



V250 Style Line® Series Thermal Chart

Revision Date: 8/4/2023

IG Thickness	Exterior Glass	Spacer	Interior Glass	Gas Fill	No Grids					Flat Grids					Sculptured Grids				
					U-Value	SHGC	VLT	Energy Star 7.0	Title 24	U-Value	SHGC	VLT	Energy Star 7.0	Title 24	U-Value	SHGC	VLT	Energy Star 7.0	Title 24
Horizontal Slider																			
3/4"	SunCoat	Intercept	Clear	Air	0.33	0.32	0.57	-	-	0.33	0.29	0.51	-	-	0.34	0.26	0.45	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.29	0.31	0.57	-	-	0.29	0.28	0.51	-	-	0.30	0.26	0.45	-	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.32	0.23	0.50	S	-	0.32	0.21	0.45	S	-	0.34	0.19	0.40	-	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.29	0.23	0.50	S	Yes	0.29	0.21	0.45	S	Yes	0.30	0.19	0.40	S	Yes
3/4"	SunCoat	Intercept	4th Surface	Air	0.27	0.31	0.56	-	-	0.27	0.28	0.50	-	-	0.29	0.25	0.44	S	-
3/4"	SunCoat	Intercept	4th Surface	Argon	0.25	0.31	0.56	NC	-	0.25	0.28	0.50	NC	-	0.26	0.25	0.44	-	-
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.27	0.21	0.49	SC, S	Yes	0.27	0.19	0.43	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes
3/4"	Cardinal 180	Intercept	4th Surface	Argon	0.25	0.51	0.63	N	-	0.25	0.46	0.56	N	-	0.26	0.41	0.50	N	-
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.25	0.21	0.49	NC, SC, S	Yes	0.25	0.19	0.43	NC, SC, S	Yes	0.26	0.17	0.39	SC, S	Yes
3/4"	SunCoat	Foam	Clear	Air	0.32	0.32	0.57	-	-	0.32	0.29	0.51	-	-	0.34	0.26	0.45	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.28	0.31	0.57	-	-	0.28	0.28	0.51	-	-	0.30	0.26	0.45	-	-
3/4"	SunCoatMax	Foam	Clear	Air	0.32	0.23	0.50	S	-	0.32	0.21	0.45	S	-	0.34	0.19	0.40	-	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.28	0.23	0.50	SC, S	Yes	0.28	0.21	0.45	SC, S	Yes	0.30	0.19	0.40	S	Yes
3/4"	SunCoat	Foam	4th Surface	Air	0.27	0.31	0.56	-	-	0.27	0.28	0.50	-	-	0.28	0.25	0.44	-	-
3/4"	SunCoat	Foam	4th Surface	Argon	0.24	0.31	0.56	NC	-	0.24	0.28	0.50	NC	-	0.25	0.25	0.44	NC	-
3/4"	SunCoatMax	Foam	4th Surface	Air	0.27	0.21	0.49	SC, S	Yes	0.27	0.19	0.43	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.24	0.21	0.49	NC, SC, S	Yes	0.24	0.19	0.43	NC, SC, S	Yes	0.25	0.17	0.39	NC, SC, S	Yes
3/4"	Cardinal 180	Foam	4th Surface	Argon	0.25	0.51	0.63	N	-	0.25	0.46	0.56	N	-	0.26	0.41	0.50	N	-
Single Hung																			
3/4"	SunCoat	Intercept	Clear	Air	0.33	0.32	0.57	-	-	0.33	0.29	0.51	-	-	0.34	0.26	0.45	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.29	0.31	0.57	-	-	0.29	0.28	0.51	-	-	0.30	0.26	0.45	-	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.32	0.23	0.50	S	-	0.32	0.21	0.45	S	-	0.34	0.19	0.40	-	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.29	0.23	0.50	S	Yes	0.29	0.21	0.45	S	Yes	0.30	0.19	0.40	S	Yes
3/4"	SunCoat	Intercept	4th Surface	Air	0.27	0.31	0.56	-	-	0.27	0.28	0.50	-	-	0.29	0.25	0.44	-	-
3/4"	SunCoat	Intercept	4th Surface	Argon	0.25	0.31	0.56	NC	-	0.25	0.28	0.50	NC	-	0.26	0.25	0.44	-	-
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.27	0.21	0.49	SC, S	Yes	0.27	0.19	0.43	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.24	0.21	0.49	NC, SC, S	Yes	0.24	0.19	0.43	NC, SC, S	Yes	0.26	0.17	0.39	SC, S	Yes
3/4"	Cardinal 180	Intercept	4th Surface	Argon	0.25	0.51	0.63	N	-	0.25	0.46	0.56	N	-	0.26	0.41	0.50	N	-
3/4"	SunCoat	Foam	Clear	Air	0.32	0.32	0.57	-	-	0.32	0.29	0.51	-	-	0.34	0.26	0.45	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.28	0.31	0.57	-	-	0.28	0.28	0.51	-	-	0.30	0.26	0.45	-	-
3/4"	SunCoatMax	Foam	Clear	Air	0.32	0.23	0.50	S	-	0.32	0.21	0.45	S	-	0.34	0.19	0.40	-	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.28	0.23	0.50	SC, S	Yes	0.28	0.21	0.45	SC, S	Yes	0.30	0.19	0.40	S	Yes
3/4"	SunCoat	Foam	4th Surface	Air	0.27	0.31	0.56	-	-	0.27	0.28	0.50	-	-	0.28	0.25	0.44	-	-
3/4"	SunCoat	Foam	4th Surface	Argon	0.24	0.31	0.56	NC	-	0.24	0.28	0.50	NC	-	0.26	0.25	0.44	-	-
3/4"	SunCoatMax	Foam	4th Surface	Air	0.27	0.21	0.49	SC, S	Yes	0.27	0.19	0.43	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.24	0.21	0.49	NC, SC, S	Yes	0.24	0.19	0.43	NC, SC, S	Yes	0.25	0.17	0.39	NC, SC, S	Yes
3/4"	Cardinal 180	Foam	4th Surface	Argon	0.25	0.51	0.63	N	-	0.25	0.46	0.56	N	-	0.26	0.41	0.50	N	-
Picture Window (direct set)																			
1"	SunCoat	Intercept	Clear	Air	0.32	0.35	0.63	-	-	0.32	0.32	0.57	-	-	0.32	0.29	0.51	-	-
1"	SunCoat	Intercept	Clear	Argon	0.28	0.35	0.63	-	-	0.28	0.31	0.57	-	-	0.28	0.28	0.51	-	-
1"	SunCoatMax	Intercept	Clear	Air	0.32	0.25	0.56	-	-	0.32	0.23	0.50	S	-	0.32	0.21	0.45	S	-
1"	SunCoatMax	Intercept	Clear	Argon	0.27	0.25	0.56	-	-	0.27	0.23	0.50	SC, S	Yes	0.27	0.21	0.45	SC, S	Yes
1"	SunCoat	Intercept	4th Surface	Air	0.25	0.34	0.62	NC	-	0.25	0.31	0.56	NC	-	0.25	0.28	0.50	NC	-
1"	SunCoat	Intercept	4th Surface	Argon	0.22	0.34	0.62	N, NC	-	0.22	0.31	0.56	N, NC	-	0.22	0.28	0.50	N, NC	-
1"	SunCoatMax	Intercept	4th Surface	Air	0.25	0.23	0.54	NC, SC, S	Yes	0.25	0.21	0.49	NC, SC, S	Yes	0.25	0.19	0.44	NC, SC, S	Yes
1"	SunCoatMax	Intercept	4th Surface	Argon	0.22	0.24	0.54	N, NC	-	0.22	0.22	0.49	N, NC, SC, S	Yes	0.22	0.20	0.44	N, NC, SC, S	Yes
1"	Cardinal 180	Intercept	4th Surface	Air	0.26	0.57	0.70	N	-	0.26	0.51	0.63	N	-	0.26	0.46	0.56	N	-
1"	Cardinal 180	Intercept	4th Surface	Argon	0.23	0.57	0.70	N	-	0.26	0.51	0.63	N	-	0.23	0.46	0.56	N	-
1"	SunCoat	Foam	Clear	Air	0.31	0.35	0.63	-	-	0.31	0.32	0.57	-	-	0.31	0.29	0.51	-	-

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	VLT	Energy Star 7.0	Title 24	U-Value	SHGC	VLT	Energy Star 7.0	Title 24	U-Value	SHGC	VLT	Energy Star 7.0	Title 24
1"	SunCoat	Foam	Clear	Argon	0.27	0.35	0.63	-	-	0.27	0.31	0.57	-	-	0.27	0.28	0.51	-	-
1"	SunCoatMax	Foam	Clear	Air	0.31	0.25	0.56	-	-	0.31	0.23	0.50	S	-	0.31	0.21	0.45	S	-
1"	SunCoatMax	Foam	Clear	Argon	0.27	0.25	0.56	-	-	0.27	0.23	0.50	SC, S	Yes	0.27	0.21	0.45	SC, S	Yes
1"	SunCoat	Foam	4th Surface	Air	0.25	0.34	0.62	NC	-	0.25	0.31	0.56	NC	-	0.25	0.28	0.50	NC	-
1"	SunCoat	Foam	4th Surface	Argon	0.22	0.34	0.62	N, NC	-	0.22	0.31	0.56	N, NC	-	0.22	0.28	0.50	N, NC	-
1"	SunCoatMax	Foam	4th Surface	Air	0.25	0.23	0.54	NC, SC, S	Yes	0.25	0.21	0.49	NC, SC, S	Yes	0.25	0.19	0.44	NC, SC, S	Yes
1"	SunCoatMax	Foam	4th Surface	Argon	0.22	0.23	0.54	N, NC, SC, S	Yes	0.22	0.21	0.49	N, NC, SC, S	Yes	0.22	0.19	0.44	N, NC, SC, S	Yes
1"	Cardinal 180	Foam	4th Surface	Air	0.25	0.57	0.70	N	-	0.25	0.51	0.63	N	-	0.25	0.46	0.56	N	-
1"	Cardinal 180	Foam	4th Surface	Argon	0.23	0.57	0.70	N	-	0.23	0.51	0.63	N	-	0.23	0.46	0.56	N	-
Picture Window (slider frame)																			
3/4"	SunCoat	Intercept	Clear	Air	0.31	0.35	0.63	-	-	0.31	0.32	0.57	-	-	0.33	0.29	0.51	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.27	0.35	0.63	-	-	0.27	0.32	0.57	-	-	0.28	0.29	0.51	-	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.30	0.24	0.55	-	-	0.30	0.22	0.50	S	Yes	0.32	0.20	0.44	S	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.26	0.23	0.55	SC, S	Yes	0.26	0.21	0.50	SC, S	Yes	0.28	0.19	0.44	SC, S	Yes
3/4"	SunCoat	Intercept	4th Surface	Air	0.25	0.34	0.62	NC	-	0.25	0.31	0.56	NC	-	0.26	0.28	0.50	-	-
3/4"	SunCoat	Intercept	4th Surface	Argon	0.22	0.34	0.62	N, NC	-	0.22	0.31	0.56	N, NC	-	0.23	0.28	0.50	NC	-
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.24	0.23	0.54	NC, SC, S	Yes	0.24	0.21	0.49	NC, SC, S	Yes	0.26	0.19	0.44	SC, S	Yes
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.22	0.23	0.54	N, NC, SC, S	Yes	0.22	0.21	0.49	N, NC, SC, S	Yes	0.23	0.19	0.44	NC, SC, S	Yes
3/4"	Cardinal 180	Intercept	4th Surface	Air	0.26	0.56	0.70	N	-	0.26	0.51	0.63	N	-	0.27	0.46	0.56	-	-
3/4"	Cardinal 180	Intercept	4th Surface	Argon	0.23	0.57	0.70	N	-	0.23	0.51	0.63	N	-	0.24	0.46	0.56	N	-
3/4"	SunCoat	Foam	Clear	Air	0.30	0.35	0.63	-	-	0.30	0.32	0.57	-	-	0.33	0.29	0.51	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.26	0.35	0.63	-	-	0.26	0.32	0.57	-	-	0.28	0.29	0.51	-	-
3/4"	SunCoatMax	Foam	Clear	Air	0.30	0.24	0.55	-	-	0.30	0.22	0.50	S	Yes	0.32	0.20	0.44	S	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.26	0.23	0.55	SC, S	Yes	0.26	0.21	0.50	SC, S	Yes	0.28	0.19	0.44	SC, S	Yes
3/4"	SunCoat	Foam	4th Surface	Air	0.24	0.34	0.62	NC	-	0.24	0.31	0.56	NC	-	0.26	0.28	0.50	-	-
3/4"	SunCoat	Foam	4th Surface	Argon	0.22	0.34	0.62	N, NC	-	0.22	0.31	0.56	N, NC	-	0.23	0.28	0.50	NC	-
3/4"	SunCoatMax	Foam	4th Surface	Air	0.24	0.23	0.54	NC, SC, S	Yes	0.24	0.21	0.49	NC, SC, S	Yes	0.26	0.19	0.44	SC, S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.21	0.23	0.54	N, NC, SC, S	Yes	0.21	0.21	0.49	N, NC, SC, S	Yes	0.23	0.19	0.44	NC, SC, S	Yes
3/4"	Cardinal 180	Foam	4th Surface	Air	0.26	0.51	0.63	N	-	0.26	0.46	0.56	N	-	0.28	0.41	0.50	-	-
3/4"	Cardinal 180	Foam	4th Surface	Argon	0.24	0.51	0.63	N	-	0.24	0.46	0.56	N	-	0.25	0.41	0.50	N	-
Casement																			
7/8"	SunCoat	Intercept	Clear	Air	0.31	0.28	0.50	-	-	0.31	0.25	0.45	-	-	0.31	0.23	0.41	S	-
7/8"	SunCoat	Intercept	Clear	Argon	0.28	0.28	0.50	-	-	0.28	0.25	0.45	-	-	0.28	0.23	0.41	SC, S	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.31	0.19	0.43	S	-	0.31	0.17	0.39	S	-	0.31	0.16	0.35	S	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.27	0.19	0.43	SC, S	Yes	0.27	0.17	0.39	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.26	0.27	0.49	-	-	0.26	0.25	0.44	-	-	0.26	0.23	0.40	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Argon	0.24	0.27	0.49	NC	-	0.24	0.25	0.44	NC	-	0.24	0.23	0.40	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.26	0.18	0.43	SC, S	Yes	0.26	0.17	0.39	SC, S	Yes	0.26	0.16	0.35	SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.24	0.18	0.43	NC, SC, S	Yes	0.24	0.17	0.39	NC, SC, S	Yes	0.24	0.15	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.25	0.45	0.55	N	-	0.25	0.41	0.50	N	-	0.25	0.38	0.45	-	-
7/8"	SunCoat	Foam	Clear	Air	0.30	0.28	0.50	-	-	0.30	0.25	0.45	-	-	0.30	0.23	0.41	S	Yes
7/8"	SunCoat	Foam	Clear	Argon	0.27	0.28	0.50	-	-	0.27	0.25	0.45	-	-	0.27	0.23	0.41	SC, S	Yes
7/8"	SunCoatMax	Foam	Clear	Air	0.30	0.19	0.43	S	Yes	0.30	0.17	0.39	S	Yes	0.30	0.16	0.35	S	Yes
7/8"	SunCoatMax	Foam	Clear	Argon	0.27	0.19	0.43	SC, S	Yes	0.27	0.17	0.39	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.26	0.27	0.49	-	-	0.26	0.25	0.44	-	-	0.26	0.23	0.40	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.23	0.27	0.49	NC	-	0.23	0.25	0.44	NC	-	0.23	0.23	0.40	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.25	0.18	0.43	NC, SC, S	Yes	0.25	0.17	0.39	NC, SC, S	Yes	0.25	0.16	0.35	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.23	0.18	0.43	NC, SC, S	Yes	0.23	0.17	0.39	NC, SC, S	Yes	0.23	0.15	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.24	0.51	0.63	N	-	0.24	0.46	0.56	N	-	0.25	0.41	0.50	N	-
Awning																			

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7/8"	SunCoat	Intercept	Clear	Air	0.32	0.28	0.50	-	-	0.32	0.25	0.45	-	-	0.32	0.23	0.41	S	-
7/8"	SunCoat	Intercept	Clear	Argon	0.29	0.28	0.50	-	-	0.29	0.25	0.45	-	-	0.29	0.23	0.41	S	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.32	0.19	0.43	S	-	0.32	0.17	0.39	S	-	0.32	0.16	0.35	S	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.28	0.19	0.43	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes	0.28	0.16	0.35	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.28	0.27	0.49	-	-	0.28	0.25	0.44	-	-	0.28	0.23	0.40	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Argon	0.25	0.27	0.49	NC	-	0.25	0.25	0.44	NC	-	0.25	0.23	0.40	NC, SC, S	-
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.27	0.18	0.43	SC, S	Yes	0.27	0.17	0.39	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.25	0.18	0.43	NC, SC, S	Yes	0.25	0.17	0.39	NC, SC, S	Yes	0.25	0.15	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.26	0.45	0.55	N	-	0.26	0.41	0.50	N	-	0.26	0.38	0.45	-	-
7/8"	SunCoat	Foam	Clear	Air	0.31	0.28	0.50	-	-	0.31	0.25	0.45	-	-	0.31	0.23	0.41	S	-
7/8"	SunCoat	Foam	Clear	Argon	0.28	0.28	0.50	-	-	0.28	0.25	0.45	-	-	0.28	0.23	0.41	SC, S	Yes
7/8"	SunCoatMax	Foam	Clear	Air	0.31	0.19	0.43	S	-	0.31	0.17	0.39	S	-	0.31	0.16	0.35	S	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.28	0.19	0.43	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes	0.28	0.16	0.35	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.27	0.27	0.49	-	-	0.27	0.25	0.44	-	-	0.27	0.23	0.40	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.25	0.27	0.49	NC	-	0.25	0.25	0.44	NC	-	0.25	0.23	0.40	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.27	0.18	0.43	SC, S	Yes	0.27	0.17	0.39	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.24	0.18	0.43	NC, SC, S	Yes	0.24	0.17	0.39	NC, SC, S	Yes	0.24	0.15	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.25	0.45	0.55	N	-	0.25	0.41	0.50	N	-	0.25	0.38	0.45	-	-

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