



**NFRC TESTING
THERMAL PERFORMANCE DATA**

GLASS TYPE <i>All values based on 3.0mm (1/8") glass.</i>	U VALUE	R-VALUE	CRF	SOLAR HEAT GAIN	VISIBLE LIGHT TRANSMITTANCE
				w/o grids	w/o grids
				w/grids	w/grids

Revised 2/15/2010

2100 Series Casement

Comfort Shield LowE-II Argon (Cardinal 272)	.28	3.57	57	.28 .26	.48 .43
Comfort Shield LowE-366 Argon (Cardinal 366)	.27	3.70	57	.19 .17	.43 .39
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.21 .22	4.76 4.55	69 69	.23 .21	.38 .34
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.21 .22	4.76 4.55	69 69	.15 .14	.31 .28

2100 Series Awning

Comfort Shield LowE-II Argon (Cardinal 272)	.28	3.57	59	.28 .26	.48 .43
Comfort Shield LowE-366 Argon (Cardinal 366)	.27	3.70	60	.19 .17	.43 .39
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.22	4.55	68	.23 .21	.38 .34
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.21 .22	4.76 4.55	69 69	.15 .14	.31 .28

2100 Series Picture

Comfort Shield LowE-II Argon (Cardinal 272)	.26	3.85	58	.33 .30	.56 .50
Comfort Shield LowE-366 Argon (Cardinal 366)	.26	3.85	58	.22 .20	.51 .45
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.19 .20	5.26 5.00	68 68	.26 .24	.45 .40
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.18 .19	5.56 5.26	68 68	.17 .16	.36 .32



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				w/o grids	w/o grids
				w/grids	w/grids

2100 Series Roundtop

Comfort Shield LowE-II Argon (Cardinal 272)	.28	3.57	58	.36 .33	.63 .57
Comfort Shield LowE-366 Argon (Cardinal 366)	.27	3.70	58	.24 .22	.57 .51
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.19 .21	5.26 4.76	68 68	.29 .26	.50 .45
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.19 .20	5.26 5.00	68 68	.19 .17	.41 .37

8000 Series Double Hung

Comfort Shield LowE-II Argon (Cardinal 272)	.30	3.33	60	.29 .26	.51 .45
Comfort Shield LowE-366 Argon (Cardinal 366)	.30	3.33	60	.20 .18	.45 .40
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.26	3.85	64	.24 .21	.40 .36
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.25 .26	4.00 3.85	64 64	.16 .14	.33 .29

8020 Series Slider

Comfort Shield LowE-II Argon (Cardinal 272)	.31	3.23	58	.31 .27	.53 .47
Comfort Shield LowE-366 Argon (Cardinal 366)	.30	3.33	59	.20 .18	.48 .42
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.26 .27	3.85 3.70	64 64	.24 .22	.42 .37
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.26 .27	3.85 3.70	64 64	.16 .15	.34 .30



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				w/o grids	w/o grids
5000 Series Patio Door					
				w/grids	w/grids
Comfort Shield LowE-II Argon (Cardinal 272)	.31	3.23	56	.32 .28	.55 .48
Comfort Shield LowE-366 Argon (Cardinal 366)	.30	3.33	56	.21 .19	.50 .43
Comfort Shield PLUS Triple Glazed Argon (Cardinal 272)	.23 .25	4.35 4.00	62 62	.25 .23	.44 .38
Comfort Shield PLUS Triple Glazed Argon (Cardinal 366)	.23 .24	4.35 4.17	63 63	.17 .15	.36 .31