-Value	Light to Solar Gain
			Transmittance %	Reflectance		Color Rendering Index	Transmittance %						
				Out %	In %								
Coating #2 surface								Argon			Air		
SNX 62/27	Guardian UltraClear	Ultra Clear	62	12	13	94.9	8	0.26	0.20	2.43	0.26	0.23	2.41
	Clear-Clear	Clear	60	12	13	92.9	6	0.25	0.20	2.37	0.26	0.23	2.33
SNX 51/23	Guardian UltraClear	Neutral Blue	51	14	15	94.2	12	0.22	0.20	1.34	0.22	0.23	2.30
	Clear-Clear	Neutral Blue	49	14	14	91.9	10	0.22	0.20	2.27	0.22	0.23	2.22
SN 68	Guardian UltraClear	Ultra Clear	69	12	13	97.8	37	0.38	0.20	1.81	0.38	0.24	1.80
	Clear-Clear	Clear	66	12	13	95.4	29	0.36	0.20	1.83	0.36	0.24	1.82
SN 54	Clear-Clear	Clear	53	15	20	96.2	15	0.27	0.20	1.96	0.27	0.24	1.93
SNR 43	Clear-Clear	Light Silver	42	28	15	91.1	17	0.21	0.20	1.96	0.22	0.23	1.92



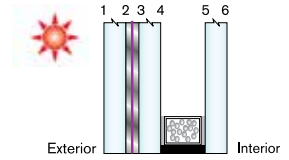
Guardian SunGuard® – Insulating Glass Data

Product	Substrate Outboard-Inboard	Appearance	Visible Light				UV	SHGC	U-Value	Light to Solar Gain	SHGC	U-Value	Light to Solar Gain
			Transmittance %	Reflectance		Color Rendering Index	Transmittance %						
				Out %	In %								
Coating #2 surface – except Neutral 78/65 on #3 surface								Argon			Air		
SNX 62/27	Guardian UltraClear®	Ultra Clear	64	11	13	95.0	8	0.26	0.24	2.44	0.27	0.29	2.40
	Clear-Clear	Clear	62	11	12	93.0	6	0.26	0.24	2.36	0.27	0.29	2.31
	CrystalGray-Clear	Light Gray	44	8	11	89.8	3	0.21	0.24	2.08	0.22	0.29	1.98
	CrystalBlue-Clear	Blue	40	7	11	88.8	4	0.20	0.24	2.01	0.21	0.29	1.91
SNX 51/23	Guardian UltraClear	Neutral Blue	53	14	14	94.2	13	0.23	0.24	2.34	0.23	0.29	2.27
	Clear-Clear	Neutral Blue	51	14	14	91.9	10	0.23	0.24	2.26	0.23	0.29	2.18
	CrystalGray-Clear	Light Gray	36	9	13	88.8	6	0.18	0.24	1.96	0.20	0.29	1.85
	CrystalBlue-Clear	Blue	33	8	13	87.7	7	0.17	0.24	1.88	0.19	0.29	1.77
SN 68	Guardian UltraClear	Ultra Clear	71	11	13	97.9	40	0.39	.245	1.82	0.39	0.29	1.80
	Clear-Clear	Clear	68	11	12	95.4	30	0.37	.245	1.82	0.38	0.29	1.80
SN 54	Clear-Clear	Clear	54	14	20	96.3	16	0.28	0.24	1.95	0.28	0.29	1.91
SNR 43	Clear-Clear	Light Silver	43	28	14	91.1	17	0.22	0.24	1.94	0.23	0.29	1.89
NU 78/65 (#3)	Guardian UltraClear	Ultra Clear	81	13	13	99.5	54	0.73	0.27	1.12	0.72	0.31	1.12
	Clear-Clear	Clear	78	13	13	96.9	39	0.66	0.27	1.18	0.66	0.31	1.18

- All insulating glass configurations are 6 mm/12.7 mm spacer/6 mm:
 - Configurations with Guardian UltraClear® low-iron glass contain Guardian UltraClear outboard & inboard.
 - All other insulating glass configurations contain substrates as indicated.
- The performance values shown are nominal and subject to variations due to manufacturing tolerances.
- Guardian performance data are calculated for center-of-glass only in accordance with LBNL Window 7 program.
- SNR 35, SNR 43, SNR 50 and IS 20 require heat-treatment.
- U-value calculated is winter nighttime.
- A slight shift in visible light reflectance or transmission may be noticed after heat-treatment.
- GlasPro reserves the right to change product performance characteristics without notice or obligation.

SUNGUARD®
Advanced Architectural Glass

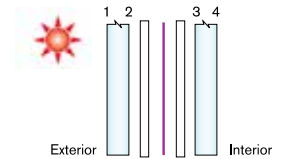
HIGH PERFORMANCE LAMINATED GLASS WITH BIRD SAFE LAMINATED



High Performance Laminated Glass

Product	Outboard - Inboard Substrate	Appearance	Transmittance			Reflectance			U-Value Winter Nighttime		Relative Heat Gain	Solar Heat Gain Co-efficient	Light to Solar Gain (LSG)
			Visible Light %	Ultra-violet %	Solar Energy %	Visible Light Out %	Visible Light In %	Solar Energy Out %	Air	Argon			
SunGuard SuperNeutral Series													
SN 68	Clear - Clr/Clr	Clear	67	0	29	11	11	34	0.94	0.85	103	0.40	1.69
	CrystalGray/Clr	Light Gray	48	0	21	8	10	17	0.94	0.85	100	0.38	1.25
	CrystalBlue/Clr	Blue	43	0	20	7	9	22	0.94	0.85	96	0.36	1.19

Other combinations of float glass and coatings may be available. Please contact GlasPro for assistance. When SunGuard® coatings are laminated facing the PVB, there will be a noticeable color change when compared to standard insulated applications. GlasPro recommends a full size mock-up be approved.



High Performance Insulated Glass with Bird Safe Laminated

Product	Outboard - Inboard Substrate	Appearance	Transmittance			Reflectance			U-Value Winter Nighttime		Relative Heat Gain	Solar Heat Gain Co-efficient	Light to Solar Gain (LSG)
			Visible Light %	Ultra-violet %	Solar Energy %	Visible Light Out %	Visible Light In %	Solar Energy Out %	Air	Argon			
SunGuard SuperNeutral Series													
SNX 62/27 with GlasPro Bird Safe	UltraClear - UC/UC	UltraClear	63	0	23	11	12	51	0.28	0.23	64	0.26	2.37
	Clear - Clr/Clr	Clear	59	0	21	11	12	39	0.28	0.23	64	0.26	2.25
SNX 51/23 with GlasPro Bird Safe	UltraClear - UC/UC	Light Blue	52	0	19	14	14	46	0.29	0.24	56	0.23	2.26
	Clear - Clr/Clr	Light Blue	49	0	17	14	14	36	0.29	0.24	56	0.23	2.14
SN 68 with GlasPro Bird Safe	UltraClear - UC/UC	UltraClear	69	0	34	11	12	42	0.28	0.24	92	0.39	1.79
	Clear - Clr/Clr	Clear	66	0	30	11	12	33	0.28	0.24	89	0.37	1.77

FABRICATION CERTIFICATIONS



The information contained in this brochure, other GlasPro publications and the GlasPro Website is subject to change and does not constitute a warranty of merchantability or fitness for any particular purpose. Actual performance may vary in specific applications.

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