

MODEL 8100/9100

CASEMENT - REPLACEMENT & NEW CONSTRUCTION



STRUCTURAL TEST DATA

FOR EGRESS SIZES ON THE FOLLOWING WINDOWS:

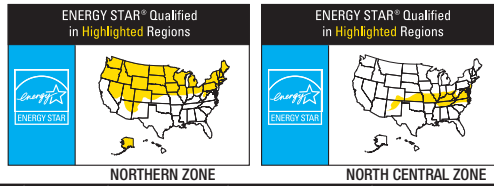
- These Sizes Also Meet Minimum 20" Clear Egress Width And 24" Clear Egress Height

MODEL	SIZE	GLASS TYPE	FORCED ENTRY RESISTANCE	AIR INFILTRATION SCFM/FT	PRODUCT DESIGNATION	DESIGN PRESSURE	MAXIMUM WATER PRESSURE ACHIEVED	MAXIMUM STRUCTURAL PRESSURE ACHIEVED	MANUFACTURED SIZE REQUIRED TO MEET 5.7 SF EGRESS
8100/9100	32 X 60	7/8 DUAL DSB	GRADE 10	0.01	C-LC45	45.11 PSF	6.89 PSF	67.67 PSF	30 1/4 X 46 With Washability Hinge 27 1/4 X 46 With Egress Hinge
8100/9100	32 X 60	7/8 TRIPLE SSB	GRADE 10	0.01	C-LC45	45.11 PSF	6.89 PSF	67.67 PSF	30 1/4 X 46 With Washability Hinge 27 1/4 X 46 With Egress Hinge

THERMAL PROPERTIES

FOR ALL OF THE FOLLOWING WINDOWS:

- Dual Glass consists of one light RLE 70/36 & one light clear
- Triple Glass consists of two lights RLE 70/36 & one light clear
- All air spaces contain Argon Gas



ENERGY KING PLUS 8100 / 9100 CASEMENTS

CASEMENT 8100/9100	GLAZING OPTION	FOAM FILLED YES / NO	GRIDS YES / NO	U-VALUE	R-VALUE	SOLAR HEAT GAIN COEFFICIENT	CONDENSATION RESISTANCE	VISUAL TRANSMITTANCE	2016 ENERGY STAR LABEL	
									NORTHERN ZONE	NORTH CENTRAL ZONE
¹ Guardian Climaguard 70/36 Surface 2		DUAL GLAZED DOUBLE STRENGTH GLASS						√ = Qualified		
	7/8 Low-E ¹ Argon Dual DSB	Yes	No	0.24	4.16	0.25	63	0.47	√	√
	7/8 Low-E ¹ Argon Dual DSB	Yes	Yes	0.24	4.16	0.23	63	0.42	√	√
	7/8 Low-E ¹ Argon Dual DSB	No	No	0.27	3.70	0.25	62	0.47	√	√
	7/8 Low-E ¹ Argon Dual DSB	No	Yes	0.27	3.70	0.23	62	0.42	√	√
³ Tempered Comfort Select 73 Surface 2		DUAL GLAZED DOUBLE STRENGTH GLASS								
	7/8 Low-E ³ Argon Dual DSB	Yes	No	0.27	3.70	0.44	60	0.50	√	-
	7/8 Low-E ³ Argon Dual DSB	Yes	Yes	0.27	3.70	0.40	60	0.45	√	√
	7/8 Low-E ³ Argon Dual DSB	No	No	0.29	3.44	0.44	59	0.50	√	-
	7/8 Low-E ³ Argon Dual DSB	No	Yes	0.29	3.44	0.40	59	0.45	√	√
² Guardian Climaguard 70/36 Surface 2 & 4		TRIPLE GLAZED STANDARD STRENGTH GLASS								
	7/8 Low-E ² Argon Dual SSB	Yes	No	0.19	5.26	0.20	70	0.37	√	√
	7/8 Low-E ² Argon Dual SSB	Yes	Yes	0.20	5.00	0.18	70	0.33	√	√
	7/8 Low-E ² Argon Dual SSB	No	No	0.22	4.54	0.20	69	0.37	√	√
	7/8 Low-E ² Argon Dual SSB	No	Yes	0.22	4.54	0.18	69	0.33	√	√



MODELS
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9100 NEW CONSTRUCTION

GLOSSARY OF TERMS

U VALUE – The rate of heat flow through a glazing system: the lower the value, the better the insulating quality.

R VALUE – The resistance to temperature change through a glazing system, the higher the value, the better the insulating quality.

SOLAR HEAT GAIN – The percentage of heat gained from both direct sunlight and absorbed heat. The smaller the number, the greater the ability to reduce solar heat gain.

CONDENSATION RESISTANCE FACTOR – A measure of the effectiveness of window or glazing system to reduce the potential for condensation. The higher the condensation resistance factor, the more efficient the window and glazing system.

VISIBLE TRANSMITTANCE – The percentage of light that is transmitted through glass in the visible light spectrum. The higher the number the higher the percentage of visible light transmitted through the window.