

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 meet complex energy and performance requirements. Drawing on the cumulative expertise of coating experts and production teams throughout the world, Guardian Glass continually applies science and cutting-edge technology to the development of new SunGuard products that expand the limits of aesthetics and performance.

- SNX 70+
- SNX 62/27
- SNX 51/23
- SNX 60+
- SNE 50
- SN 68
- SNR 50
- SNR 35
- SNR 43
- Neutral 78/65
- IS 20

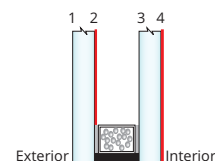
Demanding Performance

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: Michael Elkan

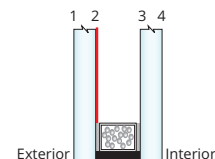
SunGuard – Insulating Glass Data with IS 20 (#4)



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 70+	Guardian UltraClear™ Clear-Clear	Ultra clear Clear	66	15	16	94.5	15	0.27	0.20	2.46	0.27	0.23	2.44
			64	15	16	92.2	12	0.27	0.20	2.39	0.27	0.23	2.37
SNX 60+	Guardian UltraClear Clear-Clear	Ultra clear Clear	60	15	16	92.7	10	0.24	0.20	2.56	0.24	0.23	2.54
			58	14	16	90.5	8	0.24	0.20	2.47	0.24	0.23	2.43
SNX 62/27	Guardian UltraClear Clear-Clear	Neutral blue Neutral blue	62	12	13	94.9	8	0.26	0.20	2.43	0.26	0.23	2.41
			60	11	13	92.9	6	0.25	0.20	2.37	0.26	0.23	2.33
SNX 51/23	Guardian UltraClear Clear-Clear	Blue-silver Blue-silver	51	14	15	94.2	12	0.22	0.20	2.34	0.22	0.23	2.30
			50	14	14	91.9	10	0.22	0.20	2.27	0.22	0.23	2.22
SNE 50	Guardian UltraClear Clear-Clear	Ultra clear Clear	49	19	14	92.9	22	0.24	0.20	1.99	0.25	0.23	1.96
			47	18	14	90.6	16	0.24	0.20	1.97	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	11	13	95.4	29	0.36	0.20	1.83	0.36	0.24	1.81
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	16	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	89.8	10	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 70+	Guardian UltraClear™	Ultra clear	68	14	16	94.5	16	0.27	0.24	2.47	0.28	0.28	2.45
	Guardian CrystalClear™	Very clear	67	14	15	93.9	14	0.27	0.24	2.44	0.28	0.28	2.41
	Clear-Clear	Clear	66	14	15	92.3	13	0.27	0.24	2.39	0.28	0.28	2.35
	CrystalGray™-Clear	Light gray	47	9	14	89.1	7	0.22	0.24	2.12	0.23	0.28	2.03
SNX 60+	Guardian UltraClear	Ultra clear	62	14	15	92.7	11	0.24	0.24	2.57	0.25	0.29	2.53
	Guardian CrystalClear	Very Clear	61	14	15	92.1	9	0.24	0.24	2.53	0.25	0.29	2.49
	Clear-Clear	Clear	60	14	15	90.5	8	0.24	0.24	2.46	0.25	0.29	2.41
	Green-Clear	Green	50	11	14	82.9	4	0.22	0.24	2.27	0.23	0.29	2.16
	CrystalGray-Clear	Light gray	43	9	14	87.4	5	0.20	0.24	2.14	0.21	0.29	2.04
	Gray-Clear	Gray	30	7	14	88.2	4	0.16	0.24	1.89	0.17	0.29	1.77
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
	Guardian CrystalClear	Very clear	63	11	12	94.5	7	0.26	0.24	2.41	0.27	0.29	2.37
	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	2.24	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
	Guardian CrystalClear	Neutral blue	52	14	14	93.6	12	0.23	0.24	2.30	0.23	0.29	2.24
	Clear-Clear	Neutral blue	51	14	14	92.0	10	0.23	0.24	2.25	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	1.84
	Gray-Clear	Gray	26	7	13	89.8	5	0.15	0.24	1.70	0.16	0.29	1.57
SNE 50	Guardian UltraClear	Blue-silver	50	18	14	93.0	23	0.25	0.24	1.99	0.26	0.29	1.95
	Guardian CrystalClear	Blue-silver	49	18	13	92.2	20	0.25	0.24	1.98	0.26	0.29	1.93
	Clear-Clear	Blue-silver	48	18	13	90.6	17	0.25	0.24	1.96	0.25	0.29	1.90
	Green-Clear	Blue-green	41	14	13	82.5	7	0.21	0.24	1.95	0.22	0.29	1.84
	CrystalGray-Clear	Blue-gray	34	11	13	87.4	9	0.20	0.24	1.73	0.21	0.29	1.64
SN 68	Guardian UltraClear	Ultra clear	71	11	13	97.9	40	0.39	.245	1.82	0.39	0.29	1.80
	Guardian CrystalClear	Very clear	70	11	12	97.2	35	0.38	.245	1.81	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	1.91
	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
SNR 50	Guardian UltraClear	Light silver	50	27	17	93.8	25	0.25	0.24	2.00	0.25	0.29	1.96
	Guardian CrystalClear	Light silver	49	26	17	93.0	22	0.25	0.24	1.98	0.25	0.29	1.94
	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	5	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
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 UltraClear outboard and inboard.
- Configurations with Guardian CrystalClear glass contain CrystalClear outboard and inboard.
- All other insulating glass configurations contain substrates as indicated.
- The performance values shown are nominal and subject to variations due to mfg tolerances.
- Guardian performance data are calculated for center-of-glass only in accordance with LBNL Window 7 program.

- SNR 35, SNR 43, SNR 50, SNE 50, SNX 70+, SNX 60+ 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.