

Product Selection Guide



Commercial Windows, Doors and Terrace Doors for Retrofit and New Construction



(top) Two Metropolitan and Acadia Three Met, Arlington, VA
Series 500, 550, 825, 9910, 1401F - Dark Gray (front) Sandstone (back)
(bottom) GreenArch Apartments, Tulsa, OK - Series 526, 550, 1401, 9910 - Clear Anodized

(top) Bennett Park Apts, Rosslyn, VA - Series 515, 525, 750, 900, 9900, 1400 - Creme
(bottom) Aspen Heights, Austin, TX - Series 750, 4150, 4125, 1400
Dove Gray and Satin

Windows

Series	Description	AAMA Rating	Uniform Structural Load (psf)	Air Infiltration (cfm/sq.ft.)	Water Resistance (psf)	U-factor ¹	STC Rating	Frame Depth	Max I.G. Thickness
500H	Single Hung Tilt ✓	CW30	45	.09	6.75	.47 / .38 / .36	30-36 ◊	2 ⁵ / ₈ " or 3 ¹ / ₄ "	7 ⁷ / ₈ " •
515	Single Hung Tilt ✓	CW50△	75	.13	7.5	.47 / .39 / .37	30-36 ◊	2 ⁵ / ₈ " or 3 ¹ / ₄ "	7 ⁷ / ₈ " •
515C	Single Hung Tilt ✓	AW50	75	.22	10	.47 / .39 / .37	30-36 ◊	2 ⁵ / ₈ "	7 ⁷ / ₈ " •
515D	Single Hung Tilt ✓	CW60	90	.13	9	.47 / .39 / .37	30-36 ◊	2 ⁵ / ₈ " or 3 ¹ / ₄ "	7 ⁷ / ₈ " •
4100	Single Hung Side Load ✓	AW75	112.5	.29	12	.52 / .42 / .39	34	4"	1" •
700	Double Hung Tilt ✓	CW30	60	.10	6	.50 / .40 / .39	30-34	3 ¹ / ₄ "	7 ⁷ / ₈ " •
710	Double Hung Tilt ✓	CW40	60	.13	6	.51 / .41 / .40	30-34	3 ¹ / ₄ "	7 ⁷ / ₈ " •
715	Double Hung Tilt ✓	CW60	90	.09	9	.52 / .42 / .41	30-34	3 ¹ / ₄ "	7 ⁷ / ₈ " •
525H	Single Horizontal Slider ✓	CW30	67.5	.04	6.75	.45 / .37 / .34	29-36 ◊	2 ⁵ / ₈ " or 3 ¹ / ₄ "	7 ⁷ / ₈ " •
526C	Single Horizontal Slider ✓	CW45	67.5	.06	10.5	.47 / .38 / .35	29-36 ◊	2 ⁵ / ₈ " or 3 ¹ / ₄ "	7 ⁷ / ₈ " •
526D	Single Horizontal Slider ✓	CW70	105	.08	10.5	.47 / .38 / .35	29-36 ◊	2 ⁵ / ₈ " or 3 ¹ / ₄ "	7 ⁷ / ₈ " •
725	Double Horizontal Slider ✓	CW30	67.5	.06	6.75	.51 / .41 / .40		3 ¹ / ₄ "	7 ⁷ / ₈ " •
4125	Double Horizontal Slider ✓	AW60	90	.15	12	.59 / .51 / .49		4"	1" •
800	Single Outswing Casement ✓	AW70	105	.04	12	.54 / .46 / .43	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
800U	Single Outswing Casement ✓	AW70	105	.04	12	.46 / .39 / .32	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
810	Dual Outswing Casement	AW70	105	.04	12	.54 / .46 / .43	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
820	Single Inswing Casement	AW80	120	.07	12	.54 / .46 / .43	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
900	Single Outswing Casement ✓	CW60	90	.02	12	.55 / .48 / .47	34	3 ¹ / ₄ "	7 ⁷ / ₈ " •
910	Dual Outswing Casement ✓	CW60	90	.02	12	.55 / .48 / .47	34	3 ¹ / ₄ "	7 ⁷ / ₈ " •
825	Projected (Awning) ✓	AW80	120	.01	12	.54 / .46 / .43	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
825U	Projected (Awning) ✓	CW70	105	<.01	12	.49 / .39 / .32	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
925	Projected (Awning)	CW60	90	.01	12	.55 / .48 / .47	34	3 ¹ / ₄ "	7 ⁷ / ₈ " •
835	Projected (Hopper) ✓	AW80	120	.03	12	.54 / .46 / .43	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
835U	Projected (Hopper)	⊘				.49 / .39 / .32	31-40 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
875	Fixed over Awning ✓	AW80	120	<.01	12			2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
885	Fixed over Hopper	⊘						2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
1900	Tilt/Turn Casement	AW60	90	<.01	12	.49 / .40 / .37	32-38 ◊	3 ¹ / ₄ "	1 ⁹ / ₁₆ "
550	Fixed ✓ Fl.	CW80/AW80	120	.01	12	.39 / .29 / .27	31-36	2 ⁵ / ₈ "	1" •
750	Fixed ✓	CW80/AW80	120	.01	12	.41 / .32 / .28	31-34	3 ¹ / ₄ "	1" •
850	Fixed ✓	AW75	112.5	<.01	12	.41 / .32 / .29	32-41 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
850U	Fixed ✓	AW80	120	<.01	12	.37 / .28 / .21	32-41 ◊	2 ⁵ / ₈ "	1 ⁹ / ₁₆ "
4150	Fixed ✓	AW80	120	.01	12	.42 / .33 / .30		4"	1" •

- ✓ Forced Entry Tested
- f Fair Housing sill available
- Fl. Florida approved
- ⊘ Tests Pending
- ◊ Laminated glass
- Single Glazed available
- △ Higher performance available

¹ NFRC 100 simulation results from certified testing labs.
 First u-factor: Low-E / Clear insulated glass, aluminum spacer, no argon.
 Second u-factor: Low-E on two surfaces with warm-edge spacer and argon.
 Third u-factor: Low-E / Clear / Low-E triple-glazed unit with warm-edge spacer and argon.
 Many glazing combinations are available. Call our Contract Sales department at (800) 259-7580 for specific values.

Doors

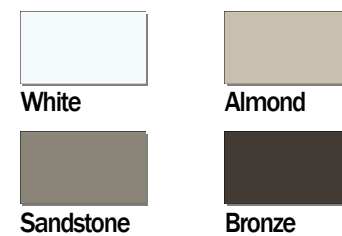
Series	Description	AAMA Rating	Uniform Structural Load (psf)	Air Infiltration (cfm/sq.ft.)	Water Resistance (psf)	U-factor ¹	STC Rating	Frame Depth	Max I.G. Thickness
9910	Sliding Glass Door ✓	CW30	60	.09	7.5	.43 / .33 / .33	31	4 ³ / ₈ "	7 ⁷ / ₈ "
9950	Sliding Glass Door ✓ Fl.	CW50	75	.20	12	.46 / .36 / .34	31-35 ◊	4 ³ / ₈ "	1"
9950B	Sliding Glass Door ✓	CW80	120	.12	12	.46 / .36 / .34	31-35 ◊	4 ³ / ₈ "	1"
9950B5	Sliding Glass Door ✓	AW50	75	.16	12	.46 / .36 / .34	31-35 ◊	4 ³ / ₈ "	1"
9950B8	Sliding Glass Door ✓	AW80	120	.07	12	.46 / .36 / .34	31-35 ◊	4 ³ / ₈ "	1"
9950D	Sliding Glass Door ✓	CW45	75	.20	7.5	.46 / .36 / .34	31-35 ◊	4 ³ / ₈ "	1"
4151	SGD Transom ✓	AW80	120	<.01	12	.43 / .33 / .31		4 ³ / ₈ "	1" •
1401F	Outswing Terrace Door <i>f</i>	AW60	90	<.01	12	.45 / .37 / .35	32-40 ◊	3 ¹ / ₄ "	1 ⁹ / ₁₆ "
1402F	Inswing Terrace Door <i>f</i>	AW60	90	<.01	12	.45 / .37 / .35	32-40 ◊	3 ¹ / ₄ "	1 ⁹ / ₁₆ "
1421F	Dual Outswing Terrace Door <i>f</i>	AW40	60	.01	12	.45 / .37 / .35		3 ¹ / ₄ "	1 ⁹ / ₁₆ "
1422F	Dual Inswing Terrace Door <i>f</i>	AW40	60	.01	12	.45 / .37 / .35		3 ¹ / ₄ "	1 ⁹ / ₁₆ "
1450	Terrace Door Fixed Panel	AW60	90	<.01	12	.40 / .29 / .26		3 ¹ / ₄ "	1 ⁹ / ₁₆ "

Hurricane / Impact Products

Series	Description	Rating / Test Size	Design Pressure (psf)	Uniform Structural Load (psf)	Water Resistance (psf)	Force Protection Qualified (UFC/ATFP)	Frame Depth	Maximum I.G. Thickness
4100	Single Hung Side Load Large and Small Missile	AW75 48" x 84"	+80/-100	+120/-150	12	Yes	4"	1" •
4125	Double Horizontal Slider Large Missile	AW60 89" x 49"	+80/-100	+120/-150	12	Yes	4"	1"
4150	Fixed Large and Small Missile	AW80 48" x 84"	+80/-100	+120/-150	12	Yes	4"	1" •
9950	Sliding Glass Door Fl. Large Missile	CW80 85" x 97"	+60/-60	+90/-90	12		4 ³ / ₈ "	1"
1401	Terrace Door (Outswing) Large Missile	AW60 42" x 96"	+80/-100	+120/-150	12		3 ¹ / ₄ "	1"

AAMA 2604 Powder Coat Finishes*

Tier 1 Colors²



Tier 2 Colors^{3,4}



² No minimum volume requirement for Tier 1 finishes.

³ Minimum volume requirements apply to Tier 2 finishes. 3,000 sq.ft. or more at standard pricing. Smaller quantities are available at an additional cost.

Hardware and vinyl colors are subject to manufacturer specifications.

Colors shown are for general information only. It cannot be assumed that final finishes will match these examples.

* AAMA 2605 finishes are also available.
⁴ Custom colors are available. Minimums apply. Contact us for details.

Anti-Terrorism / Force Protection (ATFP) Products

Series	Description	AAMA Rating	Meets UFC 4-010-01 and ASTM F2248-03*	ASTM 1642/ GSA Protection Level	Frame Depth
4100	Single Hung	AW75	Yes	Minimal Hazard	4"
4125	Double Slider	AW60	Yes	⚡	4"
4150	Fixed	AW80	Yes	Minimal Hazard	4"
750	Fixed	AW80	Yes	⚡	3¼"
800	Single Outswing Casement	AW70	Yes	⚡	2⅝"
825	Projected (Awning)	AW80	Yes	⚡	2⅝"
827	POB over POB (Dual Awning)	AW80	Yes	⚡	2⅝"
850	Fixed	AW75	Yes	⚡	2⅝"
875	Fixed over POB	AW75	Yes	Minimal Hazard	2⅝"

* Per UFC 9 Feb '12 / ASTM 2248

⚡ Tests Pending

About Thermal Windows, Inc.

Thermal Windows, Inc. is well into its fourth decade of quality window design and production. We manufacture energy efficient aluminum windows, sliding glass doors and terrace doors for commercial and residential retrofit and new construction. Founded by Bob G. Pool in 1979, the company has grown steadily to become one of the top window manufacturers in America. Sales and manufacturing operations in Tulsa, Oklahoma occupy over 235,000 sq.ft. There are company showrooms in Tulsa and Oklahoma City, as well as dealers in nearly every state.

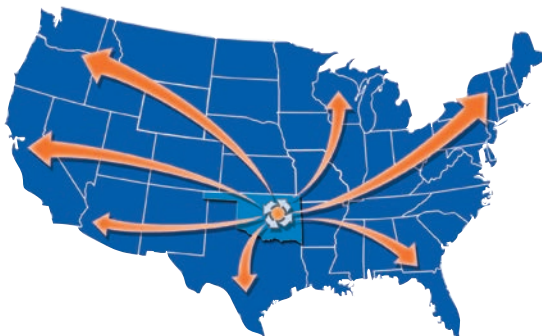


Corporate headquarters, manufacturing plant and showroom in Tulsa, Oklahoma

Our in-house research, design and testing programs provide continuous quality assurance. Our testing equipment is calibrated by a certified AAMA laboratory. All testing is conducted by certified AAMA technicians. In manufacturing, we monitor quality in our powder coat,

debridging and insulating glass facilities to maintain a high degree of control over critical areas of window production. Our insulating glass line consistently provides Class "A" certification I.G. units.

In addition to our commitment to testing and upgrading existing products, we continue to design new products to meet the fenestration needs of the residential, commercial and heavy commercial markets.



Our central location enables us to ship economically throughout the U.S.A.



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Corporate Headquarters & Manufacturing Plant

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