

## SUNGUARD INSULATED GLASS

### Product Summary Page – Insulated Glass – 8mm / 12mm a.s. / 6mm

#### Build With Light®.

Our comprehensive range of coatings, colours and design solutions allow architects to explore fully the aesthetic and functional possibilities of light — both interior and exterior — while meeting complex energy and performance requirements.

#### Solar Series

Solar Control Reflective Coated Glass

The SunGuard Solar Series consists of high-performance, solar-reflective coated glass products that specialise in blocking heat. All deliver energy efficiency that meets or exceeds energy code requirements.

Silver 20, Royal Blue 20, Silver Grey 32, Neutral 34, Light Blue 52  
Green 20, Aquamarine 20, Green 32, Green 34, Green 52

#### High Performance Series

High Performance Low-E Coated Glass

SunGuard High Performance Series glass delivers medium to high visible light transmission and moderate reflectivity along with maximum energy savings that meet or exceed energy code requirements. There are six low-emissivity coatings to choose from on both clear and green substrates.

Silver 35, Royal Blue 40, Neutral 40, Neutral Plus 50, Neutral 60, ClimaGuard Neutral 70  
Green 35, Aquamarine 40, Green 40, Green Plus 50, Green 60, Green 70

#### High Selective Series

SunGuard High Selective products are designed to reflect specific wavelengths of solar radiation, ensuring that while most of the heat is reflected out of the building, the maximum amount of natural daylight is transmitted inside the building. The resulting energy savings for the heating, cooling and lighting provide improved design flexibility for the architect.

Super Neutral 40, Super Neutral 51, Super Neutral 62, Super Neutral 70

#### SunGuard Select® Processors

SunGuard products are distributed through Guardian's independent network of SunGuard Select Processors. These processors have completed a rigorous certification process administered by Guardian. To locate a SunGuard Select Processor, visit [www.SunGuardGlass.com](http://www.SunGuardGlass.com).

To learn more call us at 00-971-7-205-8080  
or visit us at [www.SunGuardGlass.com](http://www.SunGuardGlass.com)

**Insulating Glass Data 8mm, Clear Outboard Glass, Configuration: 8mm/12mm A.S./6mm**

Product	Visible Light			Solar Energy			European Standards				American Standards (NFRC 100-2001)			
	Transmission %	Reflection outside %	Reflection inside %	Direct Transmission %	Reflection outside %	Absorption %	Solar Factor (g)		Shading Coeff. g DIN/0,87	U-value EN 673 W/(m²K)	Winter		Summer	
							EN 410 %	DIN 67 507 %			U-value Night time BTU/hr.ft².F	U-value Day time BTU/hr.ft².F	SHGC	Relative Heat Gain BTU/hr.ft²
<b>SunGuard® Solar - 8mm clear / 12mm a.s. / 6mm clear</b>							<b>Solar Coating #2 Surface</b>							
Silver 20	17	33	29	12	27	61	21	21	0.24	2.2	0.38	0.40	0.21	54
Royal Blue 20	20	22	32	15	18	67	25	26	0.30	2.6	0.43	0.46	0.27	67
Silver Grey 32	28	25	26	22	19	59	32	33	0.38	2.7	0.46	0.48	0.33	83
Neutral 34	34	24	14	22	20	58	32	32	0.37	2.6	0.43	0.45	0.33	80
Light Blue 52	46	19	21	38	13	49	47	47	0.55	2.8	0.46	0.49	0.48	118
<b>SunGuard® Solar - 8mm clear / 12mm a.s. / 6mm clear</b>							<b>Solar Coating #2 Surface, ClimaGuard Neutral 70 #3 Surface</b>							
Silver 20	14	32	22	9	27	64	18	18	0.21	1.8	0.32	0.32	0.19	47
Royal Blue 20	17	21	24	11	18	71	21	21	0.24	1.9	0.33	0.33	0.22	55
Silver Grey 32	24	24	19	16	19	65	28	27	0.31	1.9	0.33	0.33	0.38	67
Neutral 34	29	24	11	17	20	63	28	27	0.32	1.8	0.33	0.33	0.28	68
Light Blue 52	39	18	16	26	16	58	41	40	0.46	1.9	0.33	0.33	0.40	97
<b>SunGuard® High Performance - 8mm clear / 12mm a.s. / 6mm clear</b>							<b>High Performance Coating #2 Surface</b>							
Silver 35	35	41	22	21	39	41	27	26	0.30	1.6	0.30	0.29	0.26	64
Neutral 40	38	23	14	22	28	49	30	29	0.34	1.7	0.31	0.31	0.29	70
Royal Blue 40	38	26	25	22	28	50	29	28	0.33	1.7	0.30	0.30	0.29	70
Neutral Plus 50	48	25	21	26	33	42	33	31	0.35	1.6	0.29	0.29	0.31	75
Neutral 60	57	23	18	35	29	36	40	38	0.44	1.6	0.29	0.29	0.38	91
ClimaGuard Neutral 70	67	11	12	45	16	39	54	52	0.60	1.9	0.33	0.33	0.52	125
<b>SunGuard® High Selective - 8mm clear / 12mm a.s. / 6mm clear</b>							<b>High Selective Coating #2 Surface</b>							
Super Neutral 40	39	16	31	18	37	45	25	24	0.27	1.6	0.29	0.28	0.23	56
Super Neutral 51	50	12	22	22	39	40	29	27	0.31	1.6	0.29	0.28	0.26	64
Super Neutral 62	61	14	17	27	39	34	35	33	0.37	1.6	0.29	0.28	0.31	75
Super Neutral 70	68	11	12	33	35	32	41	39	0.44	1.6	0.29	0.28	0.38	90
<b>SunGuard® High Performance - 8mm tinted / 12mm a.s. / 6mm clear</b>							<b>ClimaGuard Neutral 70 Coating #3 Surface</b>							
(Green/Clear)	52	9	11	23	7	69	38	36	0.42	1.9	0.33	0.33	0.36	87
(Gray/Clear)	26	6	10	22	9	70	35	34	0.39	1.9	0.33	0.33	0.35	85
(Bronze/Clear)	34	6	10	23	9	68	37	36	0.41	1.9	0.33	0.33	0.37	90
(Blue/Clear)	36	6	10	17	6	77	31	30	0.34	1.9	0.33	0.33	0.29	71

**Insulating Glass Data 8mm, Green Outboard Glass, Configuration: 8mm/12mm A.S./6mm**

Product	Visible Light			Solar Energy			European Standards				American Standards (NFRC 100-2001)			
	Transmission %	Reflection outside %	Reflection inside %	Direct Transmission %	Reflection outside %	Absorption %	Solar Factor (g)		Shading Coeff. g DIN/0,87	U-value EN 673 W/(m²K)	Winter		Summer	
							EN 410 %	DIN 67 507 %			U-value Night time BTU/hr.ft².F	U-value Day time BTU/hr.ft².F	SHGC	Relative Heat Gain BTU/hr.ft²
<b>SunGuard® Solar - 8mm green / 12mm a.s. / 6mm clear</b>							<b>Solar Coating #2 Surface</b>							
Green 20	13	22	29	6	11	83	16	17	0.19	2.2	0.38	0.40	0.18	45
Aquamarine 20	15	15	32	7	9	83	19	20	0.23	2.6	0.43	0.46	0.21	53
Green 32	22	17	26	11	9	80	23	24	0.27	2.7	0.46	0.48	0.24	62
Green 34	26	17	14	12	9	79	23	24	0.27	2.6	0.43	0.45	0.24	61
Green 52	36	14	20	18	8	74	30	30	0.35	2.8	0.46	0.49	0.31	77
<b>SunGuard® Solar - 8mm green / 12mm a.s. / 6mm clear</b>							<b>Solar Coating #2 Surface, ClimaGuard Neutral 70 #3 Surface</b>							
Green 20	11	22	22	5	11	84	14	14	0.17	1.8	0.32	0.32	0.15	38
Aquamarine 20	13	15	24	6	9	85	15	16	0.18	1.9	0.33	0.33	0.16	41
Green 32	19	17	19	8	9	82	19	19	0.22	1.9	0.33	0.33	0.19	48
Green 34	22	16	11	9	9	82	20	20	0.23	1.8	0.33	0.33	0.20	50
Green 52	30	13	15	14	8	78	26	25	0.29	1.9	0.33	0.33	0.25	62
<b>SunGuard® High Performance - 8mm green / 12mm a.s. / 6mm clear</b>							<b>High Performance Coating #2 Surface</b>							
Green 35	27	27	22	11	14	75	19	19	0.21	1.6	0.30	0.29	0.19	46
Green 40	30	16	14	13	10	78	21	21	0.24	1.7	0.31	0.31	0.21	51
Aquamarine 40	30	18	25	12	11	77	20	20	0.23	1.7	0.30	0.30	0.20	49
Green Plus 50	37	17	20	15	11	75	23	22	0.26	1.6	0.29	0.29	0.22	54
Green 60	44	16	17	21	11	68	26	26	0.30	1.6	0.29	0.29	0.26	62
Green 70	52	9	11	24	7	70	33	32	0.37	1.9	0.33	0.33	0.32	77

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. • Guardian performance data are calculated in accordance with the LBNL Window 5.2 computer analysis using an air mass of 1.5. • 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 after heat-treatment.