

Sun Windows, Inc.

Product Performance Data

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

NFRC 100/200/500

SunClad Casement

Product	Grid Type	lazi	glas	Glazing Description	U-Value	R-Value	SHGC	VT	CR
USA Casement	N	DG	D	3/4" I.G.; 270 #2/Clr	0.34	2.94	0.27	0.50	59
USA Casement	N	DG	D	3/4" I.G.; 270 #2/i89 #4	0.30	3.33	0.26	0.49	47
USA Casement	N	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.34	2.94	0.26	0.37	59
USA Casement	N	DG	D	3/4" I.G.; 366 #2/Clr	0.33	3.03	0.20	0.46	59
USA Casement	N	DG	D	3/4" I.G.; 366 #2/i89 #4	0.30	3.33	0.20	0.45	48
USA Casement	N	DG	D	3/4" I.G.; Bronze tint/366 #3	0.33	3.03	0.23	0.34	59
USA Casement	N	DG	D	3/4" I.G.; Clr / E180 #3	0.34	2.94	0.49	0.56	58
USA Casement	N	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.30	3.33	0.25	0.45	63
USA Casement	N	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.27	3.70	0.25	0.44	50
USA Casement	N	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.30	3.33	0.19	0.42	63
USA Casement	N	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.27	3.70	0.18	0.41	51
USA Casement	N	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.27	3.70	0.25	0.44	66
USA Casement	N	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.27	3.70	0.18	0.40	66
USA Casement	N	TG	D	.50" I.G.+819" A.S.; 270 #2/Clr/Clr	0.32	3.13	0.22	0.40	65
USA Casement	N	TG	D	.50" I.G.+819" A.S.; 270 #2/Clr/i89 #6	0.29	3.45	0.22	0.39	51
USA Casement	N	TG	D	.50" I.G.+81" A.S.; 366 #2/Clr/Clr	0.32	3.13	0.17	0.37	65
USA Casement	N	TG	D	.50" I.G.+819" A.S.; 366 #2/Clr/i89 #6	0.29	3.45	0.17	0.36	51
USA Casement	GBG	DG	D	3/4" I.G.; 270 #2/Clr	0.35	2.86	0.25	0.45	59
USA Casement	GBG	DG	D	3/4" I.G.; 270 #2/i89 #4	0.31	3.23	0.24	0.44	47
USA Casement	GBG	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.35	2.86	0.24	0.33	59
USA Casement	GBG	DG	D	3/4" I.G.; 366 #2/Clr	0.34	2.94	0.19	0.42	59
USA Casement	GBG	DG	D	3/4" I.G.; 366 #2/i89 #4	0.31	3.23	0.18	0.41	48
USA Casement	GBG	DG	D	3/4" I.G.; Bronze tint/366 #3	0.34	2.94	0.21	0.31	59
USA Casement	GBG	DG	D	3/4" I.G.; Clr / E180 #3	0.35	2.86	0.45	0.51	58
USA Casement	GBG	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.31	3.23	0.23	0.41	63
USA Casement	GBG	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.28	3.57	0.23	0.40	50
USA Casement	GBG	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.31	3.23	0.17	0.38	63
USA Casement	GBG	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.28	3.57	0.17	0.37	51
USA Casement	GBG	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.28	3.57	0.23	0.40	66
USA Casement	GBG	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.28	3.57	0.17	0.37	66
USA Casement	5/8" SDL	DG	D	3/4" I.G.; 270 #2/Clr	0.35	2.86	0.25	0.45	59
USA Casement	5/8" SDL	DG	D	3/4" I.G.; 270 #2/i89 #4	0.31	3.23	0.24	0.44	47
USA Casement	5/8" SDL	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.35	2.86	0.24	0.33	59
USA Casement	5/8" SDL	DG	D	3/4" I.G.; 366 #2/Clr	0.34	2.94	0.19	0.42	59
USA Casement	5/8" SDL	DG	D	3/4" I.G.; 366 #2/i89 #4	0.31	3.23	0.18	0.41	48
USA Casement	5/8" SDL	DG	D	3/4" I.G.; Bronze tint/366 #3	0.34	2.94	0.21	0.31	59
USA Casement	5/8" SDL	DG	D	3/4" I.G.; Clr / E180 #3	0.35	2.86	0.45	0.51	58
USA Casement	5/8" SDL	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.31	3.23	0.23	0.41	63
USA Casement	5/8" SDL	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.28	3.57	0.23	0.40	50
USA Casement	5/8" SDL	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.31	3.23	0.17	0.38	63
USA Casement	5/8" SDL	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.28	3.57	0.17	0.37	51
USA Casement	5/8" SDL	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.28	3.57	0.23	0.40	66
USA Casement	5/8" SDL	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.28	3.57	0.17	0.37	66
USA Casement	>=1" SDL	DG	D	3/4" I.G.; 270 #2/Clr	0.35	2.86	0.23	0.41	59
USA Casement	>=1" SDL	DG	D	3/4" I.G.; 270 #2/i89 #4	0.31	3.23	0.22	0.40	47
USA Casement	>=1" SDL	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.35	2.86	0.22	0.30	59
USA Casement	>=1" SDL	DG	D	3/4" I.G.; 366 #2/Clr	0.34	2.94	0.17	0.37	59
USA Casement	>=1" SDL	DG	D	3/4" I.G.; 366 #2/i89 #4	0.31	3.23	0.17	0.37	48
USA Casement	>=1" SDL	DG	D	3/4" I.G.; Bronze tint/366 #3	0.34	2.94	0.19	0.28	59
USA Casement	>=1" SDL	DG	D	3/4" I.G.; Clr / E180 #3	0.35	2.86	0.41	0.46	58
USA Casement	>=1" SDL	TG	D	.98" I.G.; 270 #2/Clr/Clr	0.31	3.23	0.21	0.37	63
USA Casement	>=1" SDL	TG	D	.98" I.G.; 270 #2/Clr/i89 #6	0.28	3.57	0.21	0.36	50
USA Casement	>=1" SDL	TG	D	.98" I.G.; 366 #2/Clr/Clr	0.31	3.23	0.16	0.34	63
USA Casement	>=1" SDL	TG	D	.98" I.G.; 366 #2/Clr/i89 #6	0.28	3.57	0.16	0.33	51
USA Casement	>=1" SDL	TG	D	.98" I.G.; 270 #2/Clr/E180 #5	0.28	3.57	0.21	0.36	66
USA Casement	>=1" SDL	TG	D	.98" I.G.; 366 #2/Clr/E180 #5	0.28	3.57	0.16	0.33	66

\* 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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