

V-KOOL Performance Data

	Tsol	Rsol	Asol	VLT	VLR	UVR	IRR	SHGC	Tser	SC	Summer	
											SI	IP
											U-Value	U-Value
Clear 3 LOF	83.7%	7.5%	8.8%	89.9%	8.3%	71.6%		0.86	13.9%	1	5.44	0.96
Clear (70)	35.0%	26.5%	38.5%	70.9%	8.0%	>99%	94.0%	0.44	55.0%	0.5	5.10	0.90
Clear (75)	47.3%	22.5%	30.2%	77.0%	9.5%	>99%	77.1%	0.53	45.5%	0.63	4.89	0.86
Clear (65)	44.0%	20.0%	36.9%	66.0%	11.0%	>99%	68.0%	0.52	47.0%	0.61	5.09	0.90
Clear (40)	20.6%	25.7%	53.6%	42.8%	10.3%	>99%	98.3%	0.35	84.5%	0.42	5.71	1.00
Clear (35)	29.0%	22.0%	49.0%	36.0%	12.0%	>99%	70.0%	0.46	55.0%	0.49	5.38	0.95
Bronze3.LOF	64.8%	6.2%	29.0%	68.2%	6.4%	37.3%		0.73	27.4%	0.85	5.81	1.02
Bronze (70)	28.3%	18.7%	53.0%	53.8%	6.6%	1.0%		0.42	57.4%	0.49	5.34	0.94
Bronze (75)	36.0%	12.1%	51.9%	58.1%	6.7%	1.0%		0.49	50.0%	0.57	5.24	0.92
Bronze (65)	32.1%	12.9%	55.0%	47.4%	9.1%	1.0%		0.46	53.1%	0.53	5.28	0.93
Bronze (40)	29.0%	15.9%	68.5%	31.7%	7.5%	1.0%		0.35	65.9%	0.41	5.85	1.03
Double	70.8%	12.9%	16.3%	81.3%	15.0%	N.A.		0.76	24.8%	0.88	2.90	0.51
Double (70)	32.4%	26.3%	41.3%	84.4%	15.2%	1.0%		0.52	56.4%	0.6	3.27	0.58
Double (75)	40.5%	19.1%	40.4%	69.4%	15.4%	1.0%		0.61	48.6%	0.71	3.27	0.58
Double (65)	36.1%	20.1%	43.8%	57.0%	18.6%	1.0%		0.59	52.1%	0.69	3.31	0.58
Double (40)	18.0%	23.3%	58.7%	38.0%	16.5%	1.0%		0.50	66.2%	0.58	3.47	0.61
Double (35)	25.8%	21.3%	52.9%	32.0%	15.5%	1.0%		0.54	57.5%	0.62	3.37	0.59

All performance information calculated using Lawrence Berkeley Laboratories

V-KOOL is a registered trademark of Southwalk Technologies, 1029 Corporation Way, Palo Alto CA 94303 (550) 962-9111)

Definitions

Visible Light Transmittance: The percent of total visible light that passes through a glazing system.

Ultraviolet (UV) Rejection: The percent of total ultraviolet light that is rejected from passing through a glazing system.

Visible Light Reflectance: The percent of total visible light that is reflected by a glazing system.

Total Solar Energy Rejected: The percent of incident solar energy (heat) rejected by a glazing system which equals solar reflectance plus the part of solar absorption which is re-radiated outward.

Total Solar Reflectance: The percent of incident solar radiation that is absorbed by a glazing system.

Total Solar Absorptance: The percentage of incident solar radiation that is absorbed by a glazing system.

Total Solar Transmittance: The ratio of incident solar radiation that directly passes through a glazing system.

Shading Coefficient: The ratio of solar heat gain through a glazing system to the solar heat gain of a single file double-strength glass. A measure of degree of efficiency of a glazing system to control solar energy. The lower the shading coefficient number, the better the solar shading qualities of the glazing system.

U-Value: The overall coefficient of heat transfer by conduction equals the reciprocal of R value. The lower the U-Value, the better the insulating qualities of the glazing system.

Emissivity: A measure of the ability of a product to reflect long wave radiant energy. The lower the emissivity, the better the insulating qualities of the glazing system.

Luminous Efficacy: The ratio of daylight transmission to solar heat transmission which passes through a glazing system. This is determined by dividing the visible light transmission by the shading coefficient. The higher this number the better it indicates how much of the transmitted solar energy is useful visible light rather than heat.

Glossary

Double: Insulated Glass

Tsol: Total Solar Transmission

Rsol: Total Solar Radiation

Asol: Total Solar Absorption

VLT: Visible Light Transmission

VLR: Visible Light Reflectance

UVR: Ultra-Violet Light Rejection

IRR: Infa-Red Rejection

SHGC: Solar Heat Gain Coefficient

Tser: Total Solar Energy Rejection