



A250 | Thermally Improved Aluminum Thermal Chart

Revision Date: 4/28/2023

IG Thickness	Exterior Glass	Spacer	Interior Glass	Gas Fill	No Grids					Flat Grids					Sculptured Grids				
					U-Value	SHGC	VLT	Energy Star 6.0	Title 24	U-Value	SHGC	VLT	Energy Star 6.0	Title 24	U-Value	SHGC	VLT	Energy Star 6.0	Title 24
Horizontal Slider																			
3/4"	SunCoat	Intercept	Clear	Air	0.41	0.31	0.58	-	-	0.41	0.29	0.52	-	-	0.43	0.26	0.46	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.37	0.31	0.58	-	-	0.37	0.28	0.52	-	-	0.39	0.26	0.46	-	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.41	0.24	0.54	-	-	0.41	0.22	0.48	-	-	0.42	0.20	0.43	-	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.37	0.23	0.54	S	-	0.37	0.21	0.48	S	-	0.38	0.19	0.43	S	-
3/4"	SunCoat	Intercept	4th Surface	Air	0.36	0.31	0.57	-	-	0.36	0.28	0.51	-	-	0.37	0.25	0.45	S	-
3/4"	SunCoat	Intercept	4th Surface	Argon	0.33	0.31	0.57	-	-	0.33	0.28	0.51	-	-	0.34	0.25	0.45	S	-
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.35	0.23	0.53	S	-	0.35	0.21	0.47	S	-	0.37	0.19	0.42	S	-
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.33	0.23	0.53	S	-	0.33	0.21	0.47	S	-	0.34	0.19	0.42	S	-
3/4"	SunCoat	Foam	Clear	Air	0.41	0.31	0.58	-	-	0.41	0.29	0.52	-	-	0.43	0.26	0.46	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.37	0.31	0.58	-	-	0.37	0.28	0.52	-	-	0.38	0.26	0.46	-	-
3/4"	SunCoatMax	Foam	Clear	Air	0.40	0.24	0.54	S	-	0.40	0.22	0.48	S	-	0.42	0.20	0.43	-	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.36	0.23	0.54	-	-	0.36	0.21	0.48	S	-	0.38	0.19	0.43	S	-
3/4"	SunCoat	Foam	4th Surface	Air	0.35	0.31	0.57	-	-	0.35	0.28	0.51	-	-	0.37	0.25	0.45	S	-
3/4"	SunCoat	Foam	4th Surface	Argon	0.33	0.31	0.57	-	-	0.33	0.28	0.51	-	-	0.34	0.25	0.45	S	-
3/4"	SunCoatMax	Foam	4th Surface	Air	0.35	0.23	0.53	S	-	0.35	0.21	0.47	S	-	0.36	0.19	0.42	S	-
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.32	0.23	0.53	S	-	0.32	0.21	0.47	S	-	0.33	0.19	0.42	S	-
Single Hung																			
3/4"	SunCoat	Intercept	Clear	Air	0.41	0.32	0.58	-	-	0.41	0.29	0.52	-	-	0.43	0.26	0.46	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.37	0.31	0.58	-	-	0.37	0.28	0.52	-	-	0.39	0.26	0.46	-	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.40	0.24	0.54	S	-	0.40	0.22	0.48	S	-	0.42	0.20	0.43	-	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.36	0.23	0.54	S	-	0.36	0.21	0.48	S	-	0.38	0.19	0.43	S	-
3/4"	SunCoat	Intercept	4th Surface	Air	0.35	0.31	0.57	-	-	0.35	0.28	0.51	-	-	0.37	0.25	0.46	S	-
3/4"	SunCoat	Intercept	4th Surface	Argon	0.33	0.31	0.57	-	-	0.33	0.28	0.51	-	-	0.34	0.25	0.46	S	-
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.35	0.23	0.53	S	-	0.35	0.21	0.47	S	-	0.36	0.19	0.42	S	-
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.32	0.23	0.53	S	-	0.32	0.21	0.47	S	-	0.34	0.19	0.42	S	-
3/4"	SunCoat	Foam	Clear	Air	0.41	0.32	0.59	-	-	0.41	0.29	0.53	-	-	0.41	0.26	0.47	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.37	0.31	0.59	-	-	0.37	0.28	0.53	-	-	0.37	0.26	0.47	-	-
3/4"	SunCoatMax	Foam	Clear	Air	0.40	0.24	0.54	S	-	0.40	0.22	0.48	S	-	0.42	0.20	0.43	-	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.36	0.23	0.54	S	-	0.36	0.21	0.48	S	-	0.38	0.19	0.43	S	-
3/4"	SunCoat	Foam	4th Surface	Air	0.35	0.31	0.57	-	-	0.35	0.28	0.51	-	-	0.36	0.25	0.46	S	-
3/4"	SunCoat	Foam	4th Surface	Argon	0.32	0.31	0.57	-	-	0.32	0.28	0.51	-	-	0.34	0.25	0.46	S	-
3/4"	SunCoatMax	Foam	4th Surface	Air	0.35	0.23	0.53	S	-	0.35	0.21	0.47	S	-	0.36	0.19	0.42	S	-
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.32	0.23	0.53	S	-	0.32	0.21	0.47	S	-	0.33	0.19	0.42	S	-
Picture Window (920, direct set)																			
1"	SunCoat	Intercept	Clear	Air	0.36	0.34	0.63	-	-	0.36	0.31	0.57	-	-	0.36	0.28	0.51	-	-
1"	SunCoat	Intercept	Clear	Argon	0.32	0.33	0.63	-	-	0.32	0.30	0.57	-	-	0.32	0.27	0.51	-	-
1"	SunCoatMax	Intercept	Clear	Air	0.36	0.25	0.58	S	-	0.36	0.23	0.52	S	-	0.36	0.21	0.47	S	-
1"	SunCoatMax	Intercept	Clear	Argon	0.32	0.25	0.58	S	-	0.32	0.23	0.52	S	-	0.32	0.21	0.47	S	-
1"	SunCoat	Intercept	4th Surface	Air	0.30	0.33	0.62	-	-	0.30	0.30	0.56	NC	-	0.30	0.27	0.50	NC	-
1"	SunCoat	Intercept	4th Surface	Argon	0.27	0.33	0.62	-	-	0.27	0.30	0.56	N, NC	-	0.27	0.27	0.50	N, NC	-
1"	SunCoatMax	Intercept	4th Surface	Air	0.29	0.25	0.57	NC, SC, S	-	0.29	0.22	0.57	NC, SC, S	Yes	0.29	0.20	0.46	NC, SC, S	Yes
1"	SunCoatMax	Intercept	4th Surface	Argon	0.26	0.24	0.57	N, NC, SC, S	-	0.26	0.22	0.51	N, NC, SC, S	Yes	0.26	0.20	0.46	N, NC, SC, S	Yes
1"	SunCoat	Foam	Clear	Air	0.36	0.34	0.63	-	-	0.36	0.31	0.57	-	-	0.36	0.28	0.51	-	-
1"	SunCoat	Foam	Clear	Argon	0.32	0.33	0.63	-	-	0.32	0.30	0.57	-	-	0.32	0.27	0.51	-	-
1"	SunCoatMax	Foam	Clear	Air	0.36	0.25	0.58	S	-	0.36	0.23	0.52	S	-	0.36	0.21	0.47	S	-
1"	SunCoatMax	Foam	Clear	Argon	0.31	0.25	0.58	S	-	0.31	0.23	0.52	S	-	0.31	0.21	0.47	S	-
1"	SunCoat	Foam	4th Surface	Air	0.29	0.33	0.62	NC	-	0.29	0.30	0.56	NC	-	0.29	0.27	0.50	NC	-
1"	SunCoat	Foam	4th Surface	Argon	0.26	0.33	0.62	N, NC	-	0.26	0.30	0.56	N, NC	-	0.26	0.27	0.50	N, NC	-
1"	SunCoatMax	Foam	4th Surface	Air	0.29	0.25	0.57	NC, SC, S	-	0.29	0.22	0.51	NC, SC, S	Yes	0.29	0.20	0.46	NC, SC, S	Yes

Due to continual product development, data presented is subject to change at any time. Available components may vary by manufacturing location.



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IG Thickness	Exterior Glass	Spacer	Interior Glass	Gas Fill	No Grids					Flat Grids					Sculptured Grids				
					U-Value	SHGC	VLТ	Energy Star 6.0	Title 24	U-Value	SHGC	VLТ	Energy Star 6.0	Title 24	U-Value	SHGC	VLТ	Energy Star 6.0	Title 24
1"	SunCoatMax	Foam	4th Surface	Argon	0.26	0.24	0.57	N, NC, SC, S	-	0.26	0.22	0.51	N, NC, SC, S	Yes	0.26	0.20	0.46	N, NC, SC, S	Yes
Picture Window (slider frame)																			
3/4"	SunCoat	Intercept	Clear	Air	0.36	0.34	0.63	-	-	0.36	0.31	0.57	-	-	0.38	0.28	0.51	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.32	0.34	0.63	-	-	0.32	0.31	0.57	-	-	0.33	0.28	0.51	-	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.35	0.26	0.58	-	-	0.35	0.23	0.52	S	-	0.37	0.21	0.47	S	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.31	0.25	0.58	S	-	0.31	0.23	0.52	S	-	0.33	0.21	0.47	S	-
3/4"	SunCoat	Intercept	4th Surface	Air	0.30	0.33	0.62	NC	-	0.30	0.30	0.56	NC	-	0.32	0.28	0.50	-	-
3/4"	SunCoat	Intercept	4th Surface	Argon	0.27	0.33	0.62	N, NC	-	0.27	0.30	0.56	N, NC	-	0.29	0.27	0.50	NC	-
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.30	0.25	0.57	NC, SC, S	-	0.30	0.23	0.51	NC, SC, S	Yes	0.31	0.21	0.46	S	-
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.27	0.25	0.57	N, NC, SC, S	-	0.27	0.23	0.51	N, NC, SC, S	Yes	0.28	0.21	0.46	NC, SC, S	Yes
3/4"	SunCoat	Foam	Clear	Air	0.35	0.34	0.63	-	-	0.35	0.31	0.57	-	-	0.37	0.28	0.51	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.31	0.34	0.63	-	-	0.31	0.31	0.57	-	-	0.33	0.28	0.51	-	-
3/4"	SunCoatMax	Foam	Clear	Air	0.35	0.26	0.58	-	-	0.35	0.23	0.52	S	-	0.37	0.21	0.58	S	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.31	0.25	0.58	S	-	0.31	0.23	0.52	S	-	0.31	0.25	0.58	S	-
3/4"	SunCoat	Foam	4th Surface	Air	0.30	0.33	0.62	NC	-	0.30	0.30	0.56	NC	-	0.31	0.28	0.50	-	-
3/4"	SunCoat	Foam	4th Surface	Argon	0.27	0.33	0.62	N, NC	-	0.27	0.30	0.56	N, NC	-	0.28	0.27	0.50	NC	-
3/4"	SunCoatMax	Foam	4th Surface	Air	0.29	0.25	0.57	NC, SC, S	-	0.29	0.23	0.51	NC, SC, S	Yes	0.31	0.21	0.46	S	-
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.26	0.25	0.57	N, NC, SC, S	-	0.26	0.23	0.51	N, NC, SC, S	Yes	0.28	0.21	0.46	NC, SC, S	Yes
Casement																			
1"	SunCoat	Intercept	Clear	Air	0.44	0.28	0.51	-	-	0.44	0.26	0.46	-	-	0.44	0.24	0.42	-	-
1"	SunCoat	Intercept	Clear	Argon	0.41	0.28	0.51	-	-	0.41	0.26	0.46	-	-	0.41	0.23	0.42	-	-
1"	SunCoatMax	Intercept	Clear	Air	0.44	0.21	0.47	-	-	0.44	0.20	0.43	-	-	0.44	0.18	0.39	-	-
1"	SunCoatMax	Intercept	Clear	Argon	0.41	0.21	0.47	-	-	0.41	0.19	0.43	-	-	0.41	0.18	0.39	-	-
1"	SunCoat	Intercept	4th Surface	Air	0.39	0.28	0.50	-	-	0.39	0.25	0.45	S	-	0.39	0.23	0.41	S	-
1"	SunCoat	Intercept	4th Surface	Argon	0.36	0.27	0.50	-	-	0.36	0.25	0.45	S	-	0.36	0.23	0.41	S	-
1"	SunCoatMax	Intercept	4th Surface	Air	0.38	0.21	0.46	S	-	0.38	0.19	0.42	S	-	0.38	0.18	0.38	S	-
1"	SunCoatMax	Intercept	4th Surface	Argon	0.36	0.21	0.46	S	-	0.36	0.19	0.42	S	-	0.36	0.17	0.38	S	-
1"	SunCoat	Foam	Clear	Air	0.44	0.28	0.51	-	-	0.44	0.26	0.46	-	-	0.44	0.24	0.42	-	-
1"	SunCoat	Foam	Clear	Argon	0.40	0.28	0.51	-	-	0.40	0.26	0.46	-	-	0.40	0.23	0.42	-	-
1"	SunCoatMax	Foam	Clear	Air	0.43	0.21	0.47	-	-	0.43	0.20	0.43	-	-	0.43	0.18	0.39	-	-
1"	SunCoatMax	Foam	Clear	Argon	0.40	0.21	0.47	S	-	0.40	0.19	0.43	S	-	0.40	0.18	0.39	S	-
1"	SunCoat	Foam	4th Surface	Air	0.38	0.28	0.50	-	-	0.38	0.25	0.45	S	-	0.38	0.23	0.41	S	-
1"	SunCoat	Foam	4th Surface	Argon	0.36	0.27	0.50	-	-	0.36	0.25	0.45	S	-	0.36	0.23	0.41	S	-
1"	SunCoatMax	Foam	4th Surface	Air	0.38	0.21	0.46	S	-	0.38	0.19	0.42	S	-	0.38	0.18	0.38	S	-
1"	SunCoatMax	Foam	4th Surface	Argon	0.36	0.21	0.46	S	-	0.36	0.19	0.42	S	-	0.36	0.17	0.38	S	-
Awning																			
1"	SunCoat	Intercept	Clear	Air	0.45	0.28	0.51	-	-	0.45	0.26	0.46	-	-	0.45	0.24	0.42	-	-
1"	SunCoat	Intercept	Clear	Argon	0.41	0.28	0.51	-	-	0.41	0.26	0.46	-	-	0.41	0.23	0.42	-	-
1"	SunCoatMax	Intercept	Clear	Air	0.45	0.21	0.47	-	-	0.45	0.20	0.43	-	-	0.45	0.18	0.39	-	-
1"	SunCoatMax	Intercept	Clear	Argon	0.41	0.21	0.47	-	-	0.41	0.19	0.43	-	-	0.41	0.18	0.39	-	-
1"	SunCoat	Intercept	4th Surface	Air	0.40	0.28	0.50	-	-	0.40	0.25	0.45	S	-	0.40	0.23	0.41	S	-
1"	SunCoat	Intercept	4th Surface	Argon	0.37	0.27	0.50	-	-	0.37	0.25	0.45	S	-	0.37	0.23	0.41	S	-
1"	SunCoatMax	Intercept	4th Surface	Air	0.39	0.21	0.46	S	-	0.39	0.19	0.42	S	-	0.39	0.18	0.38	S	-
1"	SunCoatMax	Intercept	4th Surface	Argon	0.37	0.21	0.46	S	-	0.37	0.19	0.42	S	-	0.37	0.18	0.38	S	-
1"	SunCoat	Foam	Clear	Air	0.44	0.28	0.51	-	-	0.44	0.26	0.46	-	-	0.44	0.24	0.42	-	-
1"	SunCoat	Foam	Clear	Argon	0.41	0.28	0.51	-	-	0.41	0.26	0.46	-	-	0.41	0.23	0.42	-	-
1"	SunCoatMax	Foam	Clear	Air	0.44	0.21	0.47	-	-	0.44	0.20	0.43	-	-	0.44	0.18	0.39	S	-
1"	SunCoatMax	Foam	Clear	Argon	0.40	0.21	0.47	-	-	0.40	0.19	0.43	S	-	0.40	0.18	0.39	S	-
1"	SunCoat	Foam	4th Surface	Air	0.39	0.28	0.50	-	-	0.39	0.25	0.45	S	-	0.39	0.23	0.41	S	-
1"	SunCoat	Foam	4th Surface	Argon	0.37	0.27	0.50	-	-	0.37	0.25	0.45	S	-	0.37	0.23	0.41	S	-

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IG Thickness	Exterior Glass	Spacer	Interior Glass	Gas Fill	No Grids					Flat Grids					Sculptured Grids				
					U-Value	SHGC	VLТ	Energy Star 6.0	Title 24	U-Value	SHGC	VLТ	Energy Star 6.0	Title 24	U-Value	SHGC	VLТ	Energy Star 6.0	Title 24
1"	SunCoatMax	Foam	4th Surface	Air	0.39	0.21	0.46	S	-	0.39	0.19	0.42	S	-	0.39	0.18	0.38	S	-
1"	SunCoatMax	Foam	4th Surface	Argon	0.37	0.21	0.46	S	-	0.37	0.19	0.42	S	-	0.37	0.18	0.38	S	-
Sliding Patio Door																			
1"	SunCoat	Intercept	Clear	Air	0.42	0.31	0.58	-	-	0.42	0.28	0.51	-	-	0.42	0.25	0.45	-	-
1"	SunCoat	Intercept	Clear	Argon	0.38	0.31	0.58	-	-	0.38	0.28	0.51	-	-	0.38	0.25	0.45	S	-
1"	SunCoatMax	Intercept	Clear	Air	0.41	0.24	0.54	-	-	0.41	0.21	0.47	-	-	0.41	0.19	0.41	-	-
1"	SunCoatMax	Intercept	Clear	Argon	0.37	0.23	0.54	S	-	0.37	0.21	0.47	S	-	0.37	0.19	0.41	S	-
1"	SunCoat	Intercept	4th Surface	Air	0.35	0.31	0.57	-	-	0.35	0.28	0.50	-	-	0.35	0.24	0.44	S	-
1"	SunCoat	Intercept	4th Surface	Argon	0.33	0.31	0.57	-	-	0.33	0.27	0.50	-	-	0.33	0.24	0.44	S	-
1"	SunCoatMax	Intercept	4th Surface	Air	0.35	0.23	0.53	S	-	0.35	0.21	0.47	S	-	0.35	0.18	0.41	S	-
1"	SunCoatMax	Intercept	4th Surface	Argon	0.33	0.23	0.53	S	-	0.33	0.20	0.47	S	-	0.33	0.18	0.41	S	-
1"	SunCoat	Foam	Clear	Air	0.41	0.31	0.58	-	-	0.41	0.28	0.51	-	-	0.41	0.25	0.45	-	-
1"	SunCoat	Foam	Clear	Argon	0.38	0.31	0.58	-	-	0.38	0.28	0.51	-	-	0.38	0.25	0.45	S	-
1"	SunCoatMax	Foam	Clear	Air	0.41	0.24	0.54	-	-	0.41	0.21	0.47	-	-	0.41	0.19	0.41	-	-
1"	SunCoatMax	Foam	Clear	Argon	0.37	0.23	0.54	S	-	0.37	0.21	0.47	S	-	0.37	0.19	0.41	S	-
1"	SunCoat	Foam	4th Surface	Air	0.35	0.31	0.57	-	-	0.35	0.28	0.50	-	-	0.35	0.24	0.44	S	-
1"	SunCoat	Foam	4th Surface	Argon	0.33	0.31	0.57	-	-	0.33	0.27	0.50	-	-	0.33	0.24	0.44	S	-
1"	SunCoatMax	Foam	4th Surface	Air	0.35	0.23	0.53	S	-	0.35	0.21	0.47	S	-	0.35	0.18	0.41	S	-
1"	SunCoatMax	Foam	4th Surface	Argon	0.32	0.23	0.53	S	-	0.32	0.20	0.47	S	-	0.32	0.18	0.41	S	-

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