Sun Windows, Inc.
Product Performance Data
Clad Thermal Performance (Cardinal 270, 366, E180 and i89)

NFRC 100/200/500

SunClad Direct Set Radius

Product	Grid Type	Glazing	Glass	Glazing Description	U-Value	R-Value	SHGC	VT	CR
USA Direct Set Radius	N	DG	D	3/4" I.G.; 270 #2/Clr	0.28	3.57	0.33	0.63	57
USA Direct Set Radius	N	DG	D	3/4" I.G.; 270 #2/i89 #4	0.24	4.17	0.33	0.61	45
USA Direct Set Radius	N	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.28	3.57	0.33	0.47	58
USA Direct Set Radius	N	DG	D	3/4" I.G.; 366 #2/clr	0.28	3.57	0.25	0.58	58
USA Direct Set Radius	N	DG	D	3/4" I.G.; 366 #2/i89 #4	0.23	4.35	0.24	0.57	46
USA Direct Set Radius	N	DG	D	3/4" I.G.; Bronze tint/366 #3	0.28	3.57	0.28	0.44	58
USA Direct Set Radius	N	DG	D	3/4" I.G.; Clr / E180 #3	0.29	3.45	0.62	0.71	57
USA Direct Set Radius	N	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.24	4.17	0.31	0.58	63
USA Direct Set Radius	N	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.21	4.76	0.30	0.56	50
USA Direct Set Radius	N	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.24	4.17	0.23	0.53	63
USA Direct Set Radius	N	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.21	4.76	0.22	0.52	50
USA Direct Set Radius	N	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.21	4.76	0.30	0.55	67
USA Direct Set Radius	N	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.21	4.76	0.22	0.51	67
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; 270 #2/Clr	0.29	3.45	0.30	0.57	57
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; 270 #2/i89 #4	0.25	4.00	0.30	0.55	45
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.29	3.45	0.30	0.42	58
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; 366 #2/clr	0.29	3.45	0.22	0.52	58
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; 366 #2/i89 #4	0.24	4.17	0.22	0.51	46
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; Bronze tint/366 #3	0.29	3.45	0.26	0.39	58
USA Direct Set Radius	GBG	DG	D	3/4" I.G.; Clr / E180 #3	0.30	3.33	0.56	0.64	57
USA Direct Set Radius	GBG	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.26	3.85	0.28	0.52	63
USA Direct Set Radius	GBG	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.22	4.55	0.27	0.51	50
USA Direct Set Radius	GBG	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.25	4.00	0.21	0.48	63
USA Direct Set Radius	GBG	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.22	4.55	0.20	0.47	50
USA Direct Set Radius	GBG	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.22	4.55	0.27	0.50	67
USA Direct Set Radius	GBG	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.22	4.55	0.20	0.46	67
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; 270 #2/Clr	0.28	3.57	0.30	0.57	57
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; 270 #2/i89 #4	0.24	4.17	0.30	0.55	45
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.28	3.57	0.30	0.42	58
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; 366 #2/clr	0.28	3.57	0.22	0.52	58
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; 366 #2/i89 #4	0.23	4.35	0.22	0.51	46
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; Bronze tint/366 #3	0.28	3.57	0.26	0.39	58
USA Direct Set Radius	< 1" SDL	DG	D	3/4" I.G.; Clr / E180 #3	0.29	3.45	0.56	0.64	57
USA Direct Set Radius	< 1" SDL	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.25	4.00	0.28	0.52	63
USA Direct Set Radius	< 1" SDL	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.21	4.76	0.27	0.51	50
USA Direct Set Radius	< 1" SDL	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.24	4.17	0.21	0.48	63
USA Direct Set Radius	< 1" SDL	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.21	4.76	0.20	0.47	50
USA Direct Set Radius	< 1" SDL	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.21	4.76	0.27	0.50	67
USA Direct Set Radius	< 1" SDL	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.21	4.76	0.20	0.46	67
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; 270 #2/Clr	0.29	3.45	0.27	0.51	57
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; 270 #2/i89 #4	0.25	4.00	0.27	0.49	45
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.29	3.45	0.27	0.38	58
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; 366 #2/clr	0.29	3.45	0.20	0.47	58
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; 366 #2/i89 #4	0.24	4.17	0.20	0.46	46
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; Bronze tint/366 #3	0.29	3.45	0.23	0.35	58
USA Direct Set Radius	≥ 1" SDL	DG	D	3/4" I.G.; Clr / E180 #3	0.30	3.33	0.50	0.57	57
USA Direct Set Radius	≥ 1" SDL	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.26	3.85	0.25	0.46	63
USA Direct Set Radius	≥ 1" SDL	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.22	4.55	0.25	0.45	50
USA Direct Set Radius	≥ 1" SDL	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.25	4.00	0.19	0.43	63
USA Direct Set Radius	≥ 1" SDL	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.22	4.55	0.19	0.42	50
USA Direct Set Radius	≥ 1" SDL	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.22	4.55	0.25	0.44	67
USA Direct Set Radius	≥ 1" SDL	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.22	4.55	0.19	0.41	67

Updated: 5/2/2025