



SunGuard[®] Advanced Architectural Glass

PICTURED ABOVE:
Richardson Innovation Centre
SunGuard[®] SNX 62/27 on UltraClear[®]



**GUARDIAN[®]
GLASS**
See what's possible[™]

Explore and Express Your Vision

The comprehensive range of SunGuard® architectural glass coatings, colors and design solutions allows architects to explore fully the aesthetic and functional possibilities of light while helping to meet complex energy and performance requirements. Drawing on the cumulative expertise of coating experts 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 aesthetics and performance.

- SNX 62/27
- SNE 50/25
- SNR 43
- SN 68
- Neutral 78/65
- SNX 51/23
- SNR 50
- SNR 35
- SN 54
- IS 20

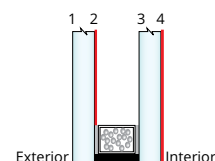
Demanding Performance

Whether your commercial glass project is located in a hot, sunny climate, a cold climate or somewhere in-between, Guardian Glass has a product to help meet the environmental demands. From spectrally-selective coatings with high visible light transmission to varying levels of reflectivity, SunGuard Advanced Architectural Glass delivers maximum energy savings that help meet or exceed energy code requirements.



Photo: Felipe Carrasco

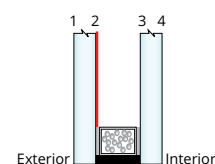
SunGuard – Insulating Glass Data with IS 20(#4)



Product	Substrate Outboard-Inboard	Appearance	Visible Light				UV	SHGC	U-Value	Light to Solar Gain	SHGC	U-Value	Light to Solar Gain
			Trans mittance %	Reflectance		Color Rendering Index	Trans mittance %						
				Out %	In %								
Coating #2 surface with IS 20 #4 surface													
SNX 62/27	Guardian UltraClear® Clear-Clear	Ultra Clear Clear	62	12	13	94.9	8	0.26	0.20	2.43	0.26	0.23	2.41
			60	12	13	92.9	6	0.25	0.20	2.37	0.26	0.23	2.33
SNX 51/23	Guardian UltraClear Clear-Clear	Neutral Blue Neutral Blue	51	14	15	94.2	12	0.22	0.20	2.34	0.22	0.23	2.30
			49	14	14	91.9	10	0.22	0.20	2.27	0.22	0.23	2.22
SNE 50/25	Guardian UltraClear Clear-Clear	Blue-Silver Blue-Silver	48	19	18	91.3	21	0.24	0.20	1.99	0.25	0.23	1.97
			47	19	18	88.9	16	0.24	0.20	1.96	0.24	0.23	1.93
SN 68	Guardian UltraClear Clear-Clear	Ultra Clear Clear	69	12	13	97.8	37	0.38	0.20	1.81	0.38	0.24	1.80
			66	12	13	95.4	29	0.36	0.20	1.83	0.36	0.24	1.82
SN 54	Guardian UltraClear Clear-Clear	Ultra Clear Clear	55	15	21	97.6	20	0.28	0.20	1.98	0.28	0.24	1.96
			53	15	20	96.2	15	0.27	0.20	1.96	0.27	0.24	1.93
SNR 50	Guardian UltraClear Clear-Clear	Light Silver Light Silver	48	27	17	93.8	24	0.24	0.20	1.99	0.25	0.24	1.97
			47	26	17	91.3	18	0.24	0.20	1.97	0.24	0.24	1.94
SNR 43	Guardian UltraClear Clear-Clear	Light Silver Light Silver	43	29	15	93.5	22	0.22	0.20	1.99	0.22	0.23	1.97
			42	28	15	91.1	17	0.21	0.20	1.96	0.22	0.23	1.92
SNR 35	Guardian UltraClear Clear-Clear	Light Silver Light Silver	33	36	20	92.1	14	0.16	0.20	2.10	0.16	0.24	2.06
			32	35	19	89.7	11	0.16	0.20	2.02	0.16	0.24	1.97

Find table notes on following page.

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
			Trans mittance %	Reflectance		Color Rendering Index	Trans mittance %						
				Out %	In %								
Coating #2 surface – except Neutral 78/65 on #3 surface													
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
	Green-Clear	Green	52	9	12	85.1	3	0.23	0.24	2.25	0.24	0.29	2.13
	CrystalGray-Clear	Light Gray	44	8	11	89.8	3	0.21	0.24	2.08	0.22	0.29	1.98
	Gray-Clear	Gray	31	6	11	90.7	3	0.17	0.24	1.83	0.18	0.29	1.71
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
	Green-Clear	Blue-Green	43	11	13	84.1	5	0.20	0.24	2.12	0.21	0.29	1.99
	CrystalGray-Clear	Light Gray	36	9	13	88.8	6	0.18	0.24	1.96	0.20	0.29	1.85
	Gray-Clear	Gray	26	7	13	89.8	5	0.15	0.24	1.70	0.16	0.29	1.57
SNE 50/25	Guardian UltraClear	Blue-Silver	50	19	18	91.4	22	0.25	0.24	1.99	0.25	0.29	1.96
	Clear-Clear	Blue-Silver	48	19	18	88.9	17	0.25	0.24	1.95	0.25	0.29	1.90
	CrystalGray-Clear	Blue-Gray	34	12	17	86.0	9	0.20	0.24	1.71	0.21	0.29	1.62
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
	Green-Clear	Green	57	9	12	86.9	13	0.29	.245	1.99	0.30	0.29	1.92
	CrystalGray-Clear	Light Gray	48	8	11	92.1	17	0.29	.245	1.69	0.30	0.29	1.64
	Gray-Clear	Gray	34	6	11	93.2	14	0.24	.245	1.43	0.25	0.29	1.37
SN 54	Guardian UltraClear	Ultra Clear	56	15	21	97.6	21	0.28	0.24	1.98	0.29	0.29	1.95
	Clear-Clear	Clear	54	14	20	96.3	16	0.28	0.24	1.95	0.28	0.29	1.91
	Green-Clear	Green	46	11	19	88.2	7	0.23	0.24	1.99	0.24	0.29	1.89
	CrystalGray-Clear	Light Gray	39	9	19	93.5	9	0.22	0.24	1.75	0.23	0.29	1.67
	Gray-Clear	Gray	27	7	19	94.3	7	0.18	0.24	1.49	0.20	0.29	1.40
SNR 50	Guardian UltraClear	Light Silver	50	27	17	93.8	25	0.25	0.24	2.00	0.25	0.29	1.96
	Clear-Clear	Light Silver	48	26	17	91.3	19	0.25	0.24	1.96	0.25	0.29	1.91
	CrystalGray-Clear	Silver Gray	34	15	16	88.2	10	0.20	0.24	1.71	0.21	0.29	1.63
SNR 43	Guardian UltraClear	Light Silver	45	28	14	93.5	24	0.22	0.24	1.99	0.23	0.29	1.96
	Clear-Clear	Light Silver	43	28	14	91.1	17	0.22	0.24	1.94	0.23	0.29	1.89
	Green-Clear	Green	36	21	14	83.0	8	0.19	0.24	1.89	0.20	0.29	1.78
	CrystalGray-Clear	Silver Gray	31	16	14	87.9	9	0.18	0.24	1.68	0.19	0.29	1.59
	Gray-Clear	Silver Gray	22	11	13	89.2	8	0.15	0.24	1.41	0.17	0.29	1.31
SNR 35	Guardian UltraClear	Light Silver	34	36	20	92.1	15	0.16	0.24	2.09	0.17	0.29	2.03
	Clear-Clear	Light Silver	33	35	19	89.8	11	0.17	0.24	2.00	0.17	0.29	1.92
	Green-Clear	Green	28	26	19	81.9	10	0.15	0.24	1.80	0.17	0.29	1.67
	CrystalGray-Clear	Silver Gray	23	20	19	86.7	6	0.14	0.24	1.63	0.15	0.29	1.51

- 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.

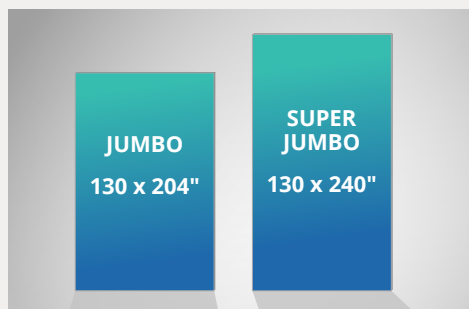
- SNR 35, SNR 43, SNR 50 and IS 20 require heat-treatment.
- U-value calculated is winter nighttime.
- A slight shift in visible light reflectance or transmission may be noticed after heat-treatment.
- Guardian reserves the right to change product performance characteristics without notice or obligation.



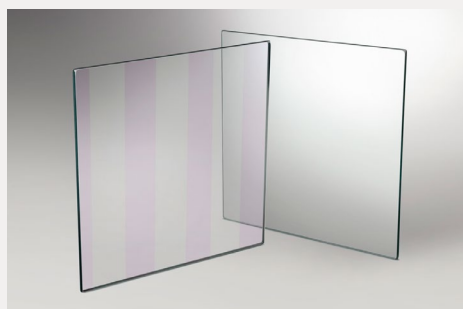
Design Tools

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