



PERFORMANCE  
DATA BOOKLET

ASG  
UNDERSTANDING GLASS

## Declaration

1. The data is based on calculation by Window 6.3 under NFRC standard conditions.
2. The actual performance data of products may slightly differ from the data listed.
3. Performance for Insulating glass is calculated as per **6mm** substrate (Low-e #2) + **12mm** Airspacer + **6mm** Clear makeup
4. Performance for Insulating glass on Low Iron is calculated as per **6mm** Low Iron substrate (Low-e #2) + **12mm** Airspacer + **6mm** Low Iron makeup

## Terminology

### 1. Visible Light Transmittance:

The percentage of visible light (380-780nm) that is transmitted through the glass.

### 2. Visible Light Reflectance

The percentage of visible light that is reflected from the glass.

### 3. Solar Transmittance

The percentage of ultraviolet visible & near infrared energy (300-2500nm) that is transmitted.

### 4. Solar Reflectance

The percentage of solar energy that is reflected from the glass surface.

### 5. Shading Coefficient (SC)

The ratio of the solar heat gain through a given type of glass to the solar heat gain through a pane of 1/8(3mm) clear glass under identical conditions. The lower the SC, the lower the heat gain.

### 6. U-Value

Based on standards, a measure of the heat gain or loss through glass due to the difference.

### 7. Solar Heat Gain Coefficient (SHGC)

The SHGC is an incidental fraction of solar radiation emitted through glass both absorbed, transmitted and released inwards. It is a number expressed between 0-1. The lower the SHGC value, the less the solar heat transmitted.

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## 1. Monolithic Float Glass

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
1	5mm Clear	90	8	8	83	8	5.85	5.28	1.00	0.87
2	6mm Clear	90	8	8	82	8	5.82	5.25	0.99	0.86
3	8mm Clear	89	8	8	79	7	5.75	5.19	0.96	0.83
4	10mm Clear	88	8	8	76	7	5.68	5.14	0.94	0.82
5	12mm Clear	88	8	8	72	7	5.61	5.08	0.91	0.79
6	15mm Clear	88	8	8	70	7	5.52	5.00	0.90	0.78
7	19mm Clear	87	8	8	66	6	5.39	4.89	0.86	0.75
8	5mm Low Iron	91	9	9	88	8	5.86	5.28	1.03	0.90
9	6mm Low Iron	90	9	9	88	8	5.82	5.25	1.03	0.90
10	8mm Low Iron	90	9	9	87	8	5.75	5.19	1.02	0.89
11	10mm Low Iron	90	9	9	86	8	5.68	5.13	1.01	0.88
12	12mm Low Iron	90	9	9	86	9	5.62	5.08	1.01	0.88
13	15mm Low Iron	89	9	9	83	8	5.53	5.01	0.99	0.86
14	19mm Low Iron	89	9	9	81	9	5.41	4.90	0.97	0.85
15	5mm Green	77	7	7	48	6	5.85	5.28	0.72	0.62
16	6mm Green	74	7	7	43	5	5.81	5.25	0.68	0.59
17	8mm Green	70	7	7	36	5	5.75	5.19	0.63	0.55
18	10mm Green	65	7	7	30	5	5.68	5.13	0.59	0.51
19	5mm Grey	50	6	6	51	6	5.85	5.28	0.74	0.65
20	6mm Grey	44	5	5	45	5	5.81	5.25	0.70	0.61
21	8mm Grey	35	5	5	36	5	5.75	5.19	0.63	0.55
22	10mm Grey	27	5	5	29	5	5.68	5.13	0.58	0.50
23	5mm Dark Blue	61	6	6	52	6	5.84	5.26	0.75	0.65
24	6mm Dark Blue	56	6	6	47	5	5.80	5.23	0.71	0.62
25	8mm Dark Blue	46	6	6	38	5	5.73	5.18	0.65	0.56
26	10mm Dark Blue	41	6	6	31	5	5.67	5.12	0.60	0.52
27	5mm Crystal Grey	67	7	7	60	6	5.85	5.28	0.82	0.71
28	6mm Crystal Grey	63	6	6	56	6	5.81	5.25	0.79	0.68
29	8mm Crystal Grey	56	6	6	49	6	5.75	5.19	0.73	0.63
30	10mm Crystal Grey	50	6	6	42	5	5.68	5.13	0.68	0.59

## 2. Pyrolytic Low-E Glass

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
1	5mm Planibel	82	10	10	66	10	3.85	3.03	0.81	0.70
2	6mm Planibel	81	10	10	65	10	3.83	3.01	0.80	0.69
3	8mm Planibel	80	10	10	62	9	3.80	2.99	0.78	0.67

## 2. Pyrolytic Low-E Glass

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
4	10mm Planibel	79	10	10	59	9	3.77	2.97	0.75	0.65
5	5mm Sunergy	72	8	9	54	11	4.19	3.44	0.72	0.63
6	6mm Sunergy	72	8	9	54	11	4.17	3.43	0.71	0.62
7	8mm Sunergy	72	8	9	52	10	4.10	3.36	0.70	0.61
8	10mm Sunergy	70	8	9	50	9	4.00	3.25	0.67	0.58

## 3. Laminated Glass

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
1	5mm Clear/0.38mm PVB/5mm Clear	88	8	8	78	7	5.63	5.09	0.95	0.82
2	6mm Clear/1.52mm PVB/6mm Clear	87	8	8	70	7	5.39	4.89	0.89	0.78
3	5mm Low Iron/0.38mm PVB/5mm Low Iron	90	9	9	82	8	5.63	5.09	0.98	0.85
4	6mm Low Iron/1.52mm PVB/6mm Low Iron	90	8	8	80	8	5.40	4.90	0.97	0.84
5	5mm Green/0.38mm PVB/5mm Clear	76	7	7	44	5	5.62	5.08	0.69	0.60
6	6mm Green/1.52mm PVB/6mm Clear	71	7	7	36	6	5.39	4.89	0.63	0.55
7	5mm Grey/0.38mm PVB/5mm Clear	50	6	6	46	5	5.62	5.08	0.70	0.61
8	6mm Grey/1.52mm PVB/6mm Clear	44	5	5	38	5	5.39	4.89	0.65	0.56
9	5mm Dark Blue/0.38mm PVB/5mm Clear	60	6	6	47	5	5.62	5.08	0.71	0.62
10	6mm Dark Blue/1.52mm PVB/6mm Clear	55	6	6	39	5	5.39	4.89	0.66	0.57
11	5mm Crystal Grey/0.38mm PVB/5mm Clear	66	6	6	54	6	5.62	5.08	0.77	0.67
12	6mm Crystal Grey/1.52mm PVB/6mm Clear	62	6	6	50	6	5.40	4.90	0.74	0.64

## 4. Planibel Solar Reflective Laminated Series

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
1	5mm Clear/0.38mm PVB/5mm Planibel#4	81	10	11	61	8	3.77	3.00	0.78	0.68
2	6mm Clear/1.52mm PVB/6mm Planibel#4	80	10	10	59	8	3.62	2.88	0.76	0.66
3	6mm SolarPro 160 on Clear/1.52mm PVB/6mm Planibel#4	56	11	14	42	8	3.62	2.88	0.61	0.52
4	6mm SolarPro 152 on Clear/1.52mm PVB/6mm Planibel#4	45	12	14	33	9	3.62	2.88	0.52	0.45
5	6mm SolarPro 138 on Clear/1.52mm PVB/6mm Planibel#4	35	16	19	26	12	3.62	2.88	0.45	0.39
6	6mm SolarPro 135 on Clear/1.52mm PVB/6mm Planibel#4	36	20	14	27	15	3.62	2.88	0.45	0.39
7	5mm Low Iron/0.38mm PVB/5mm Planibel#4	82	10	11	65	9	3.74	2.96	0.81	0.70
8	6mm Low Iron/1.52mm PVB/6mm Planibel#4	81	10	10	63	8	3.63	2.89	0.79	0.68
9	6mm SolarPro 060 on Low Iron/1.52mm PVB/6mm Planibel#4	57	11	15	45	8	3.63	2.89	0.63	0.54
10	6mm SolarPro 052 on Low Iron/1.52mm PVB/6mm Planibel#4	46	12	14	35	10	3.63	2.89	0.54	0.46
11	6mm SolarPro 038 on Low Iron/1.52mm PVB/6mm Planibel#4	36	16	19	27	13	3.63	2.89	0.46	0.40
12	6mm SolarPro 035 on Low Iron/1.52mm PVB/6mm Planibel#4	37	20	14	28	16	3.63	2.89	0.46	0.40

## 4. Planibel Solar Reflective Laminated Series

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m <sup>2</sup> .°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
13	5mm Green/0.38mm PVB/5mm Planibel#4	68	8	10	36	6	3.74	2.96	0.55	0.47
14	6mm Green/1.52mm PVB/6mm Planibel#4	64	8	9	31	6	3.63	2.89	0.51	0.44
15	6mm SolarPro 260 on Green/1.52mm PVB/6mm Planibel#4	45	9	14	22	6	3.63	2.89	0.43	0.37
16	6mm SolarPro 252 on Green/1.52mm PVB/6mm Planibel#4	36	10	14	18	7	3.63	2.89	0.39	0.33
17	6mm SolarPro 238 on Green/1.52mm PVB/6mm Planibel#4	28	12	19	14	8	3.63	2.89	0.36	0.30
18	6mm SolarPro 235 on Green/1.52mm PVB/6mm Planibel#4	29	15	14	14	9	3.63	2.89	0.36	0.30
19	5mm Grey/0.38mm PVB/5mm Planibel#4	45	6	8	37	6	3.74	2.96	0.56	0.48
20	6mm Grey/1.52mm PVB/6mm Planibel#4	40	6	8	31	5	3.63	2.89	0.52	0.44
21	6mm SolarPro 360 on Grey/1.52mm PVB/6mm Planibel#4	28	6	13	22	5	3.63	2.89	0.44	0.37
22	6mm SolarPro 352 on Grey/1.52mm PVB/6mm Planibel#4	22	6	14	17	6	3.63	2.89	0.39	0.33
23	6mm SolarPro 338 on Grey/1.52mm PVB/6mm Planibel#4	17	7	18	14	7	3.63	2.89	0.36	0.30
24	6mm SolarPro 335 on Grey/1.52mm PVB/6mm Planibel#4	18	8	14	14	7	3.63	2.89	0.36	0.30
25	5mm Dark Blue/0.38mm PVB/5mm Planibel#4	55	7	9	39	6	3.74	2.96	0.58	0.50
26	6mm Dark Blue/1.52mm PVB/6mm Planibel#4	49	7	8	34	6	3.63	2.89	0.54	0.46
27	6mm SolarPro 560 on Dark Blue/1.52mm PVB/6mm Planibel#4	35	7	14	24	6	3.63	2.89	0.45	0.38
28	6mm SolarPro 552 on Dark Blue/1.52mm PVB/6mm Planibel#4	28	8	14	19	6	3.63	2.89	0.40	0.34
29	6mm SolarPro 538 on Dark Blue/1.52mm PVB/6mm Planibel#4	22	9	19	15	7	3.63	2.89	0.37	0.31
30	6mm SolarPro 535 on Dark Blue/1.52mm PVB/6mm Planibel#4	23	11	14	15	8	3.63	2.89	0.37	0.31
31	5mm Crystal Grey/0.38mm PVB/5mm Planibel#4	60	7	9	44	7	3.74	2.96	0.62	0.54
32	6mm Crystal Grey/1.52mm PVB/6mm Planibel#4	57	7	9	41	6	3.63	2.89	0.60	0.52
33	6mm SolarPro 760 on Crystal Grey/1.52mm PVB/6mm Planibel#4	40	8	14	29	6	3.63	2.89	0.50	0.43
34	6mm SolarPro 752 on Crystal Grey/1.52mm PVB/6mm Planibel#4	32	9	14	23	7	3.63	2.89	0.44	0.38
35	6mm SolarPro 738 on Crystal Grey/1.52mm PVB/6mm Planibel#4	25	10	19	18	8	3.63	2.89	0.39	0.33
36	6mm SolarPro 735 on Crystal Grey/1.52mm PVB/6mm Planibel#4	26	13	14	19	10	3.63	2.89	0.39	0.34

## 5. Sunergy Solar Reflective Laminated Series

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m <sup>2</sup> .°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
1	5mm Clear/0.38mm PVB/5mm Sunergy#4	71	8	9	52	9	3.96	3.23	0.70	0.60
2	6mm Clear/1.52mm PVB/6mm Sunergy#4	71	8	9	50	8	3.84	3.15	0.68	0.59
3	6mm SolarPro 160 on Clear/1.52mm PVB/6mm Sunergy#4	50	10	13	35	8	3.84	3.15	0.56	0.48
4	6mm SolarPro 152 on Clear/1.52mm PVB/6mm Sunergy#4	40	12	12	28	9	3.84	3.15	0.49	0.42
5	6mm SolarPro 138 on Clear/1.52mm PVB/6mm Sunergy#4	31	16	16	22	12	3.84	3.15	0.43	0.36
6	6mm SolarPro 135 on Clear/1.52mm PVB/6mm Sunergy#4	32	20	13	22	15	3.84	3.15	0.42	0.36
7	5mm Low Iron/0.38mm PVB/5mm Sunergy#4	72	8	10	54	9	3.96	3.23	0.71	0.62
8	6mm Low Iron/1.52mm PVB/6mm Sunergy#4	72	8	9	52	8	3.84	3.15	0.70	0.61

## 5. Sunergy Solar Reflective Laminated Series

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
9	6mm SolarPro 060 on Low Iron/1.52mm PVB/6mm Sunergy#4	51	10	13	37	8	3.84	3.15	0.57	0.49
10	6mm SolarPro 052 on Low Iron/1.52mm PVB/6mm Sunergy#4	41	12	13	29	10	3.84	3.15	0.50	0.42
11	6mm SolarPro 038 on Low Iron/1.52mm PVB/6mm Sunergy#4	32	16	16	23	13	3.84	3.15	0.44	0.37
12	6mm SolarPro 035 on Low Iron/1.52mm PVB/6mm Sunergy#4	33	20	13	24	16	3.84	3.15	0.43	0.37
13	5mm Green/0.38mm PVB/5mm Sunergy#4	60	7	9	31	6	3.96	3.23	0.51	0.44
14	6mm Green/1.52mm PVB/6mm Sunergy#4	57	7	9	27	6	3.84	3.15	0.49	0.42
15	6mm SolarPro 260 on Green/1.52mm PVB/6mm Sunergy#4	40	8	12	19	6	3.84	3.15	0.42	0.36
16	6mm SolarPro 252 on Green/1.52mm PVB/6mm Sunergy#4	32	9	12	15	7	3.84	3.15	0.38	0.33
17	6mm SolarPro 238 on Green/1.52mm PVB/6mm Sunergy#4	25	12	16	12	8	3.84	3.15	0.35	0.30
18	6mm SolarPro 235 on Green/1.52mm PVB/6mm Sunergy#4	26	15	12	12	9	3.84	3.15	0.35	0.30
19	5mm Grey/0.38mm PVB/5mm Sunergy#4	39	6	8	31	6	3.96	3.23	0.51	0.44
20	6mm Grey/1.52mm PVB/6mm Sunergy#4	35	5	7	26	5	3.84	3.15	0.48	0.41
21	6mm SolarPro 360 on Grey/1.52mm PVB/6mm Sunergy#4	25	6	12	19	5	3.84	3.15	0.42	0.36
22	6mm SolarPro 352 on Grey/1.52mm PVB/6mm Sunergy#4	20	6	12	15	6	3.84	3.15	0.38	0.32
23	6mm SolarPro 338 on Grey/1.52mm PVB/6mm Sunergy#4	15	7	16	11	7	3.84	3.15	0.35	0.30
24	6mm SolarPro 335 on Grey/1.52mm PVB/6mm Sunergy#4	16	8	12	12	7	3.84	3.15	0.35	0.30
25	5mm Dark Blue/0.38mm PVB/5mm Sunergy#4	48	6	8	33	6	3.96	3.23	0.53	0.46
26	6mm Dark Blue/1.52mm PVB/6mm Sunergy#4	44	6	8	29	6	3.84	3.15	0.50	0.43
27	6mm SolarPro 560 on Dark Blue/1.52mm PVB/6mm Sunergy#4	31	7	12	20	6	3.84	3.15	0.43	0.37
28	6mm SolarPro 552 on Dark Blue/1.52mm PVB/6mm Sunergy#4	25	7	12	16	6	3.84	3.15	0.39	0.33
29	6mm SolarPro 538 on Dark Blue/1.52mm PVB/6mm Sunergy#4	19	9	16	12	7	3.84	3.15	0.36	0.30
30	6mm SolarPro 535 on Dark Blue/1.52mm PVB/6mm Sunergy#4	20	11	12	13	8	3.84	3.15	0.36	0.30
31	5mm Crystal Grey/0.38mm PVB/5mm Sunergy#4	53	7	8	37	7	3.96	3.23	0.57	0.49
32	6mm Crystal Grey/1.52mm PVB/6mm Sunergy#4	50	6	8	35	6	3.84	3.15	0.56	0.48
33	6mm SolarPro 760 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	35	8	12	25	6	3.84	3.15	0.47	0.40
34	6mm SolarPro 752 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	28	8	12	19	7	3.84	3.15	0.42	0.36
35	6mm SolarPro 738 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	22	10	16	15	8	3.84	3.15	0.38	0.32
36	6mm SolarPro 735 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	23	12	12	16	10	3.84	3.15	0.38	0.32

## 6. Solar Reflective SolarPro Series

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
1	6SolarPro 160 on Clear	63	10	14	60	8	5.72	5.16	0.80	0.69
2	6SolarPro 152 on Clear	51	12	13	47	9	5.37	4.78	0.68	0.59
3	6SolarPro 138 on Clear	39	15	19	36	12	5.25	4.65	0.58	0.51

## 6. Solar Reflective SolarPro Series

No.	Description of Product(s)	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
		Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
			Outdoor	Indoor						
4	6SolarPro 135 on Clear	41	20	14	38	15	5.19	4.58	0.58	0.50
5	6SolarPro 060 on Low Iron	64	11	14	64	8	5.73	5.16	0.83	0.72
6	6SolarPro 052 on Low Iron	51	12	13	49	9	5.37	4.78	0.70	0.60
7	6SolarPro 038 on Low Iron	40	16	19	39	13	5.26	4.66	0.60	0.52
8	6SolarPro 035 on Low Iron	42	20	13	39	15	5.19	4.85	0.59	0.51
9	6SolarPro 260 on Green	51	9	13	30	6	5.73	5.18	0.57	0.48
10	6SolarPro 252 on Green	41	10	13	23	7	5.38	4.80	0.50	0.43
11	6SolarPro 238 on Green	32	12	19	18	8	5.26	4.67	0.45	0.38
12	6SolarPro 235 on Green	33	15	13	19	9	5.20	4.60	0.45	0.38
13	6SolarPro 360 on Euro Grey	31	6	12	32	5	5.72	5.17	0.59	0.51
14	6SolarPro 352 on Euro Grey	25	6	12	25	6	5.37	4.80	0.52	0.44
15	6SolarPro 338 on Euro Grey	19	7	19	20	7	5.26	4.67	0.47	0.40
16	6SolarPro 335 on Euro Grey	20	8	13	20	7	5.19	4.59	0.46	0.40
17	6SolarPro 560 on Dark Blue	39	7	12	34	6	5.73	5.17	0.60	0.52
18	6SolarPro 552 on Dark Blue	31	7	13	26	6	5.37	4.80	0.53	0.45
19	6SolarPro 538 on Dark Blue	24	9	19	21	7	5.26	4.67	0.47	0.40
20	6SolarPro 535 on Dark Blue	25	11	13	21	8	5.19	4.59	0.47	0.40
21	6SolarPro 760 on Crystal Grey	45	8	13	42	6	5.73	5.16	66.00	0.57
22	6SolarPro 752 on Crystal Grey	36	8	13	33	7	5.37	4.78	0.58	0.49
23	6SolarPro 738 on Crystal Grey	28	10	19	25	8	5.26	4.66	0.51	0.44
24	6SolarPro 735 on Crystal Grey	29	12	13	26	10	5.19	4.58	0.51	0.43

## 7. Insulating Glass Super Temperable Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6Super S1 on Clear	Neutral	77	12	13	56	21	1.78	1.76	0.70	0.60
2	6Super S2 on Clear	Neutral	65	16	12	43	25	1.80	1.80	0.55	0.48
3	6Super S3 on Clear	Neutral	54	20	11	36	24	1.82	1.82	0.47	0.41
4	6Super D66-1 on Clear	Neutral	60	10	11	31	30	1.69	1.64	0.40	0.35
5	6Super D46-1 on Clear	Neutral	43	13	15	19	29	1.69	1.65	0.28	0.24
6	6Super T65S-1 on Clear	Neutral	64	10	12	26	35	1.65	1.59	0.35	0.30
7	6Super S1 on Low Iron	Neutral	80	12	14	61	23	1.78	1.76	0.73	0.64
8	6Super S2 on Low Iron	Neutral	67	17	12	47	28	1.80	1.80	0.58	0.50
9	6Super S3 on Low Iron	Neutral	55	20	11	39	26	1.82	1.83	0.49	0.43
10	6Super D66-0 on Low Iron	Neutral	62	10	11	32	33	1.69	1.64	0.41	0.36
11	6Super D46-0 on Low Iron	Neutral	42	13	12	22	34	1.67	1.62	0.30	0.26
12	6Super T65S-0 on Low Iron	Neutral	65	11	13	28	40	1.65	1.59	0.35	0.30



## 7. Insulating Glass Super Temperable Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
13	6Super S1 on Green	Green	62	10	12	30	8	1.78	1.77	0.43	0.37
14	6Super S2 on Green	Green	53	13	11	24	9	1.80	1.80	0.36	0.32
15	6Super S3 on Green	Green	43	15	10	20	10	1.82	1.83	0.32	0.28
16	6Super S1 on Euro Grey	Grey	38	6	11	29	10	1.78	1.77	0.42	0.37
17	6Super S2 on Euro Grey	Grey	32	7	10	22	11	1.80	1.80	0.35	0.30
18	6Super S3 on Euro Grey	Grey	26	8	10	19	10	1.82	1.83	0.31	0.27
19	6Super S1 on Dark Blue	Blue	48	7	11	32	10	1.78	1.77	0.45	0.39
20	6Super S2 on Dark Blue	Blue	41	9	11	25	11	1.80	1.80	0.37	0.32
21	6Super S3 on Dark Blue	Blue	33	11	10	21	11	1.82	1.83	0.33	0.28
22	6Super S1 on Crystal Grey	Light Grey	55	8	12	39	13	1.78	1.76	0.52	0.45
23	6Super S2 on Crystal Grey	Light Grey	46	11	11	30	15	1.80	1.80	0.42	0.37
24	6Super S3 on Crystal Grey	Light Grey	38	13	10	25	14	1.82	1.82	0.37	0.32

## 8. Insulating Glass Double Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6Visualite 78-1 on Clear	Neutral	68	10	12	35	33	1.66	1.61	0.45	0.39
2	6Visualite 67-1 on Clear	Neutral	63	12	12	31	36	1.64	1.58	0.41	0.35
3	6Aqua SHade 60-1 on Clear	Light Blue	59	16	14	27	40	1.65	1.59	0.36	0.31
4	6Cool SHade 57-1 on Clear	Light Grey	52	15	11	26	35	1.65	1.59	0.35	0.30
5	6Cool SHade 52-1 on Clear	Light Grey	49	14	11	24	34	1.66	1.61	0.33	0.29
6	6Cool SHade 42-1 on Clear	Light Grey	43	13	11	21	35	1.66	1.60	0.29	0.25
7	6Cool SHade 30-1 on Clear	Light Grey	31	19	12	15	36	1.67	1.62	0.23	0.20
8	6Plati SHade 39-1 on Clear	Silver Grey	41	20	16	19	39	1.64	1.58	0.27	0.23
9	6Visualite 78-0 on Low Iron	Neutral	70	10	12	37	37	1.65	1.60	0.46	0.40
10	6Visualite 67-0 on Low Iron	Neutral	65	13	13	33	41	1.64	1.58	0.41	0.36
11	6Aqua SHade 60-0 on Low Iron	Light Blue	61	16	14	29	46	1.64	1.58	0.36	0.31
12	6Cool SHade 57-0 on Low Iron	Light Grey	54	15	11	27	39	1.64	1.59	0.35	0.30
13	6Cool SHade 52-0 on Low Iron	Light Grey	51	14	11	25	38	1.66	1.60	0.33	0.28
14	6Cool SHade 42-0 on Low Iron	Light Grey	44	14	11	22	39	1.65	1.60	0.30	0.25
15	6Cool SHade 30-0 on Low Iron	Light Grey	32	19	12	16	40	1.66	1.61	0.22	0.19
16	6Plati SHade 39-0 on Low Iron	Silver Grey	43	20	16	20	43	1.64	1.58	0.27	0.23
17	6Visualite 78-2 on Green	Green	57	8	11	23	8	1.65	1.60	0.34	0.30
18	6Visualite 67-2 on Green	Green	53	10	12	21	9	1.64	1.58	0.32	0.28
19	6Aqua SHade 60-2 on Green	Green	49	12	13	19	10	1.64	1.58	0.29	0.25
20	6Cool SHade 57-2 on Green	Green	43	11	10	17	10	1.64	1.59	0.28	0.24

## 8. Insulating Glass Double Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m <sup>2</sup> .°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
21	6Cool SHade 52-2 on Green	Green	41	11	10	16	9	1.66	1.60	0.27	0.23
22	6Cool SHade 42-2 on Green	Green	36	10	11	14	9	1.65	1.60	0.24	0.21
23	6Cool SHade 30-2 on Green	Green	25	14	11	10	11	1.66	1.61	0.20	0.17
24	6Plati SHade 39-2 on Green	Green	34	16	15	13	11	1.64	1.58	0.23	0.20
25	6Visualite 78-3 on Grey	Grey	34	5	10	18	13	1.65	1.60	0.28	0.25
26	6Visualite 67-3 on Grey	Grey	31	6	11	16	14	1.64	1.58	0.27	0.23
27	6Aqua SHade 60-3 on Grey	Grey	29	7	12	14	15	1.64	1.58	0.24	0.20
28	6Cool SHade 57-3 on Grey	Grey	26	7	10	13	13	1.64	1.59	0.23	0.20
29	6Cool SHade 52-3 on Grey	Grey	24	6	10	12	13	1.65	1.60	0.22	0.19
30	6Cool SHade 42-3 on Grey	Grey	21	6	10	10	13	1.65	1.60	0.20	0.18
31	6Cool SHade 30-3 on Grey	Grey	15	8	11	7	14	1.66	1.61	0.17	0.15
32	6Plati SHade 39-3 on Grey	Grey	20	8	15	9	14	1.64	1.58	0.19	0.16
33	6Visualite 78-5 on Dark Blue	Blue	40	7	11	19	13	1.64	1.60	0.32	0.28
34	6Visualite 67-5 on Dark Blue	Blue	38	6	10	19	11	1.64	1.58	0.30	0.26
35	6Aqua SHade 60-5 on Dark Blue	Blue	37	8	12	17	14	1.64	1.58	0.27	0.23
36	6Cool SHade 57-5 on Dark Blue	Blue	33	8	10	15	12	1.64	1.59	0.26	0.22
37	6Cool SHade 52-5 on Dark Blue	Blue	31	8	10	14	12	1.66	1.60	0.25	0.21
38	6Cool SHade 42-5 on Dark Blue	Blue	27	8	10	12	12	1.65	1.60	0.22	0.19
39	6Cool SHade 30-5 on Dark Blue	Blue	19	10	11	9	13	1.66	1.61	0.18	0.16
40	6Plati SHade 39-5 on Dark Blue	Blue	26	11	15	11	14	1.64	1.58	0.21	0.18
41	6Visualite 78-7 on Crystal Grey	Light Grey	48	7	10	24	16	1.65	1.60	0.35	0.30
42	6Visualite 67-7 on Crystal Grey	Light Grey	45	8	11	22	18	1.64	1.58	0.32	0.28
43	6Aqua SHade 60-7 on Crystal Grey	Light Grey	42	10	12	19	19	1.64	1.58	0.28	0.25
44	6Cool SHade 57-7 on Crystal Grey	Light Grey	37	9	10	18	17	1.64	1.59	0.28	0.24
45	6Cool SHade 52-7 on Crystal Grey	Light Grey	35	9	10	16	16	1.66	1.60	0.26	0.23
46	6Cool SHade 42-7 on Crystal Grey	Light Grey	30	9	10	14	17	1.65	1.60	0.24	0.21
47	6Cool SHade 30-7 on Crystal Grey	Light Grey	21	11	11	10	18	1.66	1.61	0.19	0.17
48	6Plati SHade 39-7 on Crystal Grey	Light Grey	29	13	15	13	19	1.64	1.58	0.22	0.19

## 9. Insulating Glass Triple Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m <sup>2</sup> .°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Visualite 70S-1 on Clear	Neutral	62	11	13	26	40	1.62	1.56	0.34	0.29
2	6mm Visualite 65S-1 on Clear	Neutral Green	61	11	12	25	41	1.62	1.55	0.33	0.28
3	6mm Super SHade 55S-1 on Clear	Neutral Grey	50	9	14	22	38	1.64	1.59	0.30	0.26
4	6mm Super SHade 52S-1 on Clear	Neutral Grey	49	16	12	21	42	1.62	1.56	0.28	0.24

## 9. Insulating Glass Triple Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
5	6mm Visualite 70S-0 on Low Iron	Neutral	64	11	12	27	46	1.62	1.55	0.34	0.29
6	6mm Visualite 65S-0 on Low Iron	Neutral Green	62	11	12	26	48	1.62	1.55	0.33	0.29
7	6mm Super SHade 55S-0 on Low Iron	Neutral Grey	51	9	14	23	44	1.64	1.58	0.30	0.26
8	6mm Super SHade 52S-0 on Low Iron	Neutral Grey	50	16	12	21	48	1.62	1.55	0.27	0.24
9	6mm Visualite 70S-2 on Green	Green	52	9	12	19	9	1.62	1.55	0.29	0.25
10	6mm Visualite 65S-2 on Green	Green	51	9	12	19	10	1.62	1.55	0.29	0.25
11	6mm Super SHade 55S-2 on Green	Green	41	7	13	16	8	1.64	1.58	0.26	0.22
12	6mm Super SHade 52S-2 on Green	Green	40	12	11	15	10	1.62	1.55	0.24	0.21
13	6mm Visualite 70S-3 on Grey	Grey	31	6	11	13	15	1.62	1.55	0.22	0.19
14	6mm Visualite 65S-3 on Grey	Grey	30	6	11	13	16	1.62	1.55	0.22	0.19
15	6mm Super SHade 55S-3 on Grey	Grey	24	5	12	11	14	1.64	1.58	0.21	0.18
16	6mm Super SHade 52S-3 on Grey	Grey	24	7	11	10	16	1.62	1.55	0.20	0.17
17	6mm Visualite 70S-5 on Dark Blue	Blue	39	7	11	16	13	1.62	1.55	0.26	0.22
18	6mm Visualite 65S-5 on Dark Blue	Blue	38	7	11	16	14	1.62	1.55	0.26	0.22
19	6mm Super SHade 55S-5 on Dark Blue	Blue	31	6	13	13	13	1.64	1.58	0.23	0.20
20	6mm Super SHade 52S-5 on Dark Blue	Blue	30	9	11	12	14	1.62	1.55	0.22	0.19
21	6mm Visualite 70S-7 on Crystal Grey	Light Grey	44	7	11	18	19	1.62	1.55	0.27	0.24
22	6mm Visualite 65S-7 on Crystal Grey	Light Grey	43	8	12	18	20	1.62	1.55	0.27	0.24
23	6mm Super SHade 55S-7 on Crystal Grey	Light Grey	35	6	13	15	18	1.64	1.58	0.25	0.21
24	6mm Super SHade 52S-7 on Crystal Grey	Light Grey	34	10	11	14	20	1.62	1.55	0.23	0.20

## 10. Insulating Glass UniQ SHade Low-E Series

No.	Description of Product(s)	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Ivory Gold 50-1 on Clear	Light Gold	45	18	17	24	29	1.70	1.66	0.34	0.29
2	6mm Champagne 46-1 on Clear	Champagne	41	20	18	22	29	1.74	1.71	0.32	0.28
3	6mm Sky Blue 43-1 on Clear	Sky Blue	43	20	14	19	37	1.64	1.58	0.27	0.23

**Note:**

- Performance for Insulating glass is calculated as per **6mm** substrate (Low-e #2) + **12mm** Airspacer + **6mm** Clear makeup
- Performance for Insulating glass on Low Iron is calculated as per **6mm** Low Iron substrate (Low-e #2) + **12mm** Airspacer + **6mm** Low Iron makeup

ASG  
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