

architectural pty Ltd glass & cladding

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Introduction

Terminology in performance data sheet

Visible Light Transmittance

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

Visible Light Reflectance

The percentage of visible light that is reflected from the glass surface(s).

Solar Transmittance

The percentage of ultraviolet, visible and near infrared energy (300-2500nm) that is transmitted through the glass.

Solar Reflectance

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

ASHRAE U-Value

Based on ASHRAE standards, a measure of the heat gain or loss through glass due to the difference between the indoor and outdoor temperatures. It is also referred to as the overall coefficient of heat transfer.

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 shading coefficient, the lower the solar heat gain.

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Remark:

1. The data is based on calculation by Window 5.2 under ASHRAE standard conditions.
2. The actual performance data of products may slightly differ from the above data.

Table 1 Monolistic Clear Float Glass

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)		Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor	Witer Night	Summer Daylight	
			Outdoor	Indoor					
1	3C	91	9	9	87	8	6.1	5.5	1.02
2	4C	90	9	9	86	8	6.1	5.5	1.01
3	5C	90	9	9	85	8	6.0	5.4	1.00
4	6C	90	9	8	83	8	6.0	5.4	0.99
5	8C	89	8	8	81	8	5.9	5.3	0.97
6	10C	88	8	8	78	7	5.8	5.3	0.95
7	12C	88	8	8	76	7	5.8	5.2	0.93
8	15C	86	8	8	73	7	5.7	5.1	0.91
9	19C	85	8	8	69	7	5.6	5.0	0.87

Table 2 Monolistic Body Tint Glass

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)		Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor	Witer Night	Summer Daylight	
			Outdoor	Indoor					
1	3F	83	8	8	61	6	6.1	5.5	0.80
2	4F	80	8	7	53	6	6.1	5.5	0.75
3	5F	77	7	7	48	6	6.0	5.4	0.70
4	6F	75	7	7	43	6	6.0	5.4	0.67
5	8F	70	7	7	36	5	5.9	5.3	0.61
6	10F	65	6	6	31	5	5.8	5.3	0.57
7	12F	61	6	6	27	5	5.8	5.2	0.54
8	6Grey	44	5	5	44	5	6.0	5.4	0.67

Table 3 Laminated Glass

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)		Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor	Witer Night	Summer Daylight	
			Outdoor	Indoor					
1	3C/0.38PVB/3C	90	8	8	81	8	5.9	5.3	0.97
2	4C/0.38PVB/4C	89	9	9	78	8	5.9	5.3	0.95
3	5C/0.38PVB/5C	88	8	8	76	7	5.8	5.2	0.93
4	6C/0.38PVB/6C	88	8	8	74	7	5.7	5.2	0.91
5	3C/0.76PVB/3C	90	8	8	80	8	5.9	5.3	0.96
6	4C/0.76PVB/4C	89	9	9	77	8	5.8	5.2	0.93
7	5C/0.76PVB/5C	88	8	8	75	7	5.7	5.2	0.92
8	6C/0.76PVB/6C	88	8	8	71	7	5.5	5.0	0.89

Table 4 Insulating Glass * Low-E

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)	Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor		
			Outdoor	Indoor				
1	6CEB11-58 on clear +12A+6C	54	13	13	36	24	1.8	0.47
2	6CEB21-58 on green +12A+6C	45	10	12	21	9	1.8	0.33
3	6CEB31-58 on grey +12A+6C	26	6	12	18	10	1.8	0.30
4	6CEB51-58 K-blue +12A+6C	34	8	12	21	10	1.8	0.33
5	6CEB14-50 on clear +12A+6C	48	18	10	31	26	1.8	0.42
6	6CEB24-50 on green +12A+6C	40	15	10	19	11	1.8	0.30
7	6CEB34-50 on grey +12A+6C	24	8	10	16	11	1.8	0.27
8	6CEB54-50 K-blue +12A+6C	30	10	10	18	11	1.8	0.30
9	6CEB14-60 on clear +12A+6C	55	15	10	36	23	1.8	0.48
10	6CEB24-60 on green +12A+6C	46	12	10	22	9	1.8	0.33
11	6CEB34-60 on grey +12A+6C	27	7	10	19	10	1.8	0.30
12	6CEB54-60 K-blue +12A+6C	34	9	10	21	10	1.8	0.33
13	6CEB22-60 on green +12A+6C	46	18	14	21	12	1.8	0.32
14	6CEB23-63 on green +12A+6C	47	19	13	23	12	1.8	0.34
15	6CEF13-69 on clear +12A+6C	62	16	11	39	29	1.8	0.51
16	6CEF23-69 on green +12A+6C	52	13	11	24	10	1.8	0.35
17	6CEF33-69 on grey +12A+6C	31	7	10	20	12	1.8	0.31
18	6CEF53-69S+12A+6C	39	9	10	23	12	1.8	0.34
19	6CEF25-40 K-blue +12A+6C	30	20	11	14	13	1.8	0.24
20	6CES11-70 on clear +12A+6C	65	12	11	43	23	1.8	0.55
21	6CES21-70 on green +12A+6C	54	10	11	26	8	1.8	0.38
22	6CES31-70 on grey +12A+6C	32	6	10	22	10	1.8	0.34
23	6CES51-70 K-blue +12A+6C	41	7	10	25	10	1.8	0.37
24	6CES11-80 on clear +12A+6C	73	12	12	47	25	1.8	0.60
25	6CES21-80 on green +12A+6C	60	10	11	29	9	1.8	0.41
26	6CES31-80 on grey +12A+6C	36	6	10	24	11	1.8	0.36
27	6CES51-80 K-blue +12A+6C	46	8	10	28	11	1.8	0.40
28	6CES11-85 on clear +12A+6C	76	12	12	51	24	1.8	0.64
29	6CES21-85 on green +12A+6C	63	10	11	30	9	1.8	0.42
30	6CES31-85 on grey +12A+6C	37	6	10	26	10	1.8	0.38
31	6CES51-85 K-blue +12A+6C	48	8	11	30	10	1.8	0.42
32	6CEV11-40 on clear +12A+6C	38	16	18	25	25	1.8	0.36
33	6CEV21-40 on green +12A+6C	32	13	17	15	9	1.8	0.27
34	6CEV31-40 on grey +12A+6C	19	7	17	13	19	1.8	0.24
35	6CEV51-40 K-blue +12A+6C	24	9	17	15	11	1.8	0.26
36	6CEV11-42 on clear +12A+6C	42	19	12	27	26	1.8	0.38
37	6CEV21-42 on green +12A+6C	35	15	12	17	10	1.8	0.28
38	6CEV31-42 on grey +12A+6C	20	8	12	14	11	1.8	0.25
39	6CEV51-42 K-blue +12A+6C	26	10	12	16	11	1.8	0.28
40	6CEV15-52 on clear +12A+6C	54	16	10	36	24	1.8	0.49
41	6CEV25-52 on green +12A+6C	46	13	10	22	10	1.8	0.34
42	6CEV35-52 on grey +12A+6C	27	7	9	19	10	1.8	0.31
43	6CEV55-52 on K-blue +12A+6C	34	9	10	21	11	1.8	0.33

Table 5 Insulating Glass * Double Silver Low-E

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)	Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor		
			Outdoor	Indoor				
1	6CED12-68 on clear +12A+6C	61	10	14	29	38	1.7	0.38
2	6CED22-68 on green +12A+6C	51	9	13	20	10	1.7	0.31
3	6CED32-68 on grey +12A+6C	30	6	13	15	14	1.7	0.25
4	6CED52-68 on K-blue +12A+6C	39	7	13	18	14	1.7	0.28
5	6CED12-78 on clear +12A+6C	68	9	11	36	31	1.7	0.46
6	6CED22-78 on green +12A+6C	57	8	10	24	9	1.7	0.35
7	6CED32-78 on grey +12A+6C	34	6	10	18	11	1.7	0.29
8	6CED52-78 on K-blue +12A+6C	43	7	10	22	11	1.7	0.33
9	6CED13-39 on clear +12A+6C	36	20	24	18	37	1.7	0.25
10	6CED23-39 on green +12A+6C	30	15	24	13	12	1.7	0.22
11	6CED13-40 on clear +12A+6C	39	17	35	20	29	1.7	0.29
12	6CED23-40 on green +12A+6C	33	13	35	14	10	1.7	0.24
13	6CED33-40 on grey +12A+6C	19	7	35	10	11	1.7	0.20
14	6CED53-40 on K-blue +12A+6C	25	9	35	13	12	1.7	0.22
15	6CED13-58 on clear +12A+6C	52	14	12	28	36	1.7	0.37
16	6CED23-58 on green +12A+6C	44	11	12	18	10	1.7	0.29
17	6CED33-58 on grey +12A+6C	26	7	12	14	13	1.7	0.24
18	6CED53-58 on K-blue +12A+6C	33	8	12	17	13	1.7	0.27

Table 6 Monolithic Glass * Solar Reflective

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)		Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor	Witer Night	Summer Daylight	
			Outdoor	Indoor					
1	6CPA114S	13	22	46	12	20	4.7	4.0	0.32
2	6CPA214F	11	17	46	6	10	4.7	4.0	0.29
3	6CPA314	7	9	47	7	9	4.8	4.2	0.31
4	6CSY120S	18	26	35	18	22	5.1	4.5	0.38
5	6CSY220F	15	19	35	9	11	5.1	4.5	0.34
6	6CSY320F	9	10	35	9	9	5.1	4.5	0.34
7	6CSY130S	29	15	26	27	13	5.4	4.8	0.49
8	6CSY230F	25	12	26	14	8	5.4	4.8	0.40
9	6CSY330F	14	7	26	14	7	5.4	4.8	0.41
10	6CSY150AS	52	12	14	48	9	5.7	5.2	0.69
11	6CSY250SF	43	10	14	25	7	5.7	5.2	0.51
12	6CSY350	25	6	13	25	6	5.7	5.2	0.51
13	6CTL140S	39	20	21	32	16	5.3	4.7	0.52
14	6CTL240F	32	16	21	17	9	5.3	4.7	0.42
15	6CTL340F	19	8	21	16	8	5.3	4.7	0.41
16	6CTL145S	45	16	20	39	12	5.4	4.8	0.59
17	6CTL245F	38	12	19	21	8	5.4	4.8	0.46
18	6CTL345F	23	7	20	20	6	5.6	5.0	0.46
19	6CMG180S	80	18	18	78	14	6.0	5.4	0.92
20	6CMG280F	67	14	17	40	8	6.0	5.4	0.63
21	6CMG380	39	8	17	40	7	6.0	5.4	0.63
22	6CTS120S	20	22	33	14	24	4.6	3.9	0.32
23	6CTS220S	17	17	33	8	10	4.6	3.9	0.30
24	6CTS320S	10	9	33	7	10	4.6	3.9	0.30
25	6CTS130S	30	17	29	23	18	5.1	4.4	0.43
26	6CTS230S	25	13	29	13	9	5.1	4.4	0.37
27	6CTS330S	15	7	29	12	8	5.1	4.4	0.37
28	6CSS120SA	25	20	29	20	19	5.1	4.4	0.40
29	6CSS220S	21	15	29	11	9	5.1	4.4	0.35
30	6CSS320S	12	8	28	11	8	5.1	4.4	0.35
31	6CSS130S	30	14	26	25	13	5.3	4.7	0.47
32	6CSS230S	25	11	26	13	7	5.3	4.7	0.39
33	6CSS330S	14	7	26	13	7	5.3	4.7	0.39
34	6CEL170S	68	12	15	66	9	6.0	5.4	0.84
35	6CEL270F	57	10	14	34	7	6.0	5.4	0.58
36	6CEL370	34	6	13	34	6	6.0	5.4	0.51

Table 7 Insulating glass * Solar Reflective

NO.	DESCRIPTION OF SAMPLE	Visible Light(%)			Solar Energy(%)		U-Value(w/m2.°C)		Shading Coefficient
		Transmission	Reflectance		Transmission	Reflectance Outdoor	Witer Night	Summer Daylight	
			Outdoor	Indoor					
1	6CSY120S+12A+6C	17	26	37	15	22	2.5	2.6	0.28
2	6CSY220F+12A+6C	14	19	37	8	11	2.5	2.6	0.23
3	6CSY320F+12A+6C	8	10	37	8	9	2.5	2.6	0.23
4	6CSY130S+12A+6C	27	16	29	23	14	2.6	2.7	0.39
5	6CSY230F+12A+6C	22	13	29	13	8	2.6	2.7	0.28
6	6CSY330F+12A+6C	13	7	29	12	7	2.6	2.7	0.28
7	6CTL140S+12A+6C	35	21	25	27	17	2.5	2.7	0.42
8	6CTL240F+12A+6C	29	17	25	15	10	2.5	2.7	0.30
9	6CTL340F+12A+6C	17	9	26	14	8	2.5	2.7	0.29
10	6CTL145S+12A+6C	41	17	24	33	13	2.6	2.7	0.49
11	6CTL245F+12A+6C	34	14	24	18	8	2.6	2.7	0.34
12	6CTL345F+12A+6C	21	8	25	17	7	2.6	2.8	0.34
13	6CTS120S+12A+6C	19	23	36	12	24	2.3	2.4	0.24
14	6CTS220S+12A+6C	16	17	36	7	11	2.3	2.4	0.20
15	6CTS320S+12A+6C	9	9	36	6	10	2.3	2.4	0.20
16	6CTS130S+12A+6C	27	17	32	20	19	2.5	2.6	0.34
17	6CTS230S+12A+6C	23	14	32	11	9	2.5	2.6	0.26
18	6CTS330S+12A+6C	13	7	32	11	8	2.5	2.6	0.25
19	6CSS120S+12A+6C	23	20	32	18	19	2.5	2.6	0.31
20	6CSS220S+12A+6C	19	16	32	10	10	2.5	2.6	0.24
21	6CSS320S+12A+6C	11	8	32	9	9	2.5	2.6	0.24
22	6CSS130S+12A+6C	27	15	30	21	14	2.5	2.7	0.36
23	6CSS230S+12A+6C	23	12	30	12	8	2.5	2.7	0.27
24	6CSS330S+12A+6C	13	7	30	11	7	2.5	2.7	0.27
25	6CSS120SA+12A+6CES11-80S(3#)	20	20	26	13	20	1.8	1.8	0.25
26	6CSY130S+12A+6CES11-80S(3#)	24	16	24	16	15	1.8	1.8	0.30
27	6CSY150S+12A+6CED12-68S(3#)	34	13	15	16	20	1.7	1.7	0.32
28	6Bronze+12A+6CED13-40S(3#)	23	16	16	12	21	1.7	1.7	0.27