

Sun Windows, Inc.

Product Performance Data

Clad Thermal Performance (Cardinal 270, 366, E180 and i89)

NFRC 100/200/500

SunClad Sash Set Fixed Lite

Product	Grid Type	az	gl	cl	Glazing Description	U-Value	R-Value	SHGC	VT	CR
USA Sash Set Fixed	N	DG	D		3/4" I.G.; 270 #2/Clr	0.30	3.33	0.30	0.57	58
USA Sash Set Fixed	N	DG	D		3/4" I.G.; 270 #2/i89 #4	0.26	3.85	0.30	0.56	47
USA Sash Set Fixed	N	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.30	3.33	0.30	0.42	58
USA Sash Set Fixed	N	DG	D		3/4" I.G.; 366 #2/clr	0.30	3.33	0.23	0.52	59
USA Sash Set Fixed	N	DG	D		3/4" I.G.; 366 #2/i89 #4	0.26	3.85	0.22	0.51	47
USA Sash Set Fixed	N	DG	D		3/4" I.G.; Bronze tint/366 #3	0.30	3.33	0.25	0.39	59
USA Sash Set Fixed	N	DG	D		3/4" I.G.; Clr / E180 #3	0.34	2.94	0.56	0.64	58
USA Sash Set Fixed	N	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.27	3.70	0.28	0.52	64
USA Sash Set Fixed	N	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.24	4.17	0.28	0.51	51
USA Sash Set Fixed	N	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.26	3.85	0.21	0.48	64
USA Sash Set Fixed	N	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.23	4.35	0.21	0.47	51
USA Sash Set Fixed	N	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.27	3.70	0.28	0.50	67
USA Sash Set Fixed	N	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.27	3.70	0.21	0.46	67
USA Sash Set Fixed	N	TG	D		.50" I.G.+819" A.S.; 270 #2/Clr/Clr	0.30	3.33	0.25	0.46	64
USA Sash Set Fixed	N	TG	D		.50" I.G.+819" A.S.; 270 #2/Clr/i89 #6	0.26	3.85	0.25	0.45	52
USA Sash Set Fixed	N	TG	D		.50" I.G.+81" A.S.; 366 #2/Clr/Clr	0.29	3.45	0.19	0.43	64
USA Sash Set Fixed	N	TG	D		.50" I.G.+819" A.S.; 366 #2/Clr/i89 #6	0.26	3.85	0.19	0.42	52
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; 270 #2/Clr	0.32	3.13	0.27	0.51	58
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; 270 #2/i89 #4	0.27	3.70	0.27	0.50	47
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.32	3.13	0.27	0.37	58
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; 366 #2/clr	0.31	3.23	0.21	0.47	59
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; 366 #2/i89 #4	0.27	3.70	0.20	0.46	47
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; Bronze tint/366 #3	0.31	3.23	0.23	0.35	59
USA Sash Set Fixed	GBG	DG	D		3/4" I.G.; Clr / E180 #3	0.35	2.86	0.50	0.57	58
USA Sash Set Fixed	GBG	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.28	3.57	0.26	0.46	64
USA Sash Set Fixed	GBG	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.25	4.00	0.25	0.45	51
USA Sash Set Fixed	GBG	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.28	3.57	0.19	0.43	64
USA Sash Set Fixed	GBG	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.25	4.00	0.19	0.42	51
USA Sash Set Fixed	GBG	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.28	3.57	0.25	0.45	67
USA Sash Set Fixed	GBG	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.28	3.57	0.19	0.41	67
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 270 #2/Clr	0.32	3.13	0.27	0.51	58
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 270 #2/i89 #4	0.27	3.70	0.27	0.50	47
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.32	3.13	0.27	0.37	58
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 366 #2/clr	0.31	3.23	0.21	0.47	59
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 366 #2/i89 #4	0.27	3.70	0.20	0.46	47
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; Bronze tint/366 #3	0.31	3.23	0.23	0.35	59
USA Sash Set Fixed	5/8" SDL	DG	D		3/4" I.G.; Clr / E180 #3	0.35	2.86	0.50	0.57	58
USA Sash Set Fixed	5/8" SDL	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.28	3.57	0.26	0.46	64
USA Sash Set Fixed	5/8" SDL	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.25	4.00	0.25	0.45	51
USA Sash Set Fixed	5/8" SDL	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.28	3.57	0.19	0.43	64
USA Sash Set Fixed	5/8" SDL	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.25	4.00	0.19	0.42	51
USA Sash Set Fixed	5/8" SDL	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.28	3.57	0.25	0.45	67
USA Sash Set Fixed	5/8" SDL	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.28	3.57	0.19	0.41	67
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 270 #2/Clr	0.32	3.13	0.25	0.45	58
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 270 #2/i89 #4	0.27	3.70	0.24	0.44	47
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.32	3.13	0.24	0.33	58
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 366 #2/clr	0.31	3.23	0.19	0.42	59
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 366 #2/i89 #4	0.27	3.70	0.18	0.41	47
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; Bronze tint/366 #3	0.31	3.23	0.21	0.31	59
USA Sash Set Fixed	>=1" SDL	DG	D		3/4" I.G.; Clr / E180 #3	0.35	2.86	0.45	0.51	58
USA Sash Set Fixed	>=1" SDL	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.26	3.85	0.23	0.41	64
USA Sash Set Fixed	>=1" SDL	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.25	4.00	0.23	0.40	51
USA Sash Set Fixed	>=1" SDL	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.28	3.57	0.17	0.38	64
USA Sash Set Fixed	>=1" SDL	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.25	4.00	0.17	0.37	51
USA Sash Set Fixed	>=1" SDL	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.28	3.57	0.23	0.40	67
USA Sash Set Fixed	>=1" SDL	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.28	3.57	0.17	0.37	67

* all simulations are 90% Argon filled, unless noted otherwise

**"DG" = Dual Glazed; "TG" = Triple Glazed

Glass codes(nominal): "D" - double strength(.117"/3.0mm), "T" - triple strength(.187"/5.0mm)

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