



TINTED INSULATED *Versalux*® W/CLEAR

Versalux® Performance Characteristics - Tinted Insulated Glass - Inboard Lite Clear/Both Lites Identical Thickness Except 5/16" (8mm) has 1/4" (6mm) Interior Lite of Clear Float Glass. CALCULATED BY LBNL WINDOW 5.2 v5.2.12 COMPUTER PROGRAM

PRODUCT	Glass Thickness Nominal	Air Space® Thickness Nominal	Transmittance %				Outdoor Reflectance %		Indoor Reflectance %	Customary System Values					Metric Values		
			Total Solar	Visible	Ultra Violet ^e	LSG Ratio ∇	Total Solar	Visible	Visible	U-Value ^a		Shading Coefficient ^b	Solar Heat Gain Coefficient ^c	Relative Heat Gain ^d BTU Ft ²	K-Value ^a		Relative Heat Gain ^d W/m ²
										Winter Nighttime	Summer Daytime				Winter Nighttime	Summer Daytime	
Inch (mm)	Inch (mm)																
Versalux® Blue 2000	1/4" (6mm)	1/2" (12.7mm)	25	38	11	1.00	6	7	12	0.47	0.49	0.44	0.38	94	2.65	2.79	296
			25	38	11	1.03	6	7	12	0.44	0.47	0.43	0.37	93	2.49	2.66	292
	5/16" (8mm)	1/2" (12.7mm)	18	29	7	0.91	5	6	12	0.46	0.49	0.37	0.32	80	2.63	2.77	254
			18	29	7	0.94	5	6	12	0.44	0.47	0.36	0.31	79	2.48	2.65	249
Versalux® Green 2000	1/8" (3mm)	1/4" (6.5mm)	41	69	23	1.35	8	12	14	0.54	0.56	0.59	0.51	126	3.07	3.17	399
			41	69	23	1.35	8	12	14	0.50	0.52	0.59	0.51	125	2.80	2.97	394
	3/16" (5mm)	1/2" (12.7mm)	32	63	16	1.47	7	11	13	0.47	0.50	0.50	0.43	107	2.66	2.81	337
			32	63	16	1.47	7	11	13	0.44	0.47	0.50	0.43	106	2.51	2.68	334
	1/4" (6mm)	1/2" (12.7mm)	28	59	12	1.48	6	10	13	0.47	0.49	0.46	0.40	99	2.65	2.79	311
		28	59	12	1.51	6	10	13	0.44	0.47	0.45	0.39	97	2.50	2.66	307	
		21	52	7	1.53	6	9	13	0.46	0.49	0.40	0.34	86	2.63	2.77	271	
		21	52	7	1.53	6	9	13	0.44	0.47	0.39	0.34	85	2.48	2.65	267	
Versalux® Grey 2000	1/8" (3mm)	1/4" (6.5mm)	17	21	4	0.68	5	5	12	0.54	0.56	0.36	0.31	80	3.07	3.17	253
			17	21	4	0.70	5	5	12	0.50	0.52	0.35	0.30	78	2.81	2.97	246
	3/16" (5mm)	1/2" (12.7mm)	8	11	1	0.48	4	4	12	0.47	0.50	0.27	0.23	60	2.66	2.80	191
			8	11	1	0.50	4	4	12	0.44	0.47	0.26	0.22	59	2.51	2.68	185
		5	7	1	0.35	4	4	11	0.47	0.49	0.24	0.20	55	2.65	2.79	172	
		5	7	1	0.35	4	4	11	0.44	0.47	0.23	0.20	53	2.51	2.66	167	
Versalux® Blue	1/4" (6mm)	1/2" (12.7mm)	38	50	26	1.02	7	8	13	0.47	0.49	0.57	0.49	120	2.65	2.79	379
			38	50	26	1.02	7	8	13	0.44	0.47	0.56	0.49	119	2.49	2.66	377
	5/16" (8mm)	1/2" (12.7mm)	31	43	21	1.00	6	7	12	0.46	0.49	0.50	0.43	106	2.63	2.77	334
		31	43	21	1.02	6	7	12	0.44	0.47	0.49	0.42	105	2.48	2.65	331	
Versalux® Green	1/8" (3mm)	1/4" (6.5mm)	52	75	34	1.23	9	13	14	0.54	0.56	0.70	0.61	148	3.07	3.17	465
			52	75	34	1.25	9	13	14	0.50	0.56	0.70	0.60	146	2.80	2.97	462
	5/32" (4mm)	1/4" (6.5mm)	48	73	30	1.28	9	13	14	0.47	0.50	0.66	0.57	138	2.67	2.82	436
			48	73	30	1.28	9	13	14	0.44	0.47	0.65	0.57	137	2.52	2.67	434
	3/16" (5mm)	1/2" (12.7mm)	43	70	26	1.32	8	12	14	0.47	0.50	0.61	0.53	130	2.66	2.81	409
		43	70	26	1.32	8	12	14	0.44	0.47	0.61	0.53	129	2.51	2.68	407	
		39	68	22	1.39	8	12	14	0.47	0.49	0.57	0.49	121	2.65	2.79	382	
		39	68	22	1.39	8	12	14	0.44	0.47	0.57	0.49	120	2.50	2.66	380	
Versalux® Grey	1/8" (3mm)	1/4" (6.5mm)	52	56	32	0.93	9	9	13	0.54	0.56	0.70	0.60	147	3.07	3.17	465
			52	56	32	0.93	9	9	13	0.50	0.52	0.70	0.60	146	2.81	2.97	461
	5/32" (4mm)	1/4" (6.5mm)	47	52	28	0.93	8	9	13	0.47	0.50	0.65	0.56	137	2.67	2.81	433
			47	52	28	0.93	8	9	13	0.44	0.47	0.65	0.56	136	2.52	2.68	431
	3/16" (5mm)	1/2" (12.7mm)	41	47	24	0.90	7	8	13	0.47	0.50	0.60	0.52	127	2.66	2.81	402
		41	47	24	0.90	7	8	13	0.44	0.47	0.60	0.52	127	2.51	2.68	399	
		35	41	20	0.85	7	7	12	0.47	0.49	0.55	0.48	117	2.68	2.79	370	
		35	41	20	0.85	7	7	12	0.44	0.47	0.55	0.48	116	2.50	2.66	367	
Versalux® Bronze	1/8" (3mm)	1/4" (6.5mm)	54	61	31	0.98	9	10	13	0.54	0.56	0.72	0.62	152	3.07	3.17	478
			54	61	31	0.98	9	10	13	0.50	0.52	0.72	0.62	151	2.80	2.97	475
	5/32" (4mm)	1/2" (12.7mm)	49	57	27	0.97	9	9	13	0.47	0.50	0.68	0.59	142	2.67	2.82	448
			49	57	27	0.98	9	9	13	0.44	0.47	0.67	0.58	141	2.51	2.69	446
	3/16" (5mm)	1/2" (12.7mm)	44	52	22	0.96	8	9	13	0.47	0.50	0.63	0.54	133	2.66	2.81	419
		44	52	22	0.96	8	9	13	0.44	0.47	0.63	0.54	132	2.51	2.68	416	
		39	47	18	0.94	7	8	13	0.47	0.49	0.58	0.50	123	2.65	2.79	388	
		39	47	18	0.94	7	8	13	0.44	0.47	0.58	0.50	122	2.50	2.66	385	



Versalux®

Footnotes Apply to Tinted and Reflective Versalux® Monolithic, Insulated with Clear and Insulated with Low-E

¹ Pyrolytically Applied Low Emissivity Coating on Clear Float Glass. Coated Surface Emissivity .154 and Total Solar Reflectance 12 - 13%

² MSVD (sputter) Applied Low Emissivity Coating on Clear Glass. Coated Surface Emissivity .043 and Total Solar Reflectance 43%

∇ Light to Solar Gain Ratio (LSG) is Visible Light Transmittance ÷ Solar Heat Gain Coefficient. (*Spectrally Selective Glazing has VLT of ≥ 40% & LSG ratio of ≥ 1.25 as outlined in Federal Technology Alert DOE/EE-0173, Federal Energy Management Program.*)

@ Air Space Filling: Dark Bands Argon Filled – Light Bands Air Filled

† It is recommended these products be heat treated (heat strengthened or fully tempered) to withstand solar induced thermal stresses.

** These products may require heat treating to withstand solar induced thermal stresses when the reflective coating is glazed towards the building's interior. (See pages 11-15).

a The Winter Nighttime U/R Values (K Values) are based on an outdoor temperature of 0°F (-17.8°C) an indoor temperature of 70°F (21°C) 15 mph (24km/h) outdoor air speed and no sun. The Summer Daytime U/R Values (K Value) are based on an outdoor temperature of 89°F (32°C), an indoor temperature of 75°F (24°C), a 7.5 mph (12km/h) outdoor air speed and a solar intensity of 248 BTU/Hr. per Ft² (790 w/m²).

b Shading Coefficient is the ratio of solar heat gain through a glass/or glass and shading combination compared to that of unshaded 1/8" (3.0mm) clear float glass at normal incidence. The shading coefficient of 1/8" (3.0mm) clear float glass is 1.00.

c Solar Heat Gain Coefficient is the solar heat gain through glass relative to the incident solar radiation. SHGC is equal to approximately 86% of the shading coefficient.

d Relative Heat Gain is the combination of solar heat gain (transmitted and that amount of absorbed energy that is conducted or convected to the interior) and heat transfer due to the indoor/outdoor temperature differential. (Based on an ASHRAE solar heat gain factor of 200 BTU/Hr. per Ft². (637 w/m²) and outdoor air 14°F (7.8°C) warmer than indoor air with no shading devices.)

e From LBNL Window 5.2 v5.2.12 Computer Analysis (300-380 nanometers.) Environmental conditions assumed: NFRC 100-2001 summer and NFRC 100-2001 winter.

Performance data represents center of glass values calculated under the guidelines of LBNL Window 5.2 v5.2.12 computer analysis, assuming an air mass of 1.5.

For values calculated under Window 4.1, visit our website at www.visteon.com/floatglass