

Glazing Tech Data 7/3/2014

June 2012 NYC DOB Energy Figures: min 2.0 0.55 max 0.40 max 0.45 max								
	A	B	C	D	E	F	G	H
Glazing Type / Standard	R-Value	U-Value	Weight In Pounds Per Square Foot	% Light Transmission	Solar Heat Gain Coefficient	Shading Coefficient	Sound Transmission Class	Sound Transmission Class
1/4" Clear Tempered Single Pane Glass	0.94	1.04	3.02	90%	0.86	0.94	32	26db
1/4" Clear Monolithic Polycarbonate	1.11	0.90	1.45	83%		1.02		
10mm Clear Multiwall	1.79	0.56	0.41	75%	0.76	0.90	21	19db
June 2012 NYC DOB: min 2.0 0.55 max 0.40 max 0.45 max								
Glazing Type / Optional								
1/4" Clear Tempered Single Pane Low E Glass	1.03	0.67	3.02	82%	0.35	0.94	31	26db
1/4" Bronze Monolithic Polycarbonate	1.11	0.90	1.45	50%		0.79		
1/4" Grey Tint Tempered Single Pane Glass	0.94	1.04	3.02	68%	0.73	0.93	31	26db
10mm Bronze Tint Multiwall Polycarbonate	1.89	0.53	0.41	40%	0.68	0.72	21	19db
10mm Grey Tint Multiwall Polycarbonate	1.89	0.53	0.41	30%	0.55	0.64	21	19db
10mm Opal Multiwall Polycarbonate	1.89	0.53	0.41	55%	0.28	0.45	21	19db
10mm Solar Control Grey Tint Multiwall Polycarbonate	1.89	0.53	0.35	25%	0.36	0.41	21	19db
Dual 10mm Clear over Clear Multiwall Polycarbonate	3.57	0.28	0.70	55%	0.59	0.70		
Dual 10mm Bronze Tinted over Clear Multiwall Polycarbonate	3.57	0.28	0.70	20%	0.38	0.43		
Dual 10mm Grey Tinted over Clear Multiwall Polycarbonate	3.57	0.28	0.70	20%	0.35	0.40		
Dual 10mm Opal over Clear Multiwall Polycarbonate	3.57	0.28	0.70	20%	0.22	0.28		
3/8" laminated Glass	1.11	0.98	4.91	86%	0.78	0.90		
3/8" laminated Low E Glass	1.11	0.65	4.91	79%	0.65	0.76	36	
7/8" Clear Insulated Glass Unit	2.04	0.48	4.90	80%	0.76	0.87		
7/8" Clear/ Laminated/ Insulated Glass Unit	2.04	0.47	5.73	79%	0.74	0.85		
7/8" Clear Solarban60 Low E Insulated Glass Unit	3.45	0.29	4.90	70%	0.38	0.43		
7/8" Clear Solarban60 Low E Laminated Insulated Glass Unit	3.45	0.29	4.90	70%	0.38	0.43		
7/8" Bronze Solarban60 Low E Insulated Glass Unit	3.45	0.29	4.90	42%	0.36	0.41		
7/8" Bronze Solarban60 Low E Laminated Insulated Glass Unit	3.45	0.29	4.90	42%	0.27	0.31		
7/8" Gray Solarban60 Low E Insulated Glass Unit	3.45	0.29	4.90	35%	0.35	0.41		
7/8" Gray Solarban60 Low E Laminated Insulated Glass Unit	3.45	0.29	4.90	35%	0.24	0.28		
1/4" Alupalite	1.75		0.78	0%	N/A	N/A		
1" Thermolite	7.00		1.40	0%	N/A	N/A		

Definition of terminology:

- A) R-Value** - The overall resistance to heat transfer.
- B) U-Value** - The amount of conductive heat energy (BTU's) transferred through a one-square-foot area of a specific insulating glass unit for each degree Fahrenheit temperature difference between the indoor and outdoor air. It is the inverse of the R-value; $U=1/R$.
- C) Weight In Pounds Per Square Foot** - Actual weight per square foot of glazing material only.
- D) % Light Transmission** - Percentage of visible light able to pass through the glazing.
- E) Solar Heat Gain Coefficient** - Ratio of total solar heat energy transmitted.
- F) Shading Coefficient** - The amount of the sun's heat transmitted through a given window compared with that of a standard 1/8-inch-thick single pane of glass under the same conditions.
- G) Sound Transmission Class** - A single-number rating of a material's ability to resist airborne sound transfer at frequencies 125-4000 Hz.
- H) db Sound Reduction** - Amount of sound reduced from transmitting through the glazing measured in decibels.