



## Glass Performance Chart

(Double Pane)

### VISIBLE LIGHT

Overall Unit Thickness	Glass Description									VISIBLE LIGHT			
	Glass	Air Spacer	Glass	Air Spacer	Glass	U-Value	R-Value	Solar Heat Gain Coefficient	Trans (%)	Reflectance Out (%)	Reflectance In (%)	UV Transmittance (%)	
<b>Outside Lite / Inside Lite</b>													
<b>CARDINAL</b>													
Double Pane 180 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.26	3.84	0.62	78%	15%	14%	26%
Double Pane 180 / i89	1"	3/16"	5/8"	3/16"	N/A	N/A	0.21	4.76	0.60	76%	15%	16%	25%
Double Pane 272 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.25	4.00	0.40	71%	10%	11%	15%
Double Pane 272 / i89	1"	3/16"	5/8"	3/16"	N/A	N/A	0.20	5.00	0.39	43%	10%	11%	14%
Double Pane 366 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.27	64%	10%	11%	4%
Double Pane 366 / i89	1"	3/16"	5/8"	3/16"	N/A	N/A	0.20	5.00	0.26	62%	10%	11%	4.4%
Double Pane 180 / 180	1"	3/16"	5/8"	3/16"	N/A	N/A	0.25	4.00	0.59	75%	15%	15%	14%
Double Pane 272 / 272	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.37	62%	8%	8%	6%
Double Pane 366 / 366	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.26	50%	9%	9%	0.5%
Double Pane Clear / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.45	2.22	0.74	81%	14%	14%	51%
Double Pane Clear / i89	1"	3/16"	5/8"	3/16"	N/A	N/A	0.33	3.03	0.67	79%	14%	13%	48%
<b>GUARDIAN</b>													
Clima Guard 75685 / 75685	1"	3/16"	5/8"	3/16"	N/A	N/A	0.21	4.76	0.57	68%	13%	12%	32%
Clima Guard 75685 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.28	3.57	0.61	74%	14%	13%	41%
Clear / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.45	2.22	0.75	81%	14%	15%	52%
Sun Guard TE 675 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.25	4.00	0.37	67%	12%	10%	23%
Sun Guard TE 675 / TE 675	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.35	56%	9%	9%	11%
Sun Guard TEX 625 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.26	62%	12%	11%	6%
Sun Guard TEX 625 / TEX 625	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.25	48%	9%	9%	1%
SNX 62275 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.26	62%	12%	11%	6%
SNX 62275 / SNX 62275	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.25	48%	9%	9%	1%
<b>PILKINGTON</b>													
Clear / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.45	2.22	0.73	79%	15%	15%	49%
EA / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.29	3.44	0.63	74%	15%	14%	40%
EA / EA	1"	3/16"	5/8"	3/16"	N/A	N/A	0.27	3.70	0.61	69%	19%	19%	33%
SE / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.30	3.33	0.44	53%	15%	10%	34%
SE / SE	1"	3/16"	5/8"	3/16"	N/A	N/A	0.27	3.70	0.41	36%	11%	11%	23%
<b>PPG</b>													
Clear / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.45	2.22	0.72	80%	12%	12%	53%
SB 70XL / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.27	63%	13%	12%	5%
SB 70XL / SB 70XL	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.25	50%	10%	10%	0.8%
SB 605 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.25	4.00	0.38	71%	12%	11%	19%
SB 605 / SB 605	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.36	63%	9%	9%	8%
SB 655 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.25	4.00	0.36	69%	14%	13%	17%
SB 655 / SB 655	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.34	60%	12%	12%	6%
SB 805 / Clear	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.23	48%	33%	36%	13%
SB 805 / SB 805	1"	3/16"	5/8"	3/16"	N/A	N/A	0.24	4.16	0.18	31%	41%	41%	4%

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**U-VALUE** - Measure of the ability of different structural components to conduct heat. The U-value of glass is measured by the number of BTUs that will pass through each square foot of area, per degree of temperature difference, from one side of the glass to the other. U-values indicate how well the glass will hold the heated or cooled air. The lower the U-value, the greater the glass's resistance to heat flow and the higher the insulating value. The U-value is the inverse of the R-value.

**R-VALUE** - Measure of resistance to heat gain or loss (insulative ability). R-values, rather than thicknesses, can be compared for different materials. The higher the R-value, the greater the glass's resistance to heat flow and the higher the insulating value. The Rvalue is the inverse of the U-value.

**SOLAR HEAT GAIN COEFFICIENT (SHGC)** - The fraction of solar radiation transmitted through glass expressed as a percentage. The lower a glass's SHGC, the less solar heat it transmits and the greater its shading ability. Generally, a lower SHGC is desirable in warm climates and a higher SHGC is desirable in cold climates. SHGC has replaced Shading Coefficient as the standard indicator of glass's shading ability.