

PERFORMANCE SPECIFICATIONS

THICKNESS MM	SPECIFICATION	LIGHT PROPERTIES%			SOLAR ENERGY%				RW VALUE	U VALUE		SHGC	SC
		Trans	Refl Out	Refl In	Trans	Rfsol	Rbsol	Abs1		In Winter	In Summer		
MONOLITHIC FLOAT													
3	CLEAR	90.9	8.2	8.2	86.0	7.6	7.6	6.4	30	5.92	5.34	0.88	1.00
4	CLEAR	90.4	8.2	8.2	84.0	7.6	7.6	8.4	30	5.88	5.31	0.87	0.99
5	CLEAR	89.5	8.6	8.6	81.4	7.8	7.8	10.8	31	5.85	5.28	0.85	0.97
6	CLEAR	89.4	8.2	8.2	80.7	7.2	7.2	12.1	31	5.81	5.25	0.84	0.97
8	CLEAR	88.9	8.6	8.6	77.8	7.6	7.6	14.6	34	5.75	5.19	0.82	0.95
10	CLEAR	87.6	8.1	8.1	75.2	7.0	7.0	17.8	35	5.68	5.13	0.81	0.93
12	CLEAR	86.9	7.9	7.9	72.2	6.7	6.7	21.0	37	5.61	5.07	0.79	0.91
15	CLEAR	85.0	8.2	8.2	68.7	7.0	7.0	24.3		5.51	4.99	0.76	0.88
19	CLEAR	83.3	7.5	7.5	61.3	6.2	6.2	32.5		5.39	4.89	0.72	0.82
3.2	LOW IRON	91.8	8.4	8.4	90.7	8.2	8.2	1.2		5.91	5.33	0.91	1.05
4	LOW IRON	91.6	8.9	8.9	89.9	8.7	8.7	1.3		5.88	5.31	0.91	1.05
5	LOW IRON	91.4	8.1	8.1	89.5	7.9	7.9	2.1		5.85	5.28	0.91	1.04
6	LOW IRON	91.1	8.1	8.1	89.3	8.0	8.0	2.7		5.81	5.24	0.90	1.04
8	LOW IRON	90.8	7.9	7.9	88.5	7.8	7.8	3.7		5.75	5.19	0.90	1.03
10	LOW IRON	90.6	8.1	8.1	87.7	7.9	7.9	4.4		5.68	5.13	0.89	1.02
12	LOW IRON	90.2	8.4	8.4	86.5	8.2	8.2	5.3		5.62	5.08	0.88	1.01
15	LOW IRON	90.1	8.0	8.0	86.0	8.0	8.0	6.0		5.46	4.95	0.88	1.01
19	LOW IRON	89.7	8.0	8.0	84.0	8.0	8.0	8.0		5.33	4.84	0.87	0.99
3	EURO GREY	62.9	6.2	6.2	61.3	6.1	6.1	32.6		5.90	5.32	0.71	0.82
4	EURO GREY	57.4	6.1	6.3	58.7	6.2	6.3	35.1		5.89	5.31	0.69	0.80
5	EURO GREY	48.9	5.6	5.8	49.5	5.6	5.8	44.9		5.85	5.28	0.63	0.73
6	EURO GREY	45.8	5.4	5.6	47.0	5.5	5.6	47.5		5.82	5.25	0.62	0.71
8	EURO GREY	36.8	5.0	5.3	38.5	5.1	5.3	56.5		5.75	5.19	0.56	0.65
10	EURO GREY	24.2	4.6	4.9	24.0	4.5	4.8	71.5		5.68	5.13	0.47	0.54
12	EURO GREY	18.0	4.5	4.5	18.0	4.4	4.4	77.6		5.61	5.07	0.43	0.50
3	F GREEN	81.7	7.6	7.6	57.5	6.1	6.0	36.4		5.91	5.33	0.69	0.79
4	F GREEN	79.8	7.5	7.4	52.9	5.9	5.8	41.2		5.88	5.31	0.66	0.75
5	F GREEN	76.8	7.3	7.3	47.0	5.7	5.7	47.2		5.85	5.28	0.62	0.71
6	F GREEN	75.4	7.3	7.1	44.2	6.2	6.0	49.6		5.81	5.25	0.60	0.68
8	F GREEN	70.1	7.2	7.2	35.8	5.4	5.3	58.8		5.74	5.19	0.54	0.63
10	F GREEN	64.5	6.4	6.4	30.0	5.0	5.0	65.1		5.67	5.13	0.51	0.58
12	F GREEN	60.2	6.3	6.3	26.0	5.0	5.0	69.0		5.61	5.07	0.48	0.55
3	EURO BRONZE	68.3	6.4	6.4	68.4	6.3	6.3	25.2		5.92	5.34	0.76	0.87
4	EURO BRONZE	54.2	5.9	6.1	54.7	5.9	6.1	39.4		5.89	5.31	0.67	0.77
5	EURO BRONZE	47.4	5.5	5.7	49.8	5.6	5.8	44.6		5.85	5.28	0.64	0.73
6	EURO BRONZE	42.5	5.4	5.3	44.4	5.5	5.3	50.1		5.82	5.25	0.60	0.69
8	EURO BRONZE	33.9	5.2	5.0	33.0	5.1	4.9	62.0		5.74	5.18	0.53	0.60
10	EURO BRONZE	23.7	4.6	5.0	26.6	4.6	4.9	68.8		5.68	5.13	0.49	0.56

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		Trans	Refl Out	Refl In	Trans	Rfsol	Rbsol	Abs1		In Winter	In Summer		
12	EURO BRONZE	22.6	5.4	5.4	20.4	5.1	5.1	74.5		5.61	5.07	0.45	0.51
MONOLITHIC COMF-E® SERIES													
3.2	COMF-E ULTRA	83.2	10.6	11.4	71.0	11.0	11.9	17.9		3.74	2.87	0.74	0.85
4	COMF-E ULTRA	83.0	10.0	10.7	69.0	10.7	11.7	20.2		3.63	2.74	0.73	0.83
5	COMF-E ULTRA	82.5	10.6	11.4	66.3	10.9	12.3	22.8		3.71	2.85	0.70	0.81
6	COMF-E ULTRA	82.2	10.4	11.3	64.8	10.6	12.2	24.7		3.69	2.84	0.69	0.80
8	COMF-E ULTRA	81.6	9.7	10.7	64.4	9.8	11.8	25.8		3.66	2.82	0.69	0.80
10	COMF-E ULTRA	80.3	9.4	10.5	60.0	8.9	11.4	31.1		3.63	2.80	0.66	0.76
3.2	COMF-E SOLAR	60.1	7.5	9.2	45.9	7.7	11.7	46.4		3.72	2.85	0.55	0.63
4	COMF-E SOLAR	59.9	7.5	9.2	45.0	7.6	11.7	47.4		3.71	2.85	0.54	0.62
5	COMF-E SOLAR	59.7	7.5	9.2	44.2	7.5	11.6	48.3		3.70	2.84	0.53	0.61
6	COMF-E SOLAR	59.9	7.7	9.3	43.8	7.2	11.7	49.1		3.68	2.83	0.53	0.61
8	COMF-E SOLAR	59.3	7.6	9.2	41.9	6.9	11.6	51.2		3.65	2.81	0.52	0.59
10	COMF-E SOLAR	60.5	8.1	9.5	40.3	7.3	11.9	52.4		3.62	2.79	0.51	0.58
6	COMF-E SY	67.7	8.6	10.2	51.7	9.4	10.5	39.0		4.10	3.36	0.60	0.69
4	COMF-E GREY	50.9	6.9	9.6	46.7	7.6	10.4			3.75	2.90	0.55	0.64
5	COMF-E GREY	44.8	6.3	9.2	41.4	7.0	10.3			3.72	2.87	0.51	0.59
6	COMF-E GREY	39.0	6.0	9.0	7.0	36.0				3.70	2.90	0.47	0.54
6	COMF-E SY GREY	33.0	5.0	9.0	6.0	27.0				4.10	3.30	0.42	0.48
6	COMF-E SOLAR Plus GREY	24.0	5.4	8.5	19.5	5.2	11.0	75.3		3.69	2.84	0.34	0.39
8	COMF-E SOLAR Plus GREY	19.4	5.3	8.1	15.5	5.1	10.7	79.4		3.66	2.83	0.31	0.36
SINGLE GLAZED LAMINATED													
6.38	CLEAR LAMINATED	89.7	8.2	8.2	78.9	7.4	7.4		32	5.77	5.21	0.83	0.95
8.38	CLEAR LAMINATED	88.8	7.8	7.8	76.2	6.9	6.9		33	5.70	5.18	0.81	0.94
10.38	CLEAR LAMINATED	88.3	7.9	7.9	73.5	6.8	6.8		34	5.62	5.09	0.80	0.91
12.38	CLEAR LAMINATED	86.8	8.26	8.26	66.6	6.8	6.8		36	5.55	5.03	0.75	0.86
9.52	LOW IRON LAMINATED	91.1	8.1	8.1	82.1	7.4	7.4		35	5.66	5.11	0.85	0.98
11.52	LOW IRON LAMINATED	90.9	8.1	8.1	81.5	7.4	7.4		36	5.58	5.05	0.85	0.98
13.52	LOW IRON LAMINATED	90.4	8.1	8.1	80	7.4	7.4		37	5.51	4.99	0.84	0.96
17.52	LOW IRON LAMINATED	89.8	7.8	7.8	78.6	7.2	7.2		39	5.38	4.88	0.83	0.95
21.52	LOW IRON LAMINATED	89.5	8	8	77.4	7.2	7.2		40	5.25	4.77	0.82	0.95
25.52	LOW IRON LAMINATED	88.9	8.3	8.3	75.7	7.5	7.5		42	5.13	4.66	0.81	0.93
13.52	CLEAR SGP LAMINATED	85.9	8.26	8.26	63.5	6.7	6.7		37	5.50	4.98	0.73	0.84
17.52	CLEAR SGP LAMINATED	84.4	8.4	8.4	60.9	6.8	6.8		39	5.37	4.87	0.71	0.82
21.52	CLEAR SGP LAMINATED	82.2	8.1	8.1	52.5	6.2	6.2		40	5.24	4.76	0.66	0.76
25.52	CLEAR SGP LAMINATED	79.8	7.2	7.2	51.4	5.6	5.6		42	5.12	4.66	0.66	0.75
6.76	CLEAR ACOUSTIC LAMINATED	89.7	8.2	8.2	78.9	7.4	7.4		36	5.77	5.21	0.83	0.95
8.76	CLEAR ACOUSTIC LAMINATED	88.8	7.8	7.8	74.9	6.9	6.9		37	5.68	5.21	0.82	0.93
10.76	CLEAR ACOUSTIC LAMINATED	88.3	7.9	7.9	73.5	6.8	6.8		38	5.62	5.09	0.80	0.91
12.76	CLEAR ACOUSTIC LAMINATED	86.8	8.26	8.26	66.6	6.8	6.8		39	5.55	5.03	0.75	0.86
6.38	WHT TRANSLUCENT LAMINATED	67.7	6.6	6.6	61.2	6.2	6.2		32	5.77	5.21	0.71	0.82

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		Trans	Refl Out	Refl In	Trans	Rfsol	Rbsol	Abs1		In Winter	In Summer		
10.38	WHT TRANSLUCENT LAMINATED	66.7	6.3	6.3	56.9	5.8	5.8		34	5.62	5.09	0.69	0.79
12.38	WHT TRANSLUCENT LAMINATED	65.5	6.7	6.7	51.4	5.9	5.9		36	5.55	5.03	0.65	0.75
6.38	GREY LAMINATED	43.0	5.3	5.3	51.7	5.7	5.7		32	5.77	5.21	0.65	0.75
10.38	GREY LAMINATED	42.3	5.1	5.1	47.7	5.3	5.3		34	5.62	5.09	0.63	0.72
12.38	GREY LAMINATED	41.6	5.4	5.4	42.4	5.4	5.4		36	5.55	5.03	0.59	0.68
6.38	GREEN LAMINATED	72	7.2	7.2	62.7	6.3	6.3	31	32	5.77	5.21	0.72	0.83
10.38	GREEN LAMINATED	70.9	7.1	7.1	57.8	6	6	36.2	34	5.62	5.09	0.69	0.79
12.38	GREEN LAMINATED	70.2	7.1	7.1	54.6	5.8	5.8	39.6	36	5.55	5.03	0.67	0.77
6.38	BRONZE LAMINATED	54.4	6	6	48.8	5.5	5.5	45.7	32	5.77	5.21	0.63	0.72
10.38	BRONZE LAMINATED	51.8	5.9	5.9	46.4	5.4	5.4	48.2	34	5.62	5.09	0.62	0.71
12.38	BRONZE LAMINATED	51.2	5.9	5.9	43.8	5.3	5.3	50.9	36	5.55	5.03	0.60	0.69
COMF-E® SERIS													
6.38	COMF-E ULTRA LAM#4	84	10.9	10.2	67.6	10.6	8.7	21.9	32	3.68	2.85	0.72	0.82
10.38	COMF-E ULTRA LAM#4	82.7	10.8	10.2	61.3	9.5	11.5	28.2	34	3.60	2.78	0.67	0.77
12.38	COMF-E ULTRA LAM#4	81.9	9.7	10.2	58.4	8.3	11	33	36	3.59	2.80	0.65	0.75
6.38	COMF-E ULTRA GREY LAM#4	42.0	6.0	9.0	42.0	7.0	8.0	51.0	32	3.69	2.73	0.56	0.60
10.38	COMF-E ULTRA GREY LAM#4	41.5	6.0	9.0	36.0	7.0	10.0	57.0	34	3.72	2.86	0.49	0.56
12.38	COMF-E ULTRA GREY LAM#4	41.0	6.0	8.0	35.0	6.0	10.0	59.0	36	3.75	2.89	0.48	0.55
6.38	COMF-E ULTRA BRONZE LAM#4	50.2	6.3	9.2	44.3	6.1	7.6		32	3.62	2.73	0.53	0.61
10.38	COMF-E ULTRA BRONZE LAM#4	50.4	6.3	8.5	43.2	6.6	10.5		34	3.72	2.86	0.53	0.60
12.38	COMF-E ULTRA BRONZE LAM#4	48.5	6.5	8.5	40.3	6.4	11.2		36	3.75	2.89	0.50	0.58
6.38	COMF-E ULTRA GREEN LAM#4	65.3	8.4	10.0	53.0	7.9	10.7		32	3.68	2.84	0.60	0.69
10.38	COMF-E ULTRA GREEN LAM#4	65.1	7.9	9.6	50.0	7.6	11.0		34	3.62	2.80	0.58	0.67
12.38	COMF-E ULTRA GREEN LAM#4	64.7	7.8	9.6	47.0	7.2	11.0		36	3.59	2.78	0.56	0.65
6.76	COMF-E ULTRA Acoustic LAM#4	81	10	11	62	9	8.7		36	3.67	2.83	0.67	0.77
6.38	COMF-E SOLAR LAM#4	57.9	7.3	9.1	40.9	6.8	11.5		32	3.66	2.82	0.51	0.59
10.38	COMF-E SOLAR LAM#4	58.6	7.2	9	39.8	6.6	53.6		34	3.60	2.78	0.50	0.58
12.38	COMF-E SOLAR LAM#4	58.3	7.7	9.2	37.8	6.5	55.7		36	3.56	2.76	0.49	0.56
6.38	COMF-E SKY LAM#4	51	6.5	9.5	43.5	7	11.4		32	3.66	2.81	0.52	0.60
10.38	COMF-E SKY LAM#4	50	6.3	9.2	39.5	6.6	10.6		34	3.55	2.71	0.50	0.57
12.38	COMF-E SKY LAM#4	49.5	6.3	9.1	37.4	6.4	10.5		36	3.52	2.69	0.48	0.56
SMART SINGLE GLAZED LAMINATED													
9.92	SUPERCLEAR SMART GLASS (With Gauzy® Switchable film)	86.2	7.7	7.7	76.8	7.1	7.1		35	5.68	5.13	0.82	0.94
17.92	SUPERCLEAR SMART GLASS (With Gauzy® Switchable film)	84.9	7.5	7.5	73.6	6.9	6.9		39	4.92	5.42	0.80	0.92
DOUBLE GLAZED UNITS													
24	CLEAR DGU(6C/12/6C)	80.2	14.7	17.7	65.6	12.3	12.3		34	2.54	2.71	0.74	0.85
22	GREY DGU(5G/12/5C)	44	7.7	13.3	40.8	7.6	11.7		33	2.56	2.73	0.51	0.59
24	GREY DGU(6G/12/6C)	41.1	7.1	12.4	38.4	7.1	11		34	2.55	2.72	0.50	0.57
24	COMF-E ULTRA(6/12/6)#2	74	16	17.3	53.3	14.1	15.6		34	1.65	1.66	0.61	0.70



Note:

1. The above Landson Glass' performance specifications are created using LNLB Windows 7.4 Software. External conditions are subject to ASHRAE NFRC100-2010 standard (US standard).
2. Information provided for guidance only and should not be treated as a substitute for detailed technical advice. Landson Glass disclaims any liability for loss or damage suffered from the use of such data.
3. U Values in the table are based on Winter climate only.
4. To the best of Landson Glass' knowledge, all information is believed to be true and correct at time of compilation.