



Sun Windows, Inc.

Product Performance Data

Clad Thermal Performance (Cardinal 270, 366, E180 and i89)
NFRC 100/200/500

SunClad Patriot Casement

Product	Grid Type	Glazing	Glass	Glazing Description	U-Value	R-Value	SHGC	VT	CR
Patriot Casement	N	DG	D	3/4" I.G.; 270 #2/Clr	0.26	3.85	0.25	0.46	62
Patriot Casement	N	DG	D	3/4" I.G.; 270 #2/i89 #4	0.23	4.35	0.24	0.45	49
Patriot Casement	N	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.26	3.85	0.25	0.35	62
Patriot Casement	N	DG	D	3/4" I.G.; 366 #2/Clr	0.26	3.85	0.18	0.43	63
Patriot Casement	N	DG	D	3/4" I.G.; 366 #2/i89 #4	0.23	4.35	0.18	0.42	50
Patriot Casement	N	DG	D	3/4" I.G.; Bronze tint/366 #3	0.26	3.85	0.21	0.32	63
Patriot Casement	N	DG	D	3/4" I.G.; Clr / E180 #3	0.27	3.70	0.46	0.52	62
Patriot Casement	N	TG	D	1.375" I.G.; 270 #2/Clr/Clr	0.21	4.76	0.23	0.42	72
Patriot Casement	N	TG	D	1.375" I.G.; 270 #2/Clr/i89 #6	0.19	5.26	0.23	0.41	59
Patriot Casement	N	TG	D	1.375" I.G.; 366 #2/Clr/Clr	0.21	4.76	0.17	0.39	72
Patriot Casement	N	TG	D	1.375" I.G.; 366 #2/Clr/i89 #6	0.19	5.26	0.23	0.41	59
Patriot Casement	N	TG	D	1.375" I.G.; 270 #2/Clr/E180 #5	0.17	5.88	0.22	0.41	80
Patriot Casement	N	TG	D	1.375" I.G.; 366 #2/Clr/E180 #5	0.17	5.88	0.17	0.38	80
Patriot Casement	GBG	DG	D	3/4" I.G.; 270 #2/Clr	0.27	3.70	0.23	0.42	62
Patriot Casement	GBG	DG	D	3/4" I.G.; 270 #2/i89 #4	0.24	4.17	0.22	0.41	49
Patriot Casement	GBG	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.27	3.70	0.23	0.31	62
Patriot Casement	GBG	DG	D	3/4" I.G.; 366 #2/Clr	0.27	3.70	0.17	0.39	63
Patriot Casement	GBG	DG	D	3/4" I.G.; 366 #2/i89 #4	0.23	4.35	0.17	0.38	50
Patriot Casement	GBG	DG	D	3/4" I.G.; Bronze tint/366 #3	0.27	3.70	0.19	0.29	63
Patriot Casement	GBG	DG	D	3/4" I.G.; Clr / E180 #3	0.28	3.57	0.42	0.47	62
Patriot Casement	GBG	TG	D	1.375" I.G.; 270 #2/Clr/Clr	0.22	4.55	0.21	0.38	72
Patriot Casement	GBG	TG	D	1.375" I.G.; 270 #2/Clr/i89 #6	0.20	5.00	0.21	0.37	59
Patriot Casement	GBG	TG	D	1.375" I.G.; 366 #2/Clr/Clr	0.22	4.55	0.16	0.35	72
Patriot Casement	GBG	TG	D	1.375" I.G.; 366 #2/Clr/i89 #6	0.20	5.00	0.21	0.37	59
Patriot Casement	GBG	TG	D	1.375" I.G.; 270 #2/Clr/E180 #5	0.18	5.56	0.20	0.37	80
Patriot Casement	GBG	TG	D	1.375" I.G.; 366 #2/Clr/E180 #5	0.18	5.56	0.15	0.34	80
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; 270 #2/Clr	0.27	3.70	0.23	0.42	62
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; 270 #2/i89 #4	0.24	4.17	0.22	0.41	50
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.27	3.70	0.23	0.31	62
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; 366 #2/Clr	0.27	3.70	0.17	0.39	63
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; 366 #2/i89 #4	0.24	4.17	0.17	0.38	50
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; Bronze tint/366 #3	0.27	3.70	0.19	0.29	63
Patriot Casement	5/8" SDL	DG	D	3/4" I.G.; Clr / E180 #3	0.28	3.57	0.42	0.47	62
Patriot Casement	5/8" SDL	TG	D	1.375" I.G.; 270 #2/Clr/Clr	0.22	4.55	0.21	0.38	72
Patriot Casement	5/8" SDL	TG	D	1.375" I.G.; 270 #2/Clr/i89 #6	0.20	5.00	0.21	0.37	48
Patriot Casement	5/8" SDL	TG	D	1.375" I.G.; 366 #2/Clr/Clr	0.21	4.76	0.16	0.35	59
Patriot Casement	5/8" SDL	TG	D	1.375" I.G.; 366 #2/Clr/i89 #6	0.20	5.00	0.21	0.37	57
Patriot Casement	5/8" SDL	TG	D	1.375" I.G.; 270 #2/Clr/E180 #5	0.18	5.56	0.20	0.37	59
Patriot Casement	5/8" SDL	TG	D	1.375" I.G.; 366 #2/Clr/E180 #5	0.18	5.56	0.15	0.34	64
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; 270 #2/Clr	0.27	3.70	0.21	0.38	62
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; 270 #2/i89 #4	0.25	4.00	0.20	0.37	50
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; Bronze Tint/270 #3	0.27	3.70	0.21	0.28	62
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; 366 #2/Clr	0.26	3.85	0.15	0.35	63
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; 366 #2/i89 #4	0.24	4.17	0.15	0.34	50
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; Bronze tint/366 #3	0.26	3.85	0.18	0.26	63
Patriot Casement	>=1" SDL	DG	D	3/4" I.G.; Clr / E180 #3	0.27	3.70	0.38	0.42	62
Patriot Casement	>=1" SDL	TG	D	1.375" I.G.; 270 #2/Clr/Clr	0.21	4.76	0.19	0.34	72
Patriot Casement	>=1" SDL	TG	D	1.375" I.G.; 270 #2/Clr/i89 #6	0.20	5.00	0.19	0.34	59
Patriot Casement	>=1" SDL	TG	D	1.375" I.G.; 366 #2/Clr/Clr	0.21	4.76	0.14	0.32	72
Patriot Casement	>=1" SDL	TG	D	1.375" I.G.; 366 #2/Clr/i89 #6	0.20	5.00	0.19	0.34	59
Patriot Casement	>=1" SDL	TG	D	1.375" I.G.; 270 #2/Clr/E180 #5	0.18	5.56	0.19	0.33	80
Patriot Casement	>=1" SDL	TG	D	1.375" I.G.; 366 #2/Clr/E180 #5	0.17	5.88	0.14	0.31	80