



Energy Efficiency

U-Value Details

	AAMA - Structural				NFRC						AAMA - Structural			
	Performance Class				U-Factor		SHGC		VT		Performance Class			
	2003		2007		2003	2007	2003	2007	2003	2007	2007			
		Size		Size	Numbers are LE272 with SuperSpacer & Argon							Size	QTI Report #	Report Date
2600 SH	LC25	48 x 77	LC25	48 x 77	0.30	0.29	0.32	0.33	0.55	0.56	LC25	48 x 77	S2007-488	7/11/2007
2700 XO or OX	R15	156 x 60	R20	72 x 72	0.30	0.28	0.32	0.32	0.55	0.56	R20	72 x 72	S2007-407	7/10/2007
2800 XOX	R15	156 x 60	R20	120 x 60	0.30	0.28	0.32	0.32	0.55	0.56	R20	120 x 60	S2007-493	7/9/2007
2900 PW	C30	120 x 72	C35	120 x 72	0.28	0.28	0.41	0.35	0.60	0.60	C35	120 x 72	S2007-095	4/3/2007
3600 SH	LC25	48 x 77	LC25	48 x 77	0.29	0.28	0.32	0.32	0.54	0.55	LC25	48 x 77	S2007-490	7/9/2007
3700 XO or OX	R20	156 x 60	R20	72 x 72	0.29	0.28	0.32	0.32	0.54	0.55	R20	72 x 72	S2007-501	7/11/2007
3800 XOX	R20	156 x 60	LC25	120 x 60	0.29	0.28	0.32	0.32	0.54	0.55	LC25	120 x 60	S2007-491	7/11/2007
3900 PW	HC40	120 x 72	HC40	108 x 72	0.27	0.27	0.33	0.33	0.57	0.58	HC40	108 x 72	S2007-093	4/3/2007
8750/8850 XO & XOX	R15	156 x 60	R25	120 x 60	0.30	0.30	0.30	0.31	0.52	0.53	R25	120 x 60	S2007-082	3/30/2007
8600 DH	LC25	48 x 77	LC25	48 x 77	0.30	0.30	0.30	0.30	0.52	0.52	LC25	48 x 77	S2007-090	7/2/2007
8700	R20	69 x 48	R20	69 x 48	0.31	0.31	0.30	0.31	0.52	0.52	R20	69 x 48	S2007-092	4/3/2007
8900 PW	HC40	120 x 72	HC40	108 x 72	0.27	0.27	0.33	0.33	0.57	0.57	HC40	108 x 72	S2007-094	4/3/2007
4600 CS	C30	36 x 60	C35	36 x 60	0.33	0.31	0.25	0.24	0.41	0.41	C35	36 x 60	S2007-497	8/6/2007
4700 AW	C40	60 x 36	C40	60 x 36	0.33	0.30	0.25	0.24	0.41	0.41	C40	60 x 36	S2007-498	8/6/2007
5200 PD	R20	96 x 96	R20	96 x 96	0.29	0.29	0.34	0.34	0.58	0.59	R20	96 x 96	S2007-495	8/14/2007
5200 PD Wide	R20	96 x 96	R20	96 x 96	0.30	0.30	0.29	0.29	0.49	0.50	R20	96 x 96	S2007-502	8/13/2007

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	NFRC - Thermal						
	U-factor	SHGC	VT	(LE272/ Clear w/argon w/superspacer no grids)			
	2007						
			QTI Report #	Report Date	QTI Sim Report #	Report Date	
2600 SH	0.29	0.33	0.56	T2007- 448	6/15/2007	C2007- 698	10/09/2007
2700 XO or OX	0.28	0.32	0.56	T2007- 448	6/15/2007	C2007- 691	10/10/2007
2800 XOX	0.28	0.32	0.56	"	"	"	"
2900 PW	0.28	0.35	0.60	T2007- 484	6/26/2007	C2007- 672	09/21/2007
3600 SH	0.28	0.32	0.55	T2007- 445	6/15/2007	C2007- 688	10/11/2007
3700 XO or OX	0.28	0.32	0.55	T2007- 445	6/15/2007	C2007- 690	10/11/2007
3800 XOX	0.28	0.32	0.55	"	"	"	"
3900 PW	0.27	0.33	0.58	T2007- 489	6/27/2007	C2007- 598	9/19/2007
8750/8850 XO & XOX	0.30	0.31	0.53	T2007- 477	6/22/2007	C2007- 600	10/15/2007
8600 DH	0.30	0.30	0.52	T2007- 464	6/20/2007	C2007- 687	10/11/2007
8700	0.31	0.31	0.52	T2007- 464	6/20/2007	C2007- 686	10/10/2007
8900 PW	0.27	0.33	0.57	T2007- 494	6/28/2007	C2007- 673	9/20/2007
4600 CS	0.31	0.24	0.41	T2007- 545	7/19/2007	C2007- 685	10/15/2007
4700 AW	0.30	0.24	0.41	"	"	C2007- 683	10/15/2007
5200 PD	0.29	0.34	0.59	T2007- 611	8/29/2007	C2007- 670	9/21/2007
5200 PD	0.30	0.29	0.50	"	"	C2007- 671	10/01/2007



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2007		Performance Class or Design Pressure PSF	2007	BTU/HR		Solar Heat Gain Coefficients		Visible Light Transmittance	
AAMA			NFRC						
Series	Structural Rating	Configuration	U-Factor	W/Grids	SHGC	W/Grids	VT	W/Grids	
Finale		5/8" SuperSpacer			LE 272/366		LE 272/366		
				grids >= 1"		grids >= 1"		grids >= 1"	
9100	Double Hung	44 x 60	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.51/ .46	.45/ .40
no Rebar		LC35							
9100	Double Hung	48 x 78	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.51/ .46	.45/ .40
no Rebar		LC25							
9100	Double Hung	48 x 78	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.51/ .46	.45/ .40
interlock rebar		LC30	aluminum rebar in the upper and lower sash interlocks; also a double screwed 'L' shaped screen retaining clip on the sill						
9100	Double Hung	48 x 78	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.51/ .46	.45/ .40
rebar all		LC35	aluminum rebar in the upper and lower sash interlocks; weep slots in each sash bottom rail aluminum rebar in the upper and lower sash stiles; also a double screwed 'L' shaped screen retaining clip on the sill						
9100	Double Hung	144 x 78	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.51/ .46	.45/ .40
3 mulled w/ rebar	3/ 48 x 78	LC30	jamb mulled/ fastened together with 10 x 1 1/4" screws, 2 rows 2" apart (4", 6", 26", 28", 49", 51", 70" and 72") from the head) with the interior and exterior snap in mullon. sash with rebar in both interlocks						
9100	Double Hung	144 x 78	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.51/ .46	.45/ .40
3 mullmore rebar	3/ 48 x 78	LC35	jamb mulled/ fastened together with 10 x 1 1/4" screws, 2 rows 2" apart (4", 6", 26", 28", 49", 51", 70" and 72") from the head) with the interior and exterior snap in mullon. sash with rebar in stiles and interlocks						
9150	DH - PW	96 x 72	LE 272/ 366 / Clear Argon	0.27	0.29	.31/ .21	.28/ .19	.54/ .49	.47/ .43
	(slope still PW)	LC25							
9150	DH - PW	96 x 72	LE 272/ 366 / Clear Argon	0.27	0.29	.31/ .21	.28/ .19	.54/ .49	.47/ .43
add reforc	(slope still PW)	LC30	using silicone sealant along sill to fixed panel joint and 6" up each jamb to jamb stile joints. the bottom rail was retained with a full length wood filler and screws into the sash and sill as opposed to 4 metal clips.						
9150	DH - PW	60 x 60	LE 272/ 366 / Clear Argon	0.27	0.29	.31/ .21	.28/ .19	.54/ .49	.47/ .43
	(slope still PW)	LC50							

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9200	Direct Set PW	96 x 72	LE 272/ 366 / Clear Argon	0.26	0.28	.37/ .24	.33/ .22	.64/ .58	.57/ .51
		C30							
9200	Direct Set PW	72 x 72	LE 272/ 366 / Clear Argon	0.26	0.28	.37/ .24	.33/ .22	.64/ .58	.57/ .51
		C60							
9200	Direct Set PW	144 x 78	LE 272/ 366 / Clear Argon	0.26	0.28	.37/ .24	.33/ .22	.64/ .58	.57/ .51
3 mull no rebar	3- 48 x 78	LC30	Installation modifications - nail fin set in silicone fastened with 8 x 1 PH located 1" from corners and 7" on center also 4 -2 1/2" x 2 1/2" x 1/8" aluminum angle clips 3" long where installed at each mullion with 4- 8 x 1 1/2" screws						
9200	Direct Set PW	144 x 78	LE 272/ 366 / Clear Argon	0.26	0.28	.37/ .24	.33/ .22	.64/ .58	.57/ .51
3 mull no rebar	3- 48 x 78	LC35	the above plus installing 2- 8 x 2" screws 38" from the sill, centered on each jamb to secure the jambs to the test buck.						
9200	Direct Set PW	144 x 78	LE 272/ 366 / Clear Argon	0.26	0.28	.37/ .24	.33/ .22	.64/ .58	.57/ .51
3 mull no rebar	3- 48 x 78	LC40	installing 6- 8 x 2" screws 18", 38" and 58" from sill.						
9200	Direct Set PW	144 x 78	LE 272/ 366 / Clear Argon	0.26	0.28	.37/ .24	.33/ .22	.64/ .58	.57/ .51
3 mull w/ rebar	3- 48 x 78	HC65	same installation methods as above with aluminum rebar 2 1/2" x 1/4" thick located along the entire height within each mull joint.						
9300	Transom PW	96 x 70	LE 272/ 366 / Clear Argon	0.27	0.28	.32/ .21	.29/ .19	.56/ .50	.49/ .44
		C30							
9300	Transom PW	72 x 72	LE 272/ 366 / Clear Argon	0.27	0.28	.32/ .21	.29/ .19	.56/ .50	.49/ .44
		C35							
9300	Transom PW	60 x 60	LE 272/ 366 / Clear Argon	0.27	0.28	.32/ .21	.29/ .19	.56/ .50	.49/ .44
		C45							
9400	Awning	60 x 36	LE 272/ 366 / Clear Argon	0.26	0.27	.30/ .20	.27/ .18	.51/ .46	.45/ .41
		C30							
9500	Casement	36 x 72	LE 272/ 366 / Clear Argon	0.26	0.27	.30/ .20	.27/ .18	.51/ .46	.45/ .41
		C35							
9500	Casement	36 x 60	LE 272/ 366 / Clear Argon	0.26	0.27	.30/ .20	.27/ .18	.51/ .46	.45/ .41
		C40							
9500	Casement	33 x 71	LE 272/ 366 / Clear Argon	0.26	0.27	.30/ .20	.27/ .18	.51/ .46	.45/ .41
		C50							

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9550	Casement PW	72 x 72	LE 272/ 366 / Clear Argon	0.26	0.27	.30/ .20	.27/ .18	.51/ .46	.45/ .41
		HC40							
9550	Casement PW	60 x 60	LE 272/ 366 / Clear Argon	0.26	0.27	.30/ .20	.27/ .18	.51/ .46	.45/ .41
		HC50							
9700	Sliding Window	72 x 72	LE 272/ 366 / Clear Argon	0.29	0.30	.31/ .20	.27/ .18	.53/ .47	.46/ .41
XO or OX		LC25							
9800	Sliding Window	120 x 72	LE 272/ 366 / Clear Argon	0.29	0.30	.31/ .20	.27/ .18	.53/ .47	.46/ .41
XOX		R15							
92PD	Patio Door	96 x 96	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.52/ .47	.45/ .40
XO		C30							
93PD	Patio Door	96 x 96	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.52/ .47	.45/ .40
OXO		LC25							
94PD	Patio Door	96 x 96	LE 272/ 366 / Clear Argon	0.29	0.30	.30/ .20	.26/ .18	.52/ .47	.45/ .40
OXXO		LC25							