



PRECISION
GLASS INDUSTRIES

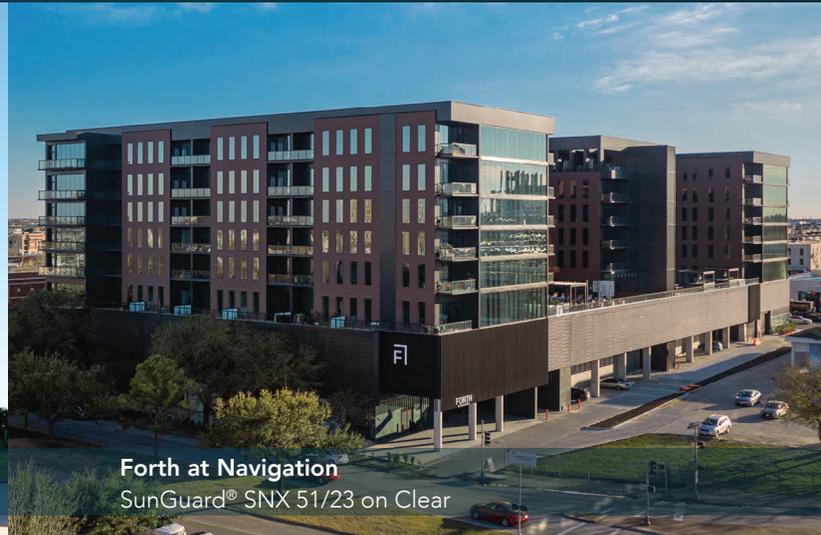


The University of Houston College of Medicine
SunGuard® SNX 51/23 on Clear

Guardian SunGuard® Advanced Architectural Glass



The Third Coast Bank
SunGuard® SN68 on Clear



Forth at Navigation
SunGuard® SNX 51/23 on Clear



**GUARDIAN®
GLASS**

See what's possible™

Guardian SunGuard® Advanced Architectural Glass Comparison Chart

Product	Vitro/PPG Equivalent Tint/ Substrate	Guardian Substrate (Clear Inboard)	Appearance	Visible Light			UV Transmittance %	SHGC	U-Value	Light to Solar Gain	SHGC	U-Value	Light to Solar Gain	
				Transmittance Gain %	Reflectance									Color Rendering Index
					Out %	In %	Argon			Air				
Coating #2 Surface														
SNX 70+ SB 72 Solarban 72	Starphire	Guardian UltraClear	Ultra clear	68	14	16	94.5	16	0.27	0.24	2.47	0.28	0.28	2.45
	Acuity	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
	SolarGray	CrystalGrayClear	Light gray	47	9	14	89.1	7	0.22	0.24	2.12	0.23	0.28	2.03
SNX 60+ SB 70 Solarban 70	Starphire	Guardian UltraClear	Ultra clear	62	14	15	92.7	11	0.24	0.24	2.57	0.25	0.29	2.53
	Acuity	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
	OptiGray	CrystalGray	Light gray	43	9	14	87.4	5	0.20	0.24	2.14	0.21	0.29	2.04
	SolarGray	Gray	Gray	30	7	14	88.2	4	0.16	0.24	1.89	0.17	0.29	1.77
SNX 51/23 SB 90 Solarban 90	Starphire	Guardian UltraClear	Ultra Clear	53	14	14	94.2	13	0.23	0.24	2.34	0.23	0.29	2.27
	Clear	Clear	Clear	51	14	14	91.9	10	0.23	0.24	2.26	0.23	0.29	2.18
	Solexia/Atlantica	Green	Green	43	11	13	84.1	5	0.20	0.24	2.12	0.21	0.29	1.99
	OptiGray	CrystalGray	Light Gray	36	9	13	88.8	6	0.18	0.24	1.96	0.20	0.29	1.85
	SolarGray	Gray	Gray	26	7	13	89.8	5	0.15	0.24	1.70	0.16	0.29	1.57
SNE 50 SB 67 Solarban 67	Starphire	Guardian UltraClear	Blue-silver	50	18	14	93.0	23	0.25	0.24	1.99	0.26	0.29	1.95
	Acuity	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
	Solexia/Atlantica	Green	Blue-green	41	14	13	82.5	7	0.21	0.24	1.95	0.22	0.29	1.84
	OptiGray	CrystalGray	Blue-gray	34	11	13	87.4	9	0.20	0.24	1.73	0.21	0.29	1.64
SN 68 SB 60 Solarban 60	Starphire	Guardian UltraClear	Ultra Clear	71	11	13	97.9	40	0.39	0.245	1.82	0.39	0.29	1.80
	Clear	Clear	Clear	68	11	12	95.4	30	0.37	0.245	1.82	0.38	0.29	1.80
	Solexia/Atlantica	Green	Green	57	9	12	86.9	13	0.29	0.245	1.99	0.30	0.29	1.92
	OptiGray	CrystalGray	Light Gray	48	8	11	92.1	17	0.29	0.245	1.69	0.30	0.29	1.64
	SolarGray	Gray	Gray	34	6	11	93.2	14	0.24	0.245	1.43	0.25	0.29	1.37
SNR 50 R77	Starphire	Guardian UltraClear	Ultra Clear	50	27	17	93.8	25	0.25	0.24	2.00	0.25	0.29	1.96
	Clear	Clear	Clear	48	26	17	91.3	19	0.25	0.24	1.96	0.25	0.29	1.91
	OptiGray	CrystalGray	Light Gray	34	15	16	88.2	10	0.20	0.24	1.71	0.21	0.29	1.63
SNR 43 R100	Starphire	Guardian UltraClear	Ultra Clear	45	28	14	93.5	24	0.22	0.24	1.99	0.23	0.29	1.96
	Clear	Clear	Clear	43	28	14	91.1	17	0.22	0.24	1.94	0.23	0.29	1.89
	Solexia/Atlantica	Green	Green	36	21	14	83.0	8	0.19	0.24	1.89	0.20	0.29	1.78
	OptiGray	CrystalGray	Light Gray	31	16	14	87.9	9	0.18	0.24	1.68	0.19	0.29	1.59
	SolarGray	Gray	Gray	22	11	13	89.2	8	0.15	0.24	1.41	0.17	0.29	1.31
SNR 35 R100	Starphire	Guardian UltraClear	Ultra Clear	34	36	20	92.1	15	0.16	0.24	2.09	0.17	0.29	2.03
	Clear	Clear	Clear	33	35	19	89.8	11	0.17	0.24	2.00	0.17	0.29	1.92
	Solexia/Atlantica	Green	Green	28	26	19	81.9	10	0.15	0.24	1.80	0.17	0.29	1.67
	OptiGray	CrystalGray	Light Gray	23	20	19	86.7	6	0.14	0.24	1.63	0.15	0.29	1.51

Guardian SunGuard® Low-E Coating & Glass Substrate Conversions

Comparisons of Low-E Coatings			Comparisons of Glass Substrates		
Guardian SunGuard®	Vitro Solarban	Viracon	Guardian SunGuard®	Vitro Solarban	Viracon
SNX 51/23	SB 90	VNE 53	UltraClear	Starphire	13, 24
SNX 60+	SB 70	VNE 63	Green	Solexia, Atlantica	2
SNR 43	SB R100	VRE 43	CrystalGray	OptiGray	19
SNR 35	SB R100	VRE 38	Gray	SolarGray	3
SNR 50	SB R77	VRE 4725	CrystalClear	Acuity	35
SNE 50	SB 67	VUE 50	Midnight Gray	Graylite	NA
SN 68	SB 60	VE 2M	-	Solarblue, OptiBlue, Pacifica	26, 18, 27
SNX 70+	SB 72	-	-	Bronze	4

