

KI7000 SYSTEM & KI4100 Glazing Selection Guide (U-Factors by Glazing)

ENERGY STAR® Climate Zones

- .35 or Less = Northern
- .40 or Less = North/Central
- .40 or Less = South/Central
- .65 or Less = Southern



		COG U-Factor	U-Factor							Reverse Ext. & Int. Lites for 2901 Results	
			Hopper KI7861	Fixed KI7900	Casement KI7990	Tilt & Turn KI7221	Awning KI7511	Single Hung KI4100	Single Hung (Foam) KI4100F	Double Hung Tilt-In Sash 2901	
			1		2		3		4		5
1	Ext. Lite:	1/4" Hard Coat Low-E (Comfort E2)	0.305	0.43	0.43	0.46	0.43	0.46	N/A	N/A	N/A
	Gap:	0.500" 90% Argon		SHGC: 0.46	SHGC: 0.46	SHGC: 0.46	SHGC: 0.46	SHGC: 0.46	N/A	N/A	N/A
	Int. Lite:	1/4" Clear		VT: 0.53	VT: 0.53	VT: 0.53	VT: 0.53	VT: 0.53	N/A	N/A	N/A
	Spacer:	Aluminum Box									
2	Ext. Lite:	1/4" Soft Coat Low-E (SolarBan 60)	0.248	0.39	0.39	0.43	0.39	0.43	N/A	N/A	N/A
	Gap:	0.500" 90% Argon		SHGC: 0.29	SHGC: 0.29	SHGC: 0.28	SHGC: 0.29	SHGC: 0.28	N/A	N/A	N/A
	Int. Lite:	1/4" Clear		VT: 0.50	VT: 0.50	VT: 0.50	VT: 0.50	VT: 0.50	N/A	N/A	N/A
	Spacer:	Aluminum Box									
3	Ext. Lite:	1/4" Soft Coat Low-E (SolarBan 60)	0.249	0.4	0.4	0.43	0.4	0.43	N/A	N/A	N/A
	Gap:	0.500" 90% Argon		SHGC: 0.29	SHGC: 0.29	SHGC: 0.28	SHGC: 0.29	SHGC: 0.28	N/A	N/A	N/A
	Int. Lite:	3/16" Clear		VT: 0.50	VT: 0.50	VT: 0.50	VT: 0.50	VT: 0.50	N/A	N/A	N/A
	Spacer:	Aluminum Box									
4	Ext. Lite:	1/4" Clear	0.455	0.54	0.54	0.56	0.54	0.56	N/A	N/A	N/A
	Gap:	0.625" 90% Argon		SHGC: 0.55	SHGC: 0.55	SHGC: 0.55	SHGC: 0.55	SHGC: 0.55	N/A	N/A	N/A
	Int. Lite:	1/8" Clear		VT: 0.58	VT: 0.58	VT: 0.58	VT: 0.58	VT: 0.58	N/A	N/A	N/A
	Spacer:	Aluminum Box									
5	Ext. Lite:	1/4" Hard Coat Low-E (Comfort E2)	0.313	0.44	0.44	N/A	0.44	N/A	N/A	N/A	N/A
	Gap:	0.625" 90% Argon		SHGC: 0.47	SHGC: 0.47	N/A	SHGC: 0.47	N/A	N/A	N/A	N/A
	Int. Lite:	1/8" Clear		VT: 0.54	VT: 0.54	N/A	VT: 0.54	N/A	N/A	N/A	N/A
	Spacer:	Aluminum Box									
6	Ext. Lite:	1/8" Hard Coat Low-E (Comfort E2)	0.321	0.42	0.42	0.46	0.42	0.46	N/A	N/A	0.5
	Gap:	0.750" 90% Argon		SHGC: 0.49	SHGC: 0.49	SHGC: 0.48	SHGC: 0.49	SHGC: 0.48	N/A	N/A	SHGC: 0.54
	Int. Lite:	1/8" Clear		VT: 0.55	VT: 0.55	VT: 0.54	VT: 0.55	VT: 0.54	N/A	N/A	VT: 0.56
	Spacer:	Steel Intercept									
				A	B	C	D	E	F	G	H

All results are taken from NFRC U-Factor Computer Simulations unless otherwise stated.

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		COG U-Factor	U-Factor																
			Hopper KI7861	Fixed KI7900	Casement KI7990	Tilt & Turn KI7221	Awning KI7511	Single Hung KI4100	Single Hung (Foam) KI4100F	Double Hung Tilt-In Sash 2901									
7	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.266	0.38	0.38	0.42	0.38	0.42	0.45	0.42	0.46								
	Gap:	0.750" 90% Argon										SHGC: 0.29	SHGC: 0.29	SHGC: 0.29	SHGC: 0.29	SHGC: 0.29	SHGC: 0.25	SHGC: 0.24	SHGC: 0.37
	Int. Lite:	1/8" Clear										VT: 0.51	VT: 0.51	VT: 0.51	VT: 0.51	VT: 0.51	VT: 0.43	VT: 0.42	VT: 0.53
	Spacer:	Steel Intercept																	
8	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.25	0.38	0.38	N/A	0.38	N/A	N/A	N/A	N/A								
	Gap:	0.500" 90% Argon										SHGC: 0.29	SHGC: 0.29		SHGC: 0.29				
	Int. Lite:	1/8" Clear										VT: 0.51	VT: 0.51		VT: 0.51				
	Spacer:	Steel Intercept																	
9	Ext. Lite:	1/8" Hard Coat Low-E (Comfort E2)	0.321	0.4	0.4	0.44	0.4	0.44	0.48	N/A	0.49								
	Gap:	0.750" 90% Argon										SHGC: 0.49	SHGC: 0.49	SHGC: 0.48	SHGC: 0.49	SHGC: 0.48	SHGC: 0.41	SHGC: 0.54	
	Int. Lite:	1/8" Clear										VT: 0.55	VT: 0.55	VT: 0.54	VT: 0.55	VT: 0.54	VT: 0.46	VT: 0.56	
	Spacer:	Super Spacer®																	
10	Ext. Lite:	1/8" Clear	0.485	0.52	0.52	N/A	0.52	N/A	N/A	N/A	N/A								
	Gap:	0.750" 90% Argon										SHGC: 0.56	SHGC: 0.56		SHGC: 0.56				
	Int. Lite:	1/8" Clear										VT: 0.59	VT: 0.59		VT: 0.59				
	Spacer:	Super Spacer®																	
11	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.266	0.36	0.36	0.41	0.36	0.41	N/A	N/A	0.45								
	Gap:	0.750" 90% Argon										SHGC: 0.29	SHGC: 0.29	SHGC: 0.29	SHGC: 0.29	SHGC: 0.29		SHGC: 0.37	
	Int. Lite:	1/8" Clear										VT: 0.51	VT: 0.51	VT: 0.51	VT: 0.51	VT: 0.51		VT: 0.53	
	Spacer:	Super Spacer®																	
12	Ext. Lite:	1/8" Clear	0.199	0.32	0.32	0.36	0.32	0.36	N/A	N/A	N/A								
	Gap:	0.375" 90% Argon										SHGC: 0.27	SHGC: 0.27	SHGC: 0.27	SHGC: 0.27	SHGC: 0.27			
	Ctr. Lite:	Heat Mirror SC75										VT: 0.46	VT: 0.46	VT: 0.45	VT: 0.46	VT: 0.45			
	Gap:	0.375" 90% Argon																	
	Int. Lite:	1/8" Clear																	
Spacers:	Super Spacer®																		
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13	Ext. Lite:	1/8" Low-E	0.266	N/A	N/A	0.39 SHGC: 0.29 VT: 0.51	N/A	0.39 SHGC: 0.29 VT: 0.51	N/A	N/A	N/A
	Gap:	0.720" 90% Argon									
	Int. Lite:	1/8" Clear									
	Spacer:	Super Spacer®									
14	Ext. Lite:	1/8" Low-E	0.266	N/A	0.38 SHGC: 0.29 VT: 0.51	0.38 SHGC: 0.29 VT: 0.51	N/A	0.38 SHGC: 0.29 VT: 0.51	N/A	N/A	N/A
	Gap:	0.750" 90% Argon									
	Int. Lite:	1/8" Clear									
	Spacer:	Super Spacer®									
15	Ext. Lite:	1/8" Clear	0.486	N/A	N/A	N/A	N/A	N/A	0.6 SHGC: 0.49 VT: 0.44	0.56 SHGC: 0.48 VT: 0.42	N/A
	Gap:	0.750" Air									
	Int. Lite:	1/8" Clear									
	Spacer:	Super Spacer®									
16	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.266	N/A	N/A	N/A	N/A	N/A	0.44 SHGC: 0.25 VT: 0.43	0.4 SHGC: 0.24 VT: 0.42	N/A
	Gap:	0.750" 90% Argon									
	Int. Lite:	1/8" Clear									
	Spacer:	Super Spacer®									
17	Ext. Lite:	1/8" Hard Coat Low-E (Comfort E2)	0.321	N/A	N/A	N/A	N/A	N/A	0.48 SHGC: 0.41 VT: 0.46	0.45 SHGC: 0.40 VT: 0.44	N/A
	Gap:	0.750" 90% Argon									
	Int. Lite:	1/8" Clear									
	Spacer:	Super Spacer®									
18	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.266	N/A	N/A	N/A	N/A	N/A	0.45 SHGC: 0.25 VT: 0.43	0.42 SHGC: 0.24 VT: 0.42	N/A
	Gap:	0.750" 90% Argon									
	Int. Lite:	1/8" Clear									
	Spacer:	Steel Intercept									
19	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Gap:	0.500" 90% Argon									
	Int. Lite:	1/8" Clear									
	Spacer:	Steel Intercept									
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			Hopper KI7861	Fixed KI7900	Casement KI7990	Tilt & Turn KI7221	Awning KI7511	Single Hung KI4100	Single Hung (Foam) KI4100F	Double Hung Tilt-In Sash 2901	
20	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.224	N/A	N/A	N/A	N/A	N/A	0.41 SHGC: 0.29 VT: 0.50	0.38 SHGC: 0.28 VT: 0.48	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	3/32" Clear									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Clear									
Spacers:	Super Spacer®										
21	Ext. Lite:	1/8" Hard Coat Low-E (Comfort E2)	0.254	N/A	N/A	N/A	N/A	N/A	0.44 SHGC: 0.47 VT: 0.53	0.4 SHGC: 0.46 VT: 0.52	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	3/32" Clear									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Clear									
Spacers:	Super Spacer®										
22	Ext. Lite:	1/8" Soft Coat Low-E (Solarban 60)	0.224	N/A	N/A	N/A	N/A	N/A	0.42 SHGC: 0.29 VT: 0.50	0.39 SHGC: 0.28 VT: 0.48	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	3/32" Clear									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Clear									
Spacers:	Steel Intercept										
23	Ext. Lite:	1/8" Clear	0.217	N/A	N/A	N/A	N/A	N/A	N/A	0.37 SHGC: 0.38 VT: 0.49	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	3/32" Clear									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Soft Coat Low-E (Comfort Ti-R)									
Spacers:	Steel Intercept										
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24	Ext. Lite:	1/8" Soft Coat Low-E (Comfort Ti-R)	0.167	N/A	N/A	N/A	N/A	N/A	N/A	0.34 SHGC: 0.29 VT: 0.43	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	3/32" Clear									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Soft Coat Low-E (Comfort Ti-R)									
Spacers:	Super Spacer®										
25	Ext. Lite:	1/8" Soft Coat Low-E (Comfort Ti-R)	0.149	N/A	N/A	N/A	N/A	N/A	N/A	0.32 SHGC: 0.25 VT: 0.41	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	Heat Mirror SC75									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Clear									
Spacers:	Super Spacer®										
25	Ext. Lite:	1/8" Clear	0.149	N/A	N/A	N/A	N/A	N/A	N/A	0.4 SHGC: 0.51 VT: 0.52	N/A
	Gap:	0.313" 90% Argon									
	Ctr. Lite:	1/8" Clear									
	Gap:	0.313" 90% Argon									
	Int. Lite:	1/8" Hard Coat Low-E (Comfort E2)									
Spacers:	Steel Intercept										
			A	B	C	D	E	F	G	H	