



V400 Tuscany® Series Thermal Chart

Revision Date: 8/3/2023

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																			
7/8"	SunCoat	Intercept	Clear	Air	0.33	0.29	0.53	-	-	0.33	0.26	0.47	-	-	0.33	0.24	0.41	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.29	0.29	0.53	-	-	0.29	0.26	0.47	-	-	0.29	0.23	0.41	S	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.33	0.21	0.46	-	-	0.33	0.19	0.41	-	-	0.33	0.17	0.37	-	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.29	0.21	0.46	S	Yes	0.29	0.19	0.41	S	Yes	0.29	0.17	0.37	S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.28	0.29	0.52	-	-	0.28	0.26	0.46	-	-	0.28	0.23	0.41	SC, S	-
7/8"	SunCoat	Intercept	4th Surface	Argon	0.25	0.29	0.52	NC	-	0.25	0.26	0.46	NC	-	0.25	0.23	0.41	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.27	0.19	0.45	SC, S	Yes	0.27	0.18	0.40	SC, S	Yes	0.27	0.16	0.34	SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.25	0.19	0.45	NC, SC, S	Yes	0.25	0.17	0.40	NC, SC, S	Yes	0.25	0.16	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.26	0.47	0.58	N	-	0.26	0.43	0.52	N	-	0.26	0.38	0.46	-	-
7/8"	SunCoat	Foam	Clear	Air	0.32	0.29	0.53	-	-	0.32	0.26	0.47	-	-	0.32	0.24	0.41	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.29	0.29	0.53	-	-	0.29	0.26	0.27	-	-	0.29	0.23	0.41	S	Yes
7/8"	SunCoatMax	Foam	Clear	Air	0.32	0.21	0.46	S	-	0.32	0.19	0.41	S	-	0.32	0.17	0.37	S	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.28	0.21	0.46	SC, S	-	0.28	0.19	0.41	SC, S	Yes	0.28	0.17	0.37	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.27	0.29	0.52	-	-	0.27	0.26	0.46	-	-	0.27	0.23	0.41	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.25	0.29	0.52	NC	-	0.25	0.26	0.46	NC	-	0.25	0.23	0.41	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.27	0.19	0.45	SC, S	Yes	0.27	0.18	0.40	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.24	0.19	0.45	NC, SC, S	Yes	0.24	0.17	0.40	NC, SC, S	Yes	0.24	0.16	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.25	0.47	0.58	N	-	0.25	0.43	0.52	N	-	0.25	0.38	0.46	-	-
Double Slider																			
3/4"	SunCoat	Intercept	Clear	Air	0.33	0.28	0.50	-	-	0.33	0.25	0.45	-	-	0.34	0.23	0.39	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.29	0.28	0.50	-	-	0.29	0.25	0.45	-	-	0.31	0.22	0.39	S	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.32	0.19	0.44	S	-	0.32	0.17	0.39	S	-	0.34	0.16	0.34	-	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.29	0.19	0.44	S	Yes	0.29	0.17	0.39	S	Yes	0.31	0.15	0.34	S	-
3/4"	SunCoat	Intercept	4th Surface	Air	0.28	0.28	0.49	-	-	0.28	0.25	0.44	-	-	0.29	0.22	0.39	S	Yes
3/4"	SunCoat	Intercept	4th Surface	Argon	0.26	0.28	0.49	-	-	0.26	0.25	0.44	-	-	0.27	0.22	0.39	SC, S	Yes
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.28	0.19	0.43	SC, S	Yes	0.28	0.17	0.38	SC, S	Yes	0.29	0.15	0.34	S	Yes
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.26	0.19	0.43	SC, S	Yes	0.26	0.17	0.38	SC, S	Yes	0.27	0.15	0.34	SC, S	Yes
3/4"	Cardinal 180	Intercept	4th Surface	Argon	0.26	0.45	0.56	N	-	0.26	0.41	0.50	N	-	0.27	0.36	0.44	-	-
3/4"	SunCoat	Foam	Clear	Air	0.32	0.28	0.50	-	-	0.32	0.25	0.45	-	-	0.34	0.23	0.39	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.29	0.28	0.50	-	-	0.29	0.25	0.45	-	-	0.31	0.22	0.39	S	Yes
3/4"	SunCoatMax	Foam	Clear	Air	0.32	0.19	0.44	S	-	0.32	0.17	0.39	S	-	0.34	0.16	0.34	-	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.29	0.19	0.44	S	Yes	0.29	0.17	0.39	S	Yes	0.30	0.15	0.34	S	Yes
3/4"	SunCoat	Foam	4th Surface	Air	0.28	0.28	0.49	-	-	0.28	0.25	0.44	-	-	0.29	0.22	0.39	S	Yes
3/4"	SunCoat	Foam	4th Surface	Argon	0.25	0.28	0.49	NC	-	0.25	0.25	0.44	NC	-	0.26	0.22	0.39	SC, S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Air	0.27	0.19	0.43	SC, S	Yes	0.27	0.17	0.38	SC, S	Yes	0.29	0.15	0.34	S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.25	0.19	0.43	NC, SC, S	Yes	0.25	0.17	0.38	NC, SC, S	Yes	0.26	0.15	0.34	SC, S	Yes
3/4"	Cardinal 180	Foam	4th Surface	Argon	0.26	0.45	0.56	N	-	0.26	0.41	0.50	N	-	0.27	0.36	0.44	-	-
Single Hung																			
7/8"	SunCoat	Intercept	Clear	Air	0.33	0.29	0.53	-	-	0.33	0.26	0.47	-	-	0.33	0.24	0.41	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.29	0.29	0.53	-	-	0.29	0.26	0.47	-	-	0.29	0.23	0.41	S	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.33	0.21	0.46	-	-	0.33	0.19	0.41	-	-	0.33	0.17	0.37	-	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.29	0.21	0.46	S	Yes	0.29	0.19	0.41	S	Yes	0.29	0.17	0.37	S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.27	0.29	0.52	-	-	0.27	0.26	0.46	-	-	0.27	0.23	0.41	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Argon	0.25	0.29	0.52	NC	-	0.25	0.26	0.46	NC	-	0.25	0.23	0.41	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.27	0.19	0.45	SC, S	Yes	0.27	0.18	0.40	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.25	0.19	0.45	NC, SC, S	Yes	0.25	0.17	0.40	NC, SC, S	Yes	0.25	0.16	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.26	0.47	0.58	N	-	0.26	0.43	0.52	N	-	0.26	0.38	0.46	-	-
7/8"	SunCoat	Foam	Clear	Air	0.32	0.29	0.53	-	-	0.32	0.26	0.47	-	-	0.32	0.24	0.41	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.29	0.29	0.53	-	-	0.29	0.26	0.47	-	-	0.29	0.23	0.41	S	Yes

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

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
7/8"	SunCoatMax	Foam	Clear	Air	0.32	0.21	0.46	S	-	0.32	0.19	0.41	S	-	0.32	0.17	0.37	S	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.28	0.21	0.46	SC, S	Yes	0.28	0.19	0.41	SC, S	Yes	0.28	0.17	0.37	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.27	0.29	0.52	-	-	0.27	0.26	0.46	-	-	0.27	0.23	0.41	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.25	0.29	0.52	NC	-	0.25	0.26	0.46	-	-	0.25	0.23	0.41	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.27	0.19	0.45	SC, S	Yes	0.27	0.18	0.40	SC, S	Yes	0.27	0.16	0.35	SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.24	0.19	0.45	NC, SC, S	Yes	0.24	0.17	0.40	NC, SC, S	Yes	0.24	0.16	0.35	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.25	0.47	0.58	N	-	0.25	0.43	0.52	N	-	0.25	0.38	0.46	-	-
Double Hung																			
3/4"	SunCoat	Intercept	Clear	Air	0.33	0.29	0.51	-	-	0.33	0.26	0.45	-	-	0.35	0.23	0.40	-	-
3/4"	SunCoat	Intercept	Clear	Argon	0.29	0.28	0.51	-	-	0.29	0.26	0.45	-	-	0.31	0.23	0.40	S	-
3/4"	SunCoatMax	Intercept	Clear	Air	0.33	0.21	0.45	-	-	0.33	0.19	0.40	-	-	0.34	0.17	0.35	-	-
3/4"	SunCoatMax	Intercept	Clear	Argon	0.29	0.21	0.45	S	Yes	0.29	0.19	0.40	S	Yes	0.31	0.17	0.35	S	-
3/4"	SunCoat	Intercept	4th Surface	Air	0.28	0.28	0.50	-	-	0.28	0.25	0.45	-	-	0.29	0.23	0.39	S	Yes
3/4"	SunCoat	Intercept	4th Surface	Argon	0.26	0.28	0.50	-	-	0.26	0.25	0.45	-	-	0.27	0.23	0.39	SC, S	Yes
3/4"	SunCoatMax	Intercept	4th Surface	Air	0.28	0.19	0.44	SC, S	Yes	0.28	0.17	0.39	SC, S	Yes	0.29	0.16	0.34	S	Yes
3/4"	SunCoatMax	Intercept	4th Surface	Argon	0.25	0.19	0.44	NC, SC, S	Yes	0.25	0.17	0.39	NC, SC, S	Yes	0.27	0.15	0.34	SC, S	Yes
3/4"	Cardinal 180	Intercept	4th Surface	Argon	0.26	0.46	0.57	N	-	0.26	0.41	0.50	N	-	0.27	0.37	0.44	-	-
3/4"	SunCoat	Foam	Clear	Air	0.32	0.29	0.51	-	-	0.32	0.26	0.45	-	-	0.34	0.23	0.40	-	-
3/4"	SunCoat	Foam	Clear	Argon	0.29	0.28	0.51	-	-	0.29	0.26	0.45	-	-	0.31	0.23	0.40	S	-
3/4"	SunCoatMax	Foam	Clear	Air	0.32	0.21	0.45	S	-	0.32	0.19	0.40	S	-	0.34	0.17	0.35	-	-
3/4"	SunCoatMax	Foam	Clear	Argon	0.29	0.21	0.45	S	Yes	0.29	0.19	0.40	S	Yes	0.30	0.17	0.35	S	Yes
3/4"	SunCoat	Foam	4th Surface	Air	0.27	0.28	0.50	-	-	0.27	0.25	0.45	-	-	0.29	0.23	0.39	S	Yes
3/4"	SunCoat	Foam	4th Surface	Argon	0.25	0.28	0.50	NC	-	0.25	0.25	0.45	NC	-	0.26	0.23	0.36	SC, S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Air	0.27	0.19	0.44	SC, S	Yes	0.27	0.17	0.39	SC, S	Yes	0.29	0.16	0.34	S	Yes
3/4"	SunCoatMax	Foam	4th Surface	Argon	0.25	0.19	0.44	NC, SC, S	Yes	0.25	0.17	0.39	NC, SC, S	Yes	0.26	0.15	0.34	SC, S	Yes
3/4"	Cardinal 180	Foam	4th Surface	Argon	0.26	0.46	0.57	N	-	0.26	0.41	0.50	N	-	0.27	0.37	0.44	-	-
Picture Window (direct set)																			
7/8"	SunCoat	Intercept	Clear	Air	0.32	0.31	0.55	-	-	0.32	0.28	0.49	-	-	0.32	0.25	0.44	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.28	0.30	0.55	-	-	0.28	0.28	0.49	-	-	0.28	0.25	0.44	-	-
7/8"	SunCoatMax	Intercept	Clear	Air	0.32	0.23	0.49	S	-	0.32	0.20	0.43	S	-	0.32	0.18	0.38	S	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.28	0.22	0.49	SC, S	Yes	0.28	0.20	0.43	SC, S	Yes	0.28	0.18	0.38	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.26	0.30	0.54	-	-	0.26	0.27	0.48	-	-	0.26	0.25	0.43	-	-
7/8"	SunCoat	Intercept	4th Surface	Argon	0.24	0.30	0.54	NC	-	0.24	0.27	0.48	NC	-	0.24	0.24	0.43	NC	-
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.26	0.20	0.47	SC, S	Yes	0.26	0.19	0.42	SC, S	Yes	0.26	0.17	0.37	SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.23	0.20	0.47	NC, SC, S	Yes	0.23	0.18	0.42	NC, SC, S	Yes	0.23	0.17	0.37	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.24	0.49	0.60	N	-	0.24	0.44	0.53	N	-	0.24	0.39	0.47	N	-
7/8"	SunCoat	Foam	Clear	Air	0.31	0.31	0.55	-	-	0.31	0.28	0.49	-	-	0.31	0.25	0.44	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.28	0.30	0.55	-	-	0.28	0.28	0.49	-	-	0.28	0.25	0.44	-	-
7/8"	SunCoatMax	Foam	Clear	Air	0.31	0.23	0.49	S	-	0.31	0.20	0.43	S	-	0.31	0.18	0.38	S	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.28	0.22	0.49	SC, S	Yes	0.28	0.20	0.43	SC, S	Yes	0.28	0.18	0.38	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.26	0.30	0.54	-	-	0.26	0.27	0.48	-	-	0.26	0.25	0.43	-	-
7/8"	SunCoat	Foam	4th Surface	Argon	0.23	0.30	0.54	NC	-	0.23	0.27	0.48	NC	-	0.23	0.24	0.43	NC	-
7/8"	SunCoatMax	Foam	4th Surface	Air	0.26	0.20	0.47	SC, S	Yes	0.26	0.19	0.42	SC, S	Yes	0.26	0.17	0.37	SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.23	0.20	0.47	NC, SC, S	Yes	0.23	0.18	0.42	NC, SC, S	Yes	0.23	0.17	0.37	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Air	0.26	0.49	0.60	N	-	0.26	0.44	0.53	N	-	0.26	0.40	0.48	N	-
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.24	0.49	0.60	N	-	0.24	0.44	0.53	N	-	0.24	0.39	0.47	N	-
Picture Window (slider frame)																			
7/8"	SunCoat	Intercept	Clear	Air	0.31	0.31	0.55	-	-	0.31	0.28	0.49	-	-	0.31	0.25	0.44	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.27	0.30	0.55	-	-	0.27	0.27	0.49	-	-	0.27	0.25	0.44	-	-
7/8"	SunCoatMax	Intercept	Clear	Air	0.31	0.21	0.48	S	-	0.31	0.19	0.43	S	-	0.31	0.17	0.38	S	-



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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
7/8"	SunCoatMax	Intercept	Clear	Argon	0.27	0.20	0.48	SC, S	Yes	0.27	0.18	0.43	SC, S	Yes	0.27	0.17	0.38	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.25	0.30	0.54	NC	-	0.25	0.27	0.48	NC	-	0.25	0.24	0.43	NC	-
7/8"	SunCoat	Intercept	4th Surface	Argon	0.23	0.30	0.54	NC	-	0.23	0.27	0.48	NC	-	0.23	0.24	0.43	NC	-
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.25	0.20	0.47	NC, SC, S	Yes	0.25	0.18	0.42	NC, SC, S	Yes	0.25	0.17	0.37	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.23	0.20	0.47	NC, SC, S	Yes	0.23	0.18	0.42	NC, SC, S	Yes	0.23	0.16	0.37	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Air	0.26	0.49	0.60	N	-	0.26	0.44	0.54	N	-	0.26	0.40	0.48	N	-
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.24	0.49	0.60	N	-	0.24	0.44	0.54	N	-	0.24	0.39	0.47	N	-
7/8"	SunCoat	Foam	Clear	Air	0.31	0.31	0.55	-	-	0.31	0.28	0.49	-	-	0.31	0.25	0.44	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.27	0.30	0.55	-	-	0.27	0.27	0.49	-	-	0.27	0.25	0.44	-	-
7/8"	SunCoatMax	Foam	Clear	Air	0.30	0.21	0.48	S	Yes	0.30	0.19	0.43	S	Yes	0.30	0.17	0.38	S	Yes
7/8"	SunCoatMax	Foam	Clear	Argon	0.27	0.20	0.48	SC, S	Yes	0.27	0.18	0.43	SC, S	Yes	0.27	0.17	0.38	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.25	0.30	0.54	NC	-	0.25	0.27	0.48	NC	-	0.25	0.24	0.43	NC	-
7/8"	SunCoat	Foam	4th Surface	Argon	0.23	0.30	0.54	NC	-	0.23	0.27	0.48	NC	-	0.23	0.24	0.43	NC	-
7/8"	SunCoatMax	Foam	4th Surface	Air	0.25	0.20	0.47	SC, S	Yes	0.25	0.18	0.42	NC, SC, S	Yes	0.25	0.17	0.37	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.22	0.20	0.47	NC, SC, S	Yes	0.22	0.18	0.42	NC, SC, S	Yes	0.22	0.16	0.37	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Air	0.26	0.49	0.60	N	-	0.26	0.44	0.54	N	-	0.26	0.40	0.48	N	-
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.23	0.49	0.60	N	-	0.23	0.44	0.54	N	-	0.23	0.39	0.47	N	-
Casement																			
7/8"	SunCoat	Intercept	Clear	Air	0.30	0.26	0.47	-	-	0.30	0.24	0.43	-	-	0.30	0.22	0.38	S	Yes
7/8"	SunCoat	Intercept	Clear	Argon	0.27	0.26	0.47	-	-	0.27	0.24	0.43	-	-	0.27	0.22	0.38	SC, S	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.30	0.19	0.42	S	Yes	0.30	0.18	0.38	S	Yes	0.30	0.16	0.34	S	Yes
7/8"	SunCoatMax	Intercept	Clear	Argon	0.27	0.19	0.42	SC, S	Yes	0.27	0.18	0.38	SC, S	Yes	0.27	0.16	0.34	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.26	0.26	0.46	-	-	0.26	0.24	0.42	NC	-	0.26	0.22	0.38	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Argon	0.24	0.26	0.46	NC	-	0.24	0.24	0.42	NC	-	0.24	0.21	0.38	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.25	0.17	0.40	NC, SC, S	Yes	0.25	0.16	0.36	NC, SC, S	Yes	0.25	0.15	0.33	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.23	0.17	0.40	NC, SC, S	Yes	0.23	0.16	0.36	NC, SC, S	Yes	0.23	0.15	0.33	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Air	0.26	0.43	0.52	N	-	0.26	0.39	0.47	-	-	0.26	0.35	0.43	-	-
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.24	0.43	0.52	N	-	0.24	0.39	0.47	N	-	0.24	0.35	0.43	N	-
7/8"	SunCoat	Foam	Clear	Air	0.30	0.26	0.47	-	-	0.30	0.24	0.43	-	-	0.30	0.22	0.38	S	Yes
7/8"	SunCoat	Foam	Clear	Argon	0.27	0.26	0.47	-	-	0.27	0.24	0.43	-	-	0.27	0.22	0.38	SC, S	Yes
7/8"	SunCoatMax	Foam	Clear	Air	0.30	0.19	0.42	S	Yes	0.30	0.18	0.38	S	Yes	0.30	0.16	0.34	S	Yes
7/8"	SunCoatMax	Foam	Clear	Argon	0.27	0.19	0.42	SC, S	Yes	0.27	0.18	0.38	SC, S	Yes	0.27	0.16	0.34	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.26	0.26	0.46	-	-	0.26	0.24	0.42	NC	-	0.26	0.22	0.38	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.24	0.26	0.46	NC	-	0.24	0.24	0.42	NC	-	0.24	0.21	0.38	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.25	0.17	0.40	NC, SC, S	Yes	0.25	0.16	0.36	NC, SC, S	Yes	0.25	0.15	0.33	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.23	0.17	0.40	NC, SC, S	Yes	0.23	0.16	0.36	NC, SC, S	Yes	0.23	0.15	0.33	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Air	0.24	0.43	0.52	N	-	0.25	0.39	0.47	-	-	0.25	0.35	0.43	-	-
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.23	0.43	0.52	N	-	0.23	0.39	0.47	N	-	0.23	0.35	0.43	N	-
Awning																			
7/8"	SunCoat	Intercept	Clear	Air	0.31	0.26	0.47	-	-	0.31	0.24	0.43	-	-	0.31	0.22	0.38	S	-
7/8"	SunCoat	Intercept	Clear	Argon	0.27	0.26	0.47	-	-	0.27	0.24	0.43	-	-	0.27	0.22	0.38	SC, S	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.30	0.19	0.42	S	Yes	0.30	0.18	0.38	S	Yes	0.30	0.16	0.34	S	Yes
7/8"	SunCoatMax	Intercept	Clear	Argon	0.27	0.19	0.42	SC, S	Yes	0.27	0.18	0.38	SC, S	Yes	0.27	0.16	0.34	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.26	0.26	0.46	-	-	0.26	0.24	0.42	-	-	0.26	0.22	0.38	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Argon	0.24	0.26	0.46	NC	-	0.24	0.24	0.42	NC	-	0.24	0.21	0.38	NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.26	0.18	0.40	SC, S	Yes	0.26	0.16	0.36	SC, S	Yes	0.26	0.15	0.33	SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.24	0.17	0.40	NC, SC, S	Yes	0.24	0.16	0.36	NC, SC, S	Yes	0.24	0.15	0.33	NC, SC, S	Yes
7/8"	Cardinal 180	Intercept	4th Surface	Argon	0.25	0.43	0.52	N	-	0.25	0.39	0.47	-	-	0.25	0.35	0.43	-	-
7/8"	SunCoat	Foam	Clear	Air	0.30	0.26	0.47	-	-	0.30	0.24	0.43	-	-	0.30	0.22	0.38	S	Yes
7/8"	SunCoat	Foam	Clear	Argon	0.27	0.26	0.47	-	-	0.27	0.24	0.43	-	-	0.27	0.22	0.38	SC, S	Yes

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



V400 Tuscany® Series Thermal Chart

Revision Date: 8/3/2023

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
7/8"	SunCoatMax	Foam	Clear	Air	0.30	0.19	0.42	S	Yes	0.30	0.18	0.38	S	Yes	0.30	0.16	0.34	S	Yes
7/8"	SunCoatMax	Foam	Clear	Argon	0.27	0.19	0.42	SC, S	Yes	0.27	0.18	0.38	SC, S	Yes	0.27	0.16	0.34	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.26	0.26	0.46	-	-	0.26	0.24	0.42	-	-	0.26	0.22	0.38	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.24	0.26	0.46	NC	-	0.24	0.24	0.42	NC	-	0.24	0.21	0.38	NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.26	0.18	0.40	SC, S	Yes	0.26	0.16	0.36	SC, S	Yes	0.26	0.15	0.33	SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.23	0.17	0.40	NC, SC, S	Yes	0.23	0.16	0.36	NC, SC, S	Yes	0.23	0.15	0.33	NC, SC, S	Yes
7/8"	Cardinal 180	Foam	4th Surface	Air	0.26	0.43	0.52	N	-	0.26	0.39	0.47	-	-	0.26	0.35	0.43	-	-
7/8"	Cardinal 180	Foam	4th Surface	Argon	0.24	0.43	0.52	N	-	0.24	0.39	0.47	N	-	0.24	0.35	0.43	N	-
Sliding Patio Door																			
7/8"	SunCoat	Intercept	Clear	Air	0.32	0.29	0.54	-	-	0.32	0.26	0.48	-	-	0.32	0.23	0.41	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.29	0.29	0.54	-	-	0.29	0.26	0.48	-	-	0.29	0.23	0.41	-	Yes
7/8"	SunCoatMax	Intercept	Clear	Air	0.32	0.22	0.50	-	-	0.32	0.19	0.44	-	-	0.32	0.17	0.38	-	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.28	0.22	0.50	SC, S	Yes	0.28	0.19	0.44	SC, S	Yes	0.28	0.17	0.38	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Air	0.27	0.29	0.53	-	-	0.27	0.25	0.47	-	-	0.27	0.22	0.41	SC, S	Yes
7/8"	SunCoat	Intercept	4th Surface	Argon	0.24	0.28	0.53	N, NC	-	0.24	0.25	0.47	N, NC	-	0.24	0.22	0.41	N, NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.26	0.21	0.49	SC, S	Yes	0.26	0.19	0.43	N, NC, SC, S	Yes	0.26	0.17	0.37	N, NC, SC, S	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.24	0.21	0.49	N, NC, SC, S	Yes	0.24	0.19	0.43	N, NC, SC, S	Yes	0.24	0.17	0.37	N, NC, SC, S	Yes
7/8"	SunCoat	Foam	Clear	Air	0.32	0.29	0.54	-	-	0.32	0.26	0.48	-	-	0.32	0.23	0.41	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.28	0.29	0.54	-	-	0.28	0.26	0.48	-	-	0.28	0.23	0.41	SC, S	Yes
7/8"	SunCoatMax	Foam	Clear	Air	0.32	0.22	0.50	-	-	0.32	0.19	0.44	-	-	0.32	0.17	0.38	-	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.28	0.22	0.50	SC, S	Yes	0.28	0.19	0.44	SC, S	Yes	0.28	0.17	0.38	SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Air	0.26	0.29	0.53	N, NC	-	0.26	0.25	0.47	N, NC	-	0.26	0.22	0.41	N, NC, SC, S	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.24	0.28	0.53	N, NC	-	0.24	0.25	0.47	N, NC	-	0.22	0.22	0.41	N, NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.26	0.21	0.49	N, NC, SC, S	Yes	0.26	0.19	0.43	N, NC, SC, S	Yes	0.26	0.17	0.37	N, NC, SC, S	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.24	0.21	0.49	N, NC, SC, S	Yes	0.24	0.19	0.43	N, NC, SC, S	Yes	0.24	0.17	0.37	N, NC, SC, S	Yes
Inswing Patio Door																			
7/8"	SunCoat	Intercept	Clear	Air	0.36	0.22	0.40	-	-	0.36	0.19	0.34	-	-	0.36	0.17	0.29	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.33	0.22	0.40	-	-	0.33	0.19	0.34	-	-	0.33	0.17	0.29	-	-
7/8"	SunCoatMax	Intercept	Clear	Air	0.36	0.17	0.37	-	-	0.36	0.15	0.32	-	-	0.36	0.13	0.27	-	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.33	0.17	0.37	-	-	0.33	0.14	0.32	-	-	0.33	0.13	0.27	-	-
7/8"	SunCoat	Intercept	4th Surface	Air	0.31	0.22	0.39	-	-	0.31	0.19	0.34	-	-	0.31	0.16	0.28	-	-
7/8"	SunCoat	Intercept	4th Surface	Argon	0.30	0.22	0.39	-	Yes	0.30	0.19	0.34	-	Yes	0.30	0.16	0.28	-	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.31	0.16	0.36	-	-	0.31	0.14	0.31	-	-	0.31	0.13	0.26	-	-
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.30	0.16	0.36	-	Yes	0.30	0.14	0.31	-	Yes	0.30	0.12	0.26	-	Yes
7/8"	SunCoat	Foam	Clear	Air	0.35	0.22	0.40	-	-	0.35	0.19	0.34	-	-	0.35	0.17	0.29	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.33	0.22	0.40	-	-	0.33	0.19	0.34	-	-	0.33	0.17	0.29	-	-
7/8"	SunCoatMax	Foam	Clear	Air	0.35	0.17	0.37	-	-	0.35	0.15	0.32	-	-	0.35	0.13	0.27	-	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.32	0.17	0.37	-	-	0.32	0.14	0.32	-	-	0.32	0.13	0.27	-	-
7/8"	SunCoat	Foam	4th Surface	Air	0.31	0.22	0.39	-	-	0.31	0.19	0.34	-	-	0.31	0.16	0.28	-	-
7/8"	SunCoat	Foam	4th Surface	Argon	0.29	0.22	0.39	-	Yes	0.29	0.19	0.34	-	Yes	0.29	0.16	0.28	-	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.31	0.16	0.36	-	-	0.31	0.14	0.31	-	-	0.31	0.13	0.26	-	-
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.29	0.16	0.39	-	Yes	0.29	0.14	0.31	-	Yes	0.29	0.12	0.26	-	Yes
Outswing Patio Door																			
7/8"	SunCoat	Intercept	Clear	Air	0.35	0.22	0.40	-	-	0.35	0.20	0.34	-	-	0.35	0.17	0.29	-	-
7/8"	SunCoat	Intercept	Clear	Argon	0.32	0.22	0.40	-	-	0.32	0.19	0.34	-	-	0.32	0.17	0.29	-	-
7/8"	SunCoatMax	Intercept	Clear	Air	0.35	0.17	0.37	-	-	0.35	0.15	0.32	-	-	0.35	0.13	0.27	-	-
7/8"	SunCoatMax	Intercept	Clear	Argon	0.32	0.17	0.37	-	-	0.32	0.15	0.32	-	-	0.32	0.13	0.27	-	-
7/8"	SunCoat	Intercept	4th Surface	Air	0.31	0.22	0.39	-	-	0.31	0.19	0.34	-	-	0.31	0.17	0.28	-	-
7/8"	SunCoat	Intercept	4th Surface	Argon	0.29	0.22	0.39	-	Yes	0.29	0.19	0.34	-	Yes	0.29	0.17	0.28	-	Yes
7/8"	SunCoatMax	Intercept	4th Surface	Air	0.30	0.17	0.36	-	Yes	0.30	0.15	0.31	-	Yes	0.30	0.13	0.26	-	Yes

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V400 Tuscany® Series Thermal Chart

Revision Date: 8/3/2023

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
7/8"	SunCoatMax	Intercept	4th Surface	Argon	0.29	0.17	0.36	-	Yes	0.29	0.15	0.31	-	Yes	0.29	0.13	0.26	-	Yes
7/8"	SunCoat	Foam	Clear	Air	0.35	0.22	0.40	-	-	0.35	0.20	0.34	-	-	0.35	0.17	0.29	-	-
7/8"	SunCoat	Foam	Clear	Argon	0.32	0.22	0.40	-	-	0.32	0.19	0.34	-	-	0.32	0.17	0.29	-	-
7/8"	SunCoatMax	Foam	Clear	Air	0.34	0.17	0.37	-	-	0.34	0.15	0.32	-	-	0.34	0.13	0.27	-	-
7/8"	SunCoatMax	Foam	Clear	Argon	0.32	0.17	0.37	-	-	0.32	0.15	0.32	-	-	0.32	0.13	0.27	-	-
7/8"	SunCoat	Foam	4th Surface	Air	0.30	0.22	0.39	-	Yes	0.30	0.19	0.34	-	Yes	0.30	0.17	0.28	-	Yes
7/8"	SunCoat	Foam	4th Surface	Argon	0.29	0.22	0.39	-	Yes	0.29	0.19	0.34	-	Yes	0.29	0.17	0.28	-	Yes
7/8"	SunCoatMax	Foam	4th Surface	Air	0.30	0.17	0.36	-	Yes	0.30	0.15	0.31	-	Yes	0.30	0.13	0.26	-	Yes
7/8"	SunCoatMax	Foam	4th Surface	Argon	0.28	0.17	0.36	SC, S	Yes	0.28	0.15	0.31	SC, S	Yes	0.28	0.13	0.26	SC, S	Yes

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