

Sun Windows, Inc.

Product Performance Data

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

NFRC 100/200/500

SunClad Direct Set Replacement

Product	Grid Type	az	glaz	flas	Glazing Description	U-Value	R-Value	SHGC	VT	CR
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; 270 #2/Clr	0.29	3.45	0.33	0.63	57
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; 270 #2/i89 #4	0.24	4.17	0.33	0.62	46
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.29	3.45	0.33	0.47	57
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; 366 #2/Clr	0.28	3.57	0.25	0.58	58
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; 366 #2/i89 #4	0.24	4.17	0.24	0.57	46
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; Bronze tint/366 #3	0.28	3.57	0.28	0.44	58
USA Repl. Direct Set Fixed	N	DG	D		3/4" I.G.; Clr / E180 #3	0.30	3.33	0.62	0.71	57
USA Repl. Direct Set Fixed	N	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.25	4.00	0.31	0.58	63
USA Repl. Direct Set Fixed	N	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.22	4.55	0.30	0.56	50
USA Repl. Direct Set Fixed	N	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.25	4.00	0.23	0.53	63
USA Repl. Direct Set Fixed	N	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.22	4.55	0.22	0.52	50
USA Repl. Direct Set Fixed	N	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.22	4.55	0.30	0.55	67
USA Repl. Direct Set Fixed	N	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.22	4.55	0.22	0.51	67
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; 270 #2/Clr	0.30	3.33	0.30	0.57	57
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; 270 #2/i89 #4	0.26	3.85	0.30	0.55	46
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.30	3.33	0.30	0.42	57
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; 366 #2/Clr	0.30	3.33	0.22	0.52	58
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; 366 #2/i89 #4	0.25	4.00	0.22	0.51	46
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; Bronze tint/366 #3	0.30	3.33	0.25	0.39	58
USA Repl. Direct Set Fixed	GBG	DG	D		3/4" I.G.; Clr / E180 #3	0.31	3.23	0.56	0.64	57
USA Repl. Direct Set Fixed	GBG	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.27	3.70	0.28	0.52	63
USA Repl. Direct Set Fixed	GBG	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.23	4.35	0.27	0.51	50
USA Repl. Direct Set Fixed	GBG	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.26	3.85	0.21	0.48	63
USA Repl. Direct Set Fixed	GBG	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.23	4.35	0.21	0.47	50
USA Repl. Direct Set Fixed	GBG	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.23	4.35	0.27	0.50	67
USA Repl. Direct Set Fixed	GBG	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.23	4.35	0.21	0.46	67
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 270 #2/Clr	0.30	3.33	0.30	0.57	57
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 270 #2/i89 #4	0.26	3.85	0.30	0.55	46
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.30	3.33	0.30	0.42	57
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 366 #2/Clr	0.30	3.33	0.22	0.52	58
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; 366 #2/i89 #4	0.25	4.00	0.22	0.51	46
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; Bronze tint/366 #3	0.30	3.33	0.25	0.39	58
USA Repl. Direct Set Fixed	5/8" SDL	DG	D		3/4" I.G.; Clr / E180 #3	0.31	3.23	0.56	0.64	57
USA Repl. Direct Set Fixed	5/8" SDL	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.27	3.70	0.28	0.52	63
USA Repl. Direct Set Fixed	5/8" SDL	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.23	4.35	0.27	0.51	50
USA Repl. Direct Set Fixed	5/8" SDL	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.26	3.85	0.21	0.48	63
USA Repl. Direct Set Fixed	5/8" SDL	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.23	4.35	0.21	0.47	50
USA Repl. Direct Set Fixed	5/8" SDL	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.23	4.35	0.27	0.50	67
USA Repl. Direct Set Fixed	5/8" SDL	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.23	4.35	0.21	0.46	67
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 270 #2/Clr	0.30	3.33	0.27	0.51	57
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 270 #2/i89 #4	0.26	3.85	0.27	0.49	46
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; Bronze Tint/270 #3	0.30	3.33	0.27	0.38	57
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 366 #2/Clr	0.30	3.33	0.20	0.47	58
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; 366 #2/i89 #4	0.25	4.00	0.20	0.46	46
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; Bronze tint/366 #3	0.30	3.33	0.23	0.35	58
USA Repl. Direct Set Fixed	>=1" SDL	DG	D		3/4" I.G.; Clr / E180 #3	0.31	3.23	0.50	0.57	57
USA Repl. Direct Set Fixed	>=1" SDL	TG	D		.98" I.G.; 270 #2/Clr/Clr	0.27	3.70	0.25	0.46	63
USA Repl. Direct Set Fixed	>=1" SDL	TG	D		.98" I.G.; 270 #2/Clr/i89 #6	0.23	4.35	0.25	0.45	50
USA Repl. Direct Set Fixed	>=1" SDL	TG	D		.98" I.G.; 366 #2/Clr/Clr	0.26	3.85	0.19	0.43	63
USA Repl. Direct Set Fixed	>=1" SDL	TG	D		.98" I.G.; 366 #2/Clr/i89 #6	0.23	4.35	0.19	0.42	50
USA Repl. Direct Set Fixed	>=1" SDL	TG	D		.98" I.G.; 270 #2/Clr/E180 #5	0.23	4.35	0.25	0.45	67
USA Repl. Direct Set Fixed	>=1" SDL	TG	D		.98" I.G.; 366 #2/Clr/E180 #5	0.23	4.35	0.19	0.41	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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