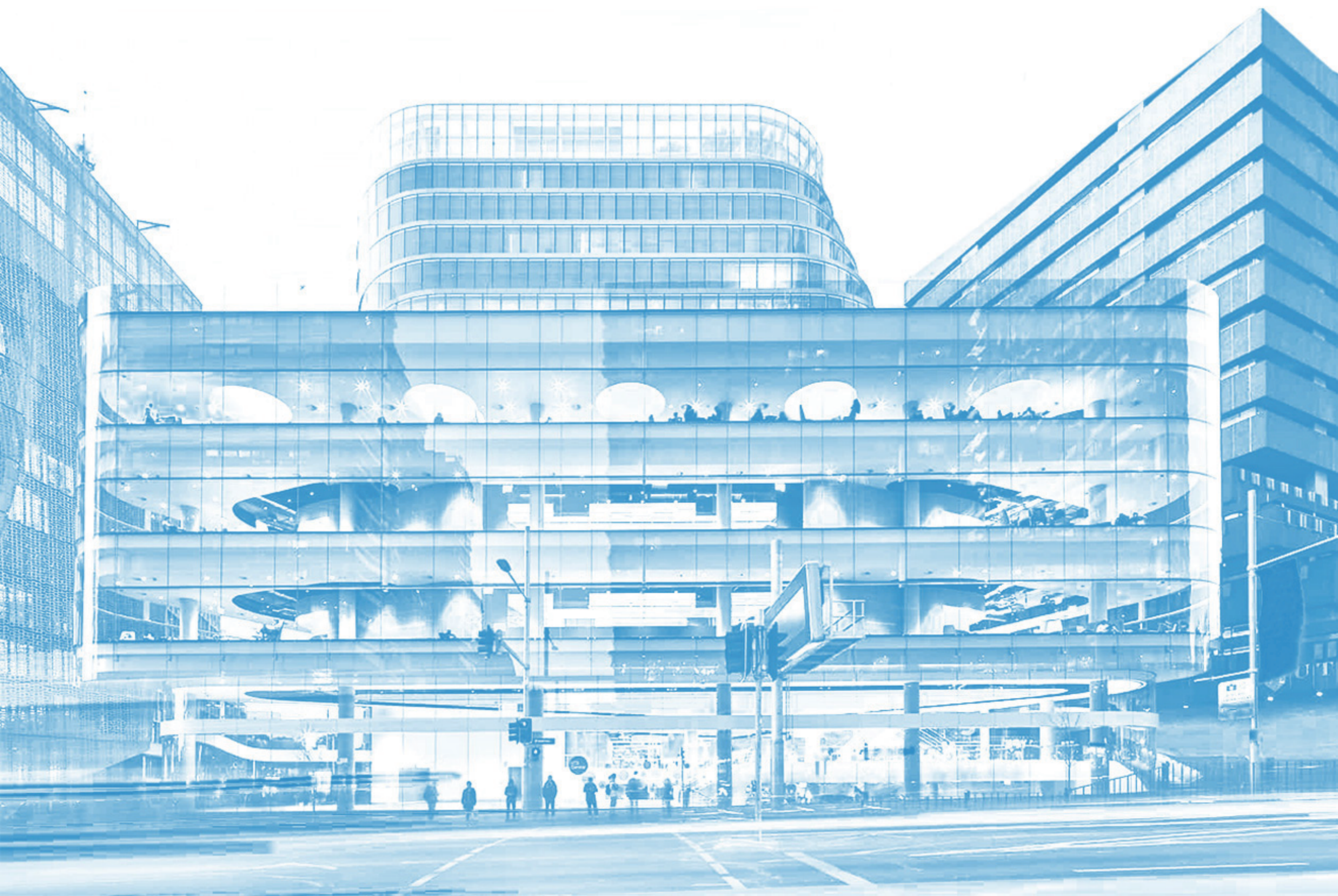


ASG[®]
UNDERSTANDING GLASS

PERFORMANCE DATA
BOOKLET



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.

Terminology

1. Visible Light Transmittance:

The percentage of visible light (380-780) 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 infra red 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 incident 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

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	4mm Clear	Clear	90	8	8	85	8	5.88	5.30	1.00	0.87
2	5mm Clear	Clear	90	8	8	83	8	5.85	5.28	1.00	0.87
3	6mm Clear	Clear	90	8	8	82	8	5.82	5.25	0.99	0.86
4	8mm Clear	Clear	89	8	8	79	7	5.75	5.19	0.96	0.83
5	10mm Clear	Clear	88	8	8	76	7	5.68	5.14	0.94	0.82
6	12mm Clear	Clear	88	8	8	72	7	5.61	5.08	0.91	0.79
7	15mm Clear	Clear	88	8	8	70	7	5.52	5.00	0.90	0.78
8	19mm Clear	Clear	87	8	8	66	6	5.39	4.89	0.86	0.75
9	4mm Ultra Clear	Clear	91	9	9	90	8	5.89	5.31	1.03	0.90
10	5mm Ultra Clear	Clear	91	9	9	88	8	5.86	5.28	1.03	0.90
11	6mm Ultra Clear	Clear	90	9	9	88	8	5.82	5.25	1.03	0.90
12	8mm Ultra Clear	Clear	90	9	9	87	8	5.75	5.19	1.02	0.89
13	10mm Ultra Clear	Clear	90	9	9	86	8	5.68	5.13	1.01	0.88
14	12mm Ultra Clear	Clear	90	9	9	86	9	5.62	5.08	1.01	0.88
15	15mm Ultra Clear	Clear	89	9	9	83	8	5.53	5.01	0.99	0.86
16	19mm Ultra Clear	Clear	89	9	9	81	9	5.41	4.90	0.97	0.85
17	5mm Green	Green	77	7	7	48	6	5.85	5.28	0.72	0.62
18	6mm Green	Green	74	7	7	43	5	5.81	5.25	0.68	0.59
19	8mm Green	Green	70	7	7	36	5	5.75	5.19	0.63	0.55
20	10mm Green	Green	65	7	7	30	5	5.68	5.13	0.59	0.51
21	5mm Grey	Grey	50	6	6	51	6	5.85	5.28	0.74	0.65
22	6mm Grey	Grey	44	5	5	45	5	5.81	5.25	0.70	0.61
23	8mm Grey	Grey	35	5	5	36	5	5.75	5.19	0.63	0.55
24	10mm Grey	Grey	27	5	5	29	5	5.68	5.13	0.58	0.50
25	5mm Bronze	Bronze	49	6	6	48	6	5.85	5.28	0.71	0.62
26	6mm Bronze	Bronze	43	6	6	42	5	5.81	5.25	0.67	0.58
27	8mm Bronze	Bronze	34	5	5	32	5	5.74	5.19	0.60	0.51
28	10mm Bronze	Bronze	26	5	5	25	5	5.68	5.13	0.54	0.47
29	5mm Blue	Blue	59	6	6	53	5	5.81	5.24	0.76	0.66
30	6mm Blue	Blue	54	6	6	48	5	5.77	5.21	0.72	0.62
31	8mm Blue	Blue	46	5	5	39	5	5.69	5.14	0.65	0.56
32	10mm Blue	Blue	38	5	5	32	4	5.61	5.07	0.60	0.52
33	5mm Light Grey	Light Grey	67	7	7	60	6	5.85	5.28	0.82	0.71
34	6mm Light Grey	Light Grey	63	6	6	56	6	5.81	5.25	0.79	0.68

1. Monolithic

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
35	8mm Light Grey	Light Grey	56	6	6	49	6	5.75	5.19	0.73	0.63
36	10mm Light Grey	Light Grey	50	6	6	42	5	5.68	5.13	0.68	0.59

2. EnerFlex Pyrolytic Coating Series

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	5mm EnerFlex Clear	Clear	82	10	10	66	10	3.78	2.94	0.81	0.70
2	6mm EnerFlex Clear	Clear	81	10	10	64	10	3.76	2.93	0.80	0.69
3	8mm EnerFlex Clear	Clear	81	10	10	62	9	3.73	2.91	0.77	0.67
4	10mm EnerFlex Clear	Clear	80	10	10	59	9	3.70	2.89	0.75	0.65
5	5mm EnerFlex Neutral	Neutral	72	9	10	55	10	4.08	3.31	0.72	0.62
6	6mm EnerFlex Neutral	Neutral	72	9	10	54	10	4.07	3.30	0.71	0.61
7	8mm EnerFlex Neutral	Neutral	71	9	10	52	9	4.03	3.28	0.69	0.59
8	10mm EnerFlex Neutral	Neutral	70	8	10	50	9	4.00	3.25	0.67	0.58
9	5mm EnerFlex Grey	Light Grey	50	6	8	38	8	4.58	3.89	0.58	0.50
10	6mm EnerFlex Grey	Light Grey	50	6	8	37	8	4.56	3.88	0.58	0.50
11	8mm EnerFlex Grey	Light Grey	49	6	8	35	7	4.52	3.84	0.57	0.49
12	10mm EnerFlex Grey	Light Grey	48	6	8	34	7	4.47	3.81	0.56	0.48

3. Solar Reflective SolarPro Series

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm SolarPro 160 on Clear	Light Blue	64	10	14	60	8	5.72	5.15	0.80	0.69
2	6mm SolarPro 138 on Clear	Silver Grey	40	16	19	37	12	5.26	4.66	0.59	0.50
3	6mm SolarPro 131 on Clear	Silver Grey	30	17	24	27	15	4.97	4.34	0.49	0.42
4	6mm SolarPro 360 on Grey	Grey	32	6	12	32	5	5.72	5.15	0.59	0.51
5	6mm SolarPro 338 on Grey	Grey	20	7	19	20	7	5.26	4.66	0.47	0.40
6	6mm SolarPro 331 on Grey	Grey	15	7	23	15	8	4.97	4.34	0.41	0.35
7	6mm SolarPro 760 on Light Grey	Light Grey	45	7	13	40	6	5.72	5.15	0.65	0.56
8	6mm SolarPro 738 on Light Grey	Light Grey	28	10	19	25	8	5.26	4.66	0.50	0.43
9	6mm SolarPro 731 on Light Grey	Light Grey	22	11	23	19	9	4.97	4.34	0.44	0.38

4. Laminated Glass

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	10.38mm Clear	Clear	88	9	9	73	8	5.63	5.08	0.90	0.78
2	13.52mm Clear	Clear	88	9	9	67	7	5.39	4.89	0.86	0.75
3	10.38mm Ultra Clear	Clear	90	9	9	82	8	5.63	5.08	0.98	0.85
4	13.52 mm Ultra Clear	Clear	90	9	9	78	8	5.39	4.89	0.95	0.82
5	10.38mm Green	Green	76	7	8	43	6	5.63	5.08	0.68	0.59
6	13.52 mm Green	Green	73	7	7	37	5	5.39	4.89	0.64	0.55
7	10.38 mm Grey	Grey	50	6	6	45	5	5.63	5.08	0.70	0.60
8	13.52mm Grey	Grey	43	6	6	37	5	5.39	4.89	0.64	0.55
9	10.38 mm Bronze	Bronze	48	6	6	42	5	5.63	5.08	0.67	0.58
10	13.52mm Bronze	Bronze	42	6	6	34	5	5.39	4.89	0.62	0.54
11	10.38 mm Blue	Blue	58	6	6	47	5	5.63	5.08	0.71	0.61
12	13.52mm Blue	Blue	53	6	6	39	5	5.39	4.89	0.66	0.57
13	10.38mm Light Grey	Light Grey	66	7	7	53	6	5.63	5.08	0.76	0.66
14	13.52mm Light Grey	Light Grey	62	6	7	47	6	5.39	4.89	0.71	0.62

5. Vivid Laminated Glass

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Ultra Clear/0.38mm Opaque White PVB/1.14mm PVB/6mm Ultra Clear	White	7	5	5	8	6	5.39	4.89	0.43	0.36
2	6mm Ultra Clear/0.38mm Translucent White PVB/1.14mm PVB/6mm Ultra Clear	White	68	7	7	61	7	5.39	4.89	0.82	0.71
3	6mm Ultra Clear/0.38mm Cool White PVB/1.14mm PVB/6mm Ultra Clear	White	82	8	8	68	7	5.39	4.89	0.88	0.76
4	6mm Ultra Clear/0.38mm Light Grey PVB/1.14mm PVB/6mm Ultra Clear	Grey	45	6	6	52	6	5.39	4.89	0.75	0.65
5	6mm Ultra Clear/0.38mm Dark Grey PVB/1.14mm PVB/6mm Ultra Clear	Grey	29	5	5	40	5	5.39	4.89	0.66	0.57
6	6mm Ultra Clear/0.38mm Super Grey PVB/1.14mm PVB/6mm Ultra Clear	Grey	9	5	5	16	5	5.39	4.89	0.48	0.42
7	6mm Ultra Clear/0.38mm Dark Bronze PVB/1.14mm PVB/6mm Ultra Clear	Bronze	28	5	5	34	5	5.39	4.89	0.62	0.53
8	6mm Ultra Clear/0.38mm Light Bronze PVB/1.14mm PVB/6mm Ultra Clear	Bronze	53	6	6	54	6	5.39	4.89	0.77	0.66
9	6mm Ultra Clear/0.38mm Sky Blue PVB/1.14mm PVB/6mm Ultra Clear	Blue	60	6	6	63	7	5.39	4.89	0.84	0.72
10	6mm Ultra Clear/0.38mm Cool Blue PVB/1.14mm PVB/6mm Ultra Clear	Blue	75	8	8	71	7	5.39	4.89	0.89	0.78
11	6mm Ultra Clear/0.38mm Light Green PVB/1.14mm PVB/6mm Ultra Clear	Green	72	7	7	67	7	5.39	4.89	0.86	0.75
12	6mm Ultra Clear/0.38mm Red PVB /1.14mm PVB/6mm Ultra Clear	Red	51	6	6	67	7	5.39	4.89	0.87	0.75
13	6mm Ultra Clear/0.38mm Gold PVB /1.14mm PVB/6mm Ultra Clear	Gold	82	8	8	69	7	5.39	4.89	0.88	0.76

6. EnerFlex Laminated Series

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6.38mm Enerflex Clear	Clear	82	10	11	63	9	3.73	2.91	0.79	0.68
2	8.38mm Enerflex Clear	Clear	81	10	11	61	8	3.70	2.89	0.77	0.67
3	10.38mm Enerflex Clear	Clear	81	10	11	59	8	3.67	2.88	0.75	0.65
4	13.52mm Enerflex Clear	Clear	80	10	11	56	8	3.56	2.81	0.72	0.63
5	10.38mm Ultra Clear with Enerflex Clear	Clear	82	10	11	62	9	3.67	2.88	0.78	0.68
6	13.52mm Ultra Clear with Enerflex Clear	Clear	81	10	11	60	8	3.56	2.81	0.76	0.66
7	10.38mm Green with Enerflex Clear	Green	69	8	10	36	6	3.67	2.88	0.55	0.47
8	13.52mm Green with Enerflex Clear	Green	66	8	9	31	6	3.56	2.81	0.52	0.44
9	10.38mm Grey with Enerflex Clear	Grey	46	6	8	36	6	3.67	2.88	0.55	0.47
10	13.52mm Grey with Enerflex Clear	Grey	40	6	8	30	5	3.56	2.81	0.50	0.43
11	10.38mm Bronze with Enerflex Clear	Bronze	44	6	8	33	6	3.67	2.88	0.53	0.45
12	13.52mm Bronze with Enerflex Clear	Bronze	38	6	8	28	5	3.56	2.81	0.49	0.42
13	10.38mm Blue with Enerflex Clear	Blue	53	7	9	38	6	3.67	2.88	0.57	0.49
14	13.52mm Blue with Enerflex Clear	Blue	48	6	8	33	5	3.56	2.81	0.53	0.45
15	10.38mm Light Grey with Enerflex Clear	Light Grey	60	7	9	43	6	3.67	2.88	0.61	0.53
16	13.52mm Light Grey with Enerflex Clear	Light Grey	57	7	9	39	6	3.56	2.81	0.58	0.50
17	10.38mm EnerFlex Neutral	Neutral	72	9	10	49	8	3.97	3.23	0.67	0.58
18	13.52mm EnerFlex Neutral	Neutral	71	8	10	47	7	3.84	3.15	0.66	0.56
19	10.38mm Ultra Clear with EnerFlex Neutral	Neutral	72	9	10	52	9	3.97	3.23	0.70	0.60
20	13.52mm Ultra Clear with EnerFlex Neutral	Neutral	72	8	10	50	8	3.84	3.15	0.68	0.59
21	10.38mm Green with EnerFlex Neutral	Green	62	7	9	31	6	3.97	3.23	0.52	0.44
22	13.52mm Green with EnerFlex Neutral	Green	59	7	9	27	5	3.84	3.15	0.49	0.42
23	10.38mm Grey with EnerFlex Neutral	Grey	41	6	8	30	6	3.97	3.23	0.51	0.43
24	13.52mm Grey with EnerFlex Neutral	Grey	35	5	7	25	5	3.84	3.15	0.48	0.41
25	10.38mm Bronze with EnerFlex Neutral	Bronze	39	6	8	28	6	3.97	3.23	0.49	0.42
26	13.52mm Bronze with EnerFlex Neutral	Bronze	34	5	7	23	5	3.84	3.15	0.46	0.39
27	10.38mm Blue with EnerFlex Neutral	Blue	47	6	8	32	6	3.97	3.23	0.53	0.45
28	13.52mm Blue with EnerFlex Neutral	Blue	43	6	8	28	5	3.84	3.15	0.50	0.43
29	10.38mm Light Grey with EnerFlex Neutral	Light Grey	54	6	8	36	6	3.97	3.23	0.56	0.48
30	13.52mm Light Grey with EnerFlex Neutral	Light Grey	50	6	8	32	6	3.84	3.15	0.54	0.46
31	10.38mm EnerFlex Grey	Light Grey	49	6	8	34	7	4.44	3.79	0.56	0.48
32	13.52mm EnerFlex Grey	Light Grey	49	6	8	32	6	4.28	3.67	0.55	0.47
33	10.38mm Grey with EnerFlex Grey	Grey	28	5	7	20	5	4.44	3.79	0.45	0.39
34	13.52mm Grey with EnerFlex Grey	Grey	24	5	7	17	5	4.28	3.67	0.44	0.37

6. EnerFlex Laminated Series

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
35	10.38mm Light Grey with EnerFlex Grey	Grey	37	5	7	25	5	4.44	3.79	0.49	0.42
36	13.52mm Light Grey with EnerFlex Grey	Grey	35	5	7	22	5	4.28	3.67	0.48	0.41

7. Solar Resistant Lam Series

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	13.52mm with 0.76SR PVB Clear	Clear	74	8	8	34	6	5.39	4.89	0.62	0.53
2	13.52mm with 0.76SR PVB Ultra Clear	Clear	76	8	8	37	6	5.39	4.89	0.64	0.55
3	13.52mm with 0.76SR PVB Green	Green	62	6	7	24	5	5.39	4.89	0.54	0.47
4	13.52mm with 0.76SR PVB Grey	Grey	37	5	5	18	5	5.39	4.89	0.50	0.41
5	13.52mm with 0.76SR PVB Bronze	Bronze	35	5	5	17	5	5.39	4.89	0.49	0.42
6	13.52mm with 0.76SR PVB Blue	Blue	45	5	6	21	4	5.39	4.89	0.53	0.45
7	13.52 mm with 0.76SR PVB Light Grey	Light Grey	53	6	6	24	5	5.39	4.89	0.55	0.47
8	13.52mm with 0.76SR PVB Enerflex Clear	Neutral	67	8	10	31	6	3.56	2.81	0.51	0.43
9	13.52mm with 0.76SR PVB Grey with Enerflex Clear	Grey	34	5	8	16	5	3.56	2.81	0.38	0.32
10	13.52mm with 0.76SR PVB Light Grey with Enerflex Clear	Light Grey	48	6	8	22	5	3.56	2.81	0.43	0.37
11	13.52mm with Solarpro131 with 0.76SR PVB with Enerflex Clear	Grey	23	17	18	10	15	3.56	2.81	0.31	0.26
12	13.52mm with 0.76SR PVB EnerFlex Neutral	Neutral	60	7	9	27	6	3.84	3.15	0.49	0.42
13	13.52mm with 0.76SR PVB Light Grey with EnerFlex Neutral	Grey	30	5	7	14	5	3.84	3.15	0.38	0.33
14	13.52mm with 0.76SR PVB Grey with EnerFlex Neutral	Grey	42	6	8	19	5	3.84	3.15	0.42	0.36
15	13.52mm with Solarpro131 with 0.76SR PVB Light Grey with Enerflex Neutral	Grey	21	17	15	9	15	3.84	3.15	0.31	0.26
16	13.52mm with 0.76SR PVB EnerFlex Grey	Grey	41	6	8	19	5	4.28	3.67	0.44	0.38
17	13.52mm with 0.76SR PVB Grey with EnerFlex Grey	Grey	21	5	7	10	4	4.28	3.67	0.38	0.32
18	13.52mm with 0.76SR PVB Light Grey with EnerFlex Grey	Grey	29	5	7	13	5	4.28	3.67	0.40	0.34

8. IGU- Super Bendable Series

Makeup: 6mm Substrate (Low-E#2)+12mm Argonspacer+6mm Clear

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Super S1-1 on Clear	Neutral	79	13	13	49	19	1.50	1.46	0.64	0.55
2	6mm Super S3-1 on Clear	Bluegrey	51	20	11	31	22	1.55	1.53	0.43	0.37

8. IGU- Super Bendable Series

Makeup: 6mm Substrate (Low-E#2)+12mm Argonspacer+6mm Clear

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
3	6mm Super S7-1 on Clear	Light Blue	58	18	11	37	20	1.54	1.51	0.50	0.43
4	6mm Super S8-1 on Clear	Light Grey	46	15	13	29	22	1.45	1.39	0.40	0.34
5	6mm Super D1-1 on Clear	Neutral	71	11	12	36	28	1.39	1.30	0.47	0.41
6	6mm Super D2-1 on Clear	Neutral	64	11	13	32	27	1.39	1.30	0.42	0.36
7	6mm Super D3-1 on Clear	Light Blue	57	17	22	28	25	1.38	1.28	0.38	0.33
8	6mm Super D4-1 on Clear	Light Blue	53	17	14	24	33	1.39	1.30	0.33	0.28
9	6mm Super D5-1 on Clear	Grey	47	7	15	22	17	1.37	1.27	0.31	0.27
10	6mm Super D6-1 on Clear	Light Grey	44	16	20	22	27	1.39	1.30	0.30	0.26
11	6mm Super T1-1 on Clear	Neutral	68	13	15	27	40	1.37	1.27	0.34	0.30
12	6mm Super T2-1 on Clear	Neutral	61	12	16	23	38	1.37	1.27	0.31	0.27
13	6mm Super T3-1 on Clear	Light Green	54	12	16	20	36	1.38	1.28	0.27	0.24
14	6mm Super T4-1 on Clear	Light Grey	48	10	15	19	28	1.37	1.27	0.26	0.23

9. IGU- Double Low-E Series

Makeup: 6mm Substrate (Low-E#2)+12mm Argonspacer+6mm Clear

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Visualite 78-1 on Clear	Neutral	68	10	12	34	33	1.38	1.29	0.44	0.38
2	6mm Visualite 67-1 on Clear	Neutral	63	13	13	31	36	1.36	1.26	0.40	0.35
3	6mm Aqua Shade 60-1 on Clear	Light Blue	59	16	14	27	40	1.37	1.27	0.35	0.31
4	6mm Cool Shade 57-1 on Clear	Light Grey	53	15	12	25	35	1.37	1.27	0.34	0.29
5	6mm Cool Shade 42-1 on Clear	Grey	43	13	11	21	35	1.38	1.29	0.28	0.24
6	6mm Plati Shade 39-1 on Clear	Silver Grey	41	20	16	19	39	1.36	1.27	0.26	0.22
7	6mm Cool Shade 30-1 on Clear	Silver Grey	31	19	12	15	36	1.39	1.30	0.22	0.19
8	6mm Visualite 78-0 on Ultra Clear	Neutral	70	10	12	37	37	1.38	1.29	0.45	0.39
9	6mm Visualite 67-0 on Ultra Clear	Neutral	66	11	12	36	36	1.36	1.26	0.41	0.35
10	6mm Aqua Shade 60-0 on Ultra Clear	Light Blue	61	16	14	29	46	1.37	1.27	0.36	0.31
11	6mm Cool Shade 57-0 on Ultra Clear	Light Grey	54	15	11	27	39	1.37	1.27	0.34	0.30
12	6mm Cool Shade 42-0 on Ultra Clear	Grey	44	14	11	22	39	1.38	1.29	0.29	0.25
13	6mm Plati Shade 39-0 on Ultra Clear	Silver Grey	43	22	16	20	43	1.36	1.27	0.26	0.23
14	6mm Cool Shade 30-0 on Ultra Clear	Silver Grey	32	19	12	16	40	1.39	1.30	0.22	0.19
15	6mm Visualite 78-2 on Green	Green	57	8	11	23	8	1.38	1.29	0.33	0.29
16	6mm Visualite 67-2 on Green	Green	51	8	11	21	8	1.36	1.26	0.31	0.27

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
17	6mm Aqua Shade 60-2 on Green	Green	49	12	13	19	10	1.37	1.27	0.28	0.24
18	6mm Cool Shade 57-2 on Green	Green	43	11	10	17	10	1.37	1.27	0.27	0.23
19	6mm Cool Shade 42-2 on Green	Green	36	10	11	14	9	1.38	1.29	0.23	0.20
20	6mm Plati Shade 39-2 on Green	Grey	34	16	15	13	11	1.36	1.27	0.22	0.19
21	6mm Cool Shade 30-2 on Green	Green	25	14	11	10	11	1.39	1.30	0.19	0.16
22	6mm Visualite 78-3 on Grey	Grey	34	5	10	18	13	1.38	1.29	0.28	0.24
23	6mm Visualite 67-3 on Grey	Grey	30	5	10	16	13	1.36	1.26	0.25	0.22
24	6mm Aqua Shade 60-3 on Grey	Grey	29	7	12	14	15	1.37	1.27	0.23	0.20
25	6mm Cool Shade 57-3 on Grey	Grey	26	7	10	13	13	1.37	1.27	0.22	0.19
26	6mm Cool Shade 42-3 on Grey	Grey	21	6	10	10	13	1.38	1.29	0.19	0.16
27	6mm Plati Shade 39-3 on Grey	Grey	20	8	15	9	14	1.36	1.27	0.18	0.15
28	6mm Cool Shade 30-3 on Grey	Grey	15	8	11	7	14	1.39	1.30	0.16	0.14
29	6mm Visualite 78-6 on Blue	Blue	41	7	11	21	12	1.38	1.29	0.31	0.28
30	6mm Visualite 67-6 on Blue	Blue	39	7	11	20	12	1.36	1.26	0.28	0.24
31	6mm Aqua Shade 60-6 on Blue	Blue	36	9	13	17	14	1.37	1.27	0.26	0.22
32	6mm Cool Shade 57-6 on Blue	Blue	32	8	11	16	13	1.37	1.27	0.24	0.21
33	6mm Cool Shade 42-6 on Blue	Blue	26	8	11	13	13	1.38	1.29	0.21	0.18
34	6mm Plati Shade 39-6 on Blue	Blue	26	11	15	11	14	1.36	1.27	0.20	0.17
35	6mm Cool Shade 30-6 on Blue	Blue	19	8	12	9	14	1.39	1.30	0.17	0.15
36	6mm Visualite 78-7 on Light Grey	Light Grey	48	7	10	24	16	1.38	1.29	0.34	0.29
37	6mm Visualite 67-7 on Light Grey	Light Grey	43	7	11	21	16	1.36	1.26	0.31	0.27
38	6mm Aqua Shade 60-7 on Light Grey	Light Grey	42	10	12	19	19	1.37	1.27	0.28	0.24
39	6mm Cool Shade 57-7 on Light Grey	Light Grey	37	9	10	18	17	1.37	1.27	0.27	0.23
40	6mm Cool Shade 42-7 on Light Grey	Light Grey	30	9	10	14	17	1.38	1.29	0.23	0.20
41	6mm Plati Shade 39-7 on Light Grey	Light Grey	29	13	15	13	19	1.36	1.27	0.21	0.18
42	6mm Cool Shade 30-7 on Light Grey	Light Grey	21	11	11	10	18	1.39	1.30	0.18	0.16

10. IGU- Triple Low-E Series

Makeup: 6mm Substrate (Low-E#2)+12mm Argonspacer+6mm Clear

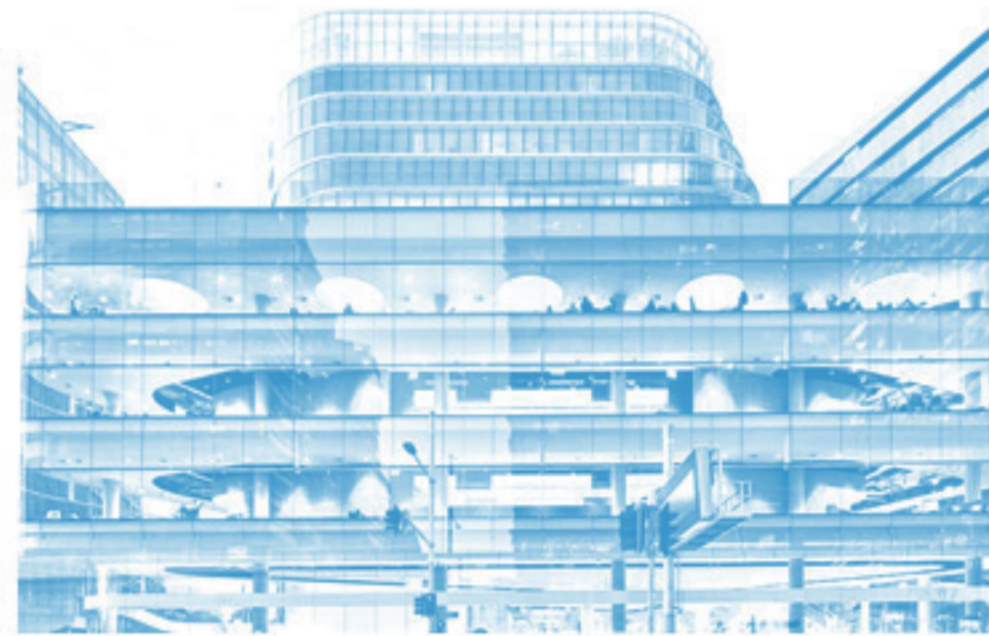
NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Visualite 70S-1 on Clear	Neutral	64	11	14	26	39	1.32	1.21	0.33	0.29
2	6mm Visualite 65S-1 on Clear	Neutral	61	11	12	25	41	1.34	1.23	0.32	0.28
3	6mm Super Shade 52S-1 on Clear	Light Grey	49	16	12	21	42	1.34	1.23	0.27	0.23
4	6mm Cool Shade 40S-1 on Clear	Light Grey	42	18	13	17	42	1.36	1.26	0.23	0.20

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
5	6mm Visualite 70S-0 on Ultra Clear	Neutral	66	12	14	27	44	1.32	1.21	0.33	0.29
6	6mm Visualite 65S-0 on Ultra Clear	Neutral	63	12	14	26	47	1.34	1.23	0.32	0.28
7	6mm Super Shade 52S-0 on Ultra Clear	Light Grey	50	16	12	21	48	1.34	1.23	0.27	0.24
8	6mm Cool Shade 40S-0 on Ultra Clear	Light Grey	43	19	13	17	47	1.36	1.26	0.23	0.20
9	6mm Visualite 70S-2 on Green	Green	53	9	13	19	10	1.32	1.21	0.28	0.24
10	6mm Visualite 65S-2 on Green	Green	51	9	13	18	10	1.34	1.23	0.27	0.24
11	6mm Super Shade 52S-2 on Green	Green	40	12	11	15	10	1.34	1.23	0.23	0.20
12	6mm Cool Shade 40S-2 on Green	Green	35	14	13	12	12	1.36	1.26	0.21	0.18
13	6mm Visualite 70S-3 on Grey	Grey	31	6	12	13	15	1.32	1.21	0.21	0.18
14	6mm Visualite 65S-3 on Grey	Grey	30	6	12	13	16	1.34	1.23	0.21	0.18
15	6mm Super Shade 52S-3 on Grey	Grey	24	7	11	10	16	1.34	1.23	0.18	0.16
16	6mm Cool Shade 40S-3 on Grey	Grey	21	8	13	8	16	1.36	1.26	0.16	0.14
17	6mm Visualite 70S-6 on Blue	Blue	38	7	12	16	14	1.32	1.21	0.25	0.21
18	6mm Visualite 65S-6 on Blue	Blue	37	7	12	16	14	1.34	1.23	0.24	0.21
19	6mm Super Shade 52S-6 on Blue	Blue	29	9	12	13	15	1.34	1.23	0.21	0.18
20	6mm Cool Shade 40S-6 on Blue	Blue	25	9	13	10	15	1.36	1.26	0.18	0.16
21	6mm Visualite 70S-7 on Light Grey	Light Grey	45	8	13	18	19	1.32	1.21	0.26	0.23
22	6mm Visualite 65S-7 on Light Grey	Light Grey	43	8	12	18	20	1.34	1.23	0.26	0.22
23	6mm Super Shade 52S-7 on Light Grey	Light Grey	34	10	11	14	20	1.34	1.23	0.22	0.19
24	6mm Cool Shade 40S-7 on Light Grey	Light Grey	30	11	13	12	21	1.36	1.26	0.19	0.17

11. IGU-UniQ Shade Low-E Series

Makeup: 6mm Substrate (Low-E#2)+12mm Argonspacer+6mm Clear

NO.	DESCRIPTION OF SAMPLE	Color	Visible Light (%)			Solar Energy (%)		U-Value(w/m2.°C)		Shading Coefficient	SHGC
			Transmission	Reflectance		Transmission	Reflectance Out	Winter Night	Summer Daylight		
				Outdoor	Indoor						
1	6mm Champagne 46-1 on Clear	Champagne	41	20	18	22	29	1.47	1.41	0.31	0.27
2	6mm Champagne 40-1 on Clear	Bronze	37	10	13	18	30	1.42	1.34	0.26	0.23
3	6mm Aqua Shade 44-1 on Clear	Blue	42	19	12	19	39	1.41	1.34	0.26	0.22
4	6mm Sky Blue 43-1 on Clear	Blue	43	20	14	19	37	1.36	1.26	0.26	0.22
5	6mm Sky Blue 35-1 on Clear	Blue	29	16	17	14	26	1.39	1.30	0.22	0.19
6	6mm Emeralite 48 on Clear	Emerald	45	17	20	20	28	1.39	1.30	0.28	0.24
7	6mm Super Gold 12 on Clear	Gold	12	14	38	7	27	1.39	1.30	0.14	0.12
8	6mm Super Gold 45 on Clear	Gold	45	18	27	27	26	1.39	1.30	0.36	0.31
9	6mm Purplelite 26-1 on Clear	Purple	27	15	12	12	36	1.41	1.34	0.18	0.16



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