

Beyond Windows. Beyond Doors.™



TRACO®

The Windows And Doors That Greet The World



Flat Iron Building, New York, NY
Architect: Fifield Piaker Architects



Palms Resort, Destin, FL



Del Monte Foods, Pittsburgh, PA
Architect: Strada Architecture



Old Dominion University, Norfolk, VA
Architect: Clark-Nexsen Architecture and Engineering



The Streeter Building, Chicago, IL
Architect: Solomon Cordwell Benz & Associates



Avalon Towers, Mountain View, CA



Washington First Plaza, Jersey City, NJ
Architect: SLCE Architects

Product Selection Guide

8/08

This guide was developed to assist the specifier in choosing the right product for your project based on design pressure and overall performance to ensure a successful and enduring application.

TRACO products are available with a full range of glass, screen, limit lock and muntin choices. Most products can be curved to meet field conditions. In addition, most aluminum surfaces can be coated with the full range of aluminum finishes including paint conforming to AAMA 2603, AAMA 2604, AAMA 2605 or anodize conforming to AAMA 611.

GENERAL CONDITIONS

- TRACO recommends that you review with your TRACO representative the design load, jobsite conditions and product configurations before preparing your plans and specifications, as local laws and building codes governing fenestration products vary widely and are subject to interpretation by various building team members.

- TRACO products are covered by a limited warranty, tested to AAMA voluntary specifications, and most are thermally improved to reduce condensation. Field air and water performance may vary with size changes and field conditions.

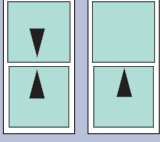
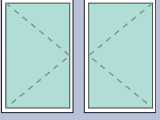
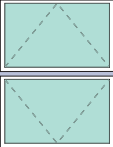
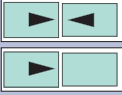
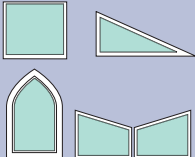

- TRACO reserves the right to change, without prior notice, these drawings and specifications, as TRACO products are constantly modified to meet project requirements.

- TRACO drawings and specifications are published as a public service only, and TRACO disclaims all liability for their use, application or adaptation.

Warranty: TRACO products carry comprehensive warranties available through your design professional.

EXAMPLES OF HISTORIC PANNING AND CUSTOM SURROUNDS



Style	Description	TRACO Model Number	AAMA DESIGNATIONS		Frame Depth	Max. Sash Wt. (Lbs.)
			Standard	Optional		
			"HC"® - Heavy Commercial "C"® - Commercial	"AW"® - Architectural (Option Available)		
DOUBLE OR SINGLE HUNG 	Single Hung Side Load	TR-9100	H-HC40	H-AW40	3-1/4"	70
	Single Hung Side Load	TR-9700	H-HC40	H-AW40	3-1/4"	70
	Double Hung Side Load	TR-9400	H-HC50	H-AW65	4"	80
	Double Hung Side Load	TR-9600	H-HC80	H-AW100	5-1/4"	150
	Double Hung Side Load	TR-9900	H-HC65	H-AW95	4-1/2"	150
	Double Hung Tilt	NX-500	H-C50	N/A	3-1/4"	40
	Double Hung Tilt	NX-501	H-HC40	—	3-1/4"	60
	Double Hung Tilt	TR-5000	H-C45	N/A	3-1/4"	40
	Double Hung Tilt	TR-9000	H-HC45	H-AW45	4"	60/80
	Single Hung Tilt	NX-540	H-C50	—	3-1/4"	40
	Single Hung Tilt	NX-541	H-HC40	—	3-1/4"	60
	Single Hung Tilt	TR-5400	H-C35	N/A	2-3/4"	40
	CASEMENT 	2-1/4" Overlap Outswing	NX-210	C-C50	N/A	2-1/4"
2-1/4" Overlap Inswing		NX-220	C-C50	N/A	2-1/4"	90
3-1/4" Overlap Outswing		NX-310	C-HC40***	—	3-1/4"	116
4-5/8" Flush Outswing		TR-710	C-HC70	C-AW70	4-5/8"	116
4-5/8" Flush Inswing		TR-720	C-HC80	C-AW65	4-5/8"	116
2-1/4" Flush Outswing		TR-2100	C-HC70	C-AW70	2-1/4"	116
2-1/4" Flush Inswing		TR-2200	C-HC80	C-AW65	2-1/4"	116
3-1/4" Overlap Outswing		TR-3100	C-HC80	C-AW65	3-1/4"	90
3-1/4" Overlap Inswing		TR-3200	C-HC80	C-AW70	3-1/4"	90
PROJECTED 		2-1/4" Overlap Project In	NX-240	AP-C50	N/A	2-1/4"
	2-1/4" Overlap Project Out	NX-250	AP-C50	N/A	2-1/4"	90
	3-1/4" Overlap Project Out	NX-350	AP-HC40***	—	3-1/4"	116
	4-5/8" Flush Project In	TR-740	AP-HC80	AP-AW80	4-5/8"	116
	4-5/8" Flush Project Out	TR-750	AP-HC80	AP-AW80	4-5/8"	116
	2-1/4" Flush Project In	TR-2400	AP-HC80	AP-AW80	2-1/4"	162
	2-1/4" Flush Project Out	TR-2500	AP-HC80	AP-AW80	2-1/4"	162
	3-1/4" Overlap Project In	TR-3400	AP-HC80	AP-AW70	3-1/4"	162
	3-1/4" Overlap Project Out	TR-3500	AP-HC80	AP-AW65	3-1/4"	162
	3-1/4" Overlap Top Hinge Inswing	TR-3600	TH-HC50	—	3-1/4"	130
	SLIDING 	3-1/4" Double Slide	NX-600	HS-C50	—	3-1/4"
3-1/4" Double Slide		TR-6000	HS-C45	N/A	3-1/4"	100
4" Double Slide		TR-6300	HS-HC65	HS-AW50	4"	170
3-1/4" Single Slide		NX-640	HS-C50	—	3-1/4"	100
2-3/4" Single Slide		TR-6400	HS-C40	N/A	2-3/4"	100
3-1/4" Single Slide		TR-6800	HS-HC60	HS-AW50	3-1/4"	170
FIXED 		2-1/4" Depth	NX-280	F-C50	N/A	2-1/4"
	3-1/4" Depth	NX-380	F-HC40***	—	3-1/4"	234
	3-1/4" Depth	NX-740	F-C50	N/A	3-1/4"	234
	3-1/4" Depth	NX-741	F-HC50	—	3-1/4"	234
	4-5/8" Depth	TR-780	F-AW65	N/A	4-5/8"	250
	2-1/4" Depth	TR-2800	F-AW65	N/A	2-1/4"	250
	3-1/4" Depth	TR-3800	F-AW100	N/A	3-1/4"	250
	3-1/4" Depth	TR-7100	F-HC50	F-AW80	3-1/4"	250
	2-3/4" Depth	TR-7400	F-C65	N/A	2-3/4"	234
	3-1/4" Depth	TR-7900	F-HC65	F-AW90	3-1/4"	250
	4" Depth	TR-9500	F-HC65	F-AW100	4"	234
	SLIDING OR TERRACE DOORS 	2 Panel	NX-840	SD-C40	—	4-3/8"
2 Panel + Transom or 4 Panel		TR-8300	—	SD-AW50	4-5/8"	208
2, 3 or 4 Panel		TR-8410	SGD-HC40	—	4-1/2"	208
Prehung Outswing		NX-8910	ATD-AW50	—	3 1/4" / 4 5/8"	250
Prehung Inswing		NX-8920	ATD-AW50	—	3 1/4" / 4 5/8"	250

Per AAMA/WDMA/CSA 101/I.S.2/A440-05 Frame or [Vent]	width x height	PERFORMANCE											OPTIONS		
		Air Infiltration (cfm/sq.ft.)	Water Resistance (psf)	Design Pressure (psf)	Deflection (psf)	Structural (psf)	U Value	CR	CRF-frame	CRF-glass	Matching Fixed Frame	Dual Glazed	Interior Blinds	Exterior Flange	
	60" x 99"	.29	10	40	40	60	.51**		56**	62**	TR-7100			•	
	60" x 99"	.06*	15	40	40	60	.51**		56**	62**	TR-7100			•	
	60" x 99"	.27	12	50	50	75	.67		53**	63	TR-9450	•	•	•	
	60" x 99"	.13*	15	80	80	120					TR-9650	•	•	•	
	60" x 99"	.05*	10	65	65	97.5	.57**		49**	61**	TR-9950	•		•	
	56" x 91"	.18*	10	50	50	75	.36**	50**			NX-740			•	
	60" x 99"	.27	8	40	40	60					NX-741			•	
	56" x 91"	.17*	7.5	45	N/A	67.5	.47**		47**	57**	TR-7100			•	
	60" x 99"	.16*	10	45	45	67.5	.48		55	64**	TR-9500	•	•	•	
	56" x 91"	.12*	10	50	N/A	75	.37**	51**			NX-740			•	
	60" x 99"	.29	8	40	40	60					NX-741			•	
	56" x 91"	.27*	5.25	35	N/A	52.5	.47**		50**	61**	TR-7400			•	
	32" x 60"	.04*	10	50	50	75	.38**	44**			NX-280			•	
	32" x 60"	.06*	10	50	50	75	.38**	44**			NX-280			•	
	36" x 60"						.41**	39**			NX-380			•	
	36" x 60"	.02	14	70	70	105	.48**				TR-780	•	•	•	
	36" x 60"	.14	12	80	80	120					TR-780	•	•	•	
	36" x 60"	.02	14	70	70	105					TR-2800	•	•	•	
	36" x 60"	.14	12	80	80	120					TR-2800	•	•	•	
	36" x 60"	.20	12	80	80	120					TR-3800	•	•	•	
	36" x 60"	.08	12	80	80	120					TR-3800	•	•	•	
	48" x 32"	.06*	10	50	N/A	75	.38**	44**			NX-280			•	
	48" x 32"	.11*	10	50	N/A	75	.38**	44**			NX-280			•	
	60" x 32"						.41**	39**			NX-380			•	
	HC [60" x 32"] or AW [60" x 36"]	.14	12	80	80	120					TR-780	•	•	•	
	HC [60" x 32"] or AW [60" x 36"]	.08	12	80	80	120					TR-780	•	•	•	
	HC [60" x 32"] or AW [60" x 36"]	.14	12	80	80	120	.63**		46**	66**	TR-2800	•	•	•	
	HC [60" x 32"] or AW [60" x 36"]	.08	12	80	80	120	.63**		46**	66**	TR-2800	•	•	•	
	HC [60" x 32"] or AW [60" x 36"]	.10	12	80	80	120					TR-3800	•	•	•	
	HC [60" x 32"] or AW [60" x 36"]	.30	12	80	65	120					TR-3800	•	•	•	
	60" x 99"	.06	10	50	50	75					TR-3800	•	•	•	
	71" x 60"	.10*	12.5	50	N/A	75	.38**	49**			NX-740			•	
	71" x 60"	.22*	9	45	N/A	67.5	.58**		49**	58**	TR-7100			•	
	99" x 79"	.07	10	65	65	97.5	.55**		53**		TR-9500	•	•	•	
	71" x 60"	.13*	10	50	N/A	75	.36**	53**			NX-740			•	
	71" x 60"	.10*	6	40	N/A	60	.48**		54**	59**	TR-7400			•	
	99" x 79"	.15	10	60	60	90	.43**		52**	69**	TR-7100	•		•	
	60" x 60"	.03*	10	50	N/A	75	.33**	46**			N/A			•	
	60" x 72"						.32**	42**			N/A			•	
	60" x 60"	.03*	10	50	N/A	75	.31**	53**			N/A			•	
	60" x 72"	.03	10	50	50	75					N/A			•	
	60" x 99"	.03	15	65	65	97.5	.33**		59**	72**	N/A	•	•	•	
	60" x 99"	.03	15	65	60	97.5					N/A	•	•	•	
	60" x 99"	.04	15	100	100	150	.33**				N/A	•	•	•	
	HC [60" x 72"] or AW [60" x 99"]	.07*	7.5	50	50	75	.42**		60**	69**	N/A	•	•	•	
	60" x 60"	.03*	10	65	N/A	97.5					N/A			•	
	HC [60" x 72"] or AW [60" x 99"]	.03	20	65	65	97.5	.42**		60**	69**	N/A			•	
	HC [60" x 72"] or AW [60" x 99"]	.03	10	65	N/A	105					N/A	•	•	•	
	96" x 84"	.12*	6.75	40	N/A	60	.34**	.48**			N/A			•	
	187" x 96"	.09	12	50	50	75	.55**		.58**		TR-8350			•	
	116" x 94"	.09	6	40	N/A	60	.60				N/A			•	
	48" x 96"****	.05	15	50	50	75	.42**	45**			NX-8950			•	
	48" x 96"****	.05	15	50	50	75	.42**	45**			NX-8950			•	

AAMA DESIGNATIONS

① **AAMA Architectural "AW" Class**
Includes: 'Life Cycle' testing
Test Sizes: large sizes, similar to "HC"
Design Pressure Min.: 40 psf
Purpose: very large openings with heavy use
Typical Applications: Educational and Monumental

② **AAMA Heavy Commercial "HC" Class**
Includes: sash removal by maintenance personnel only
Test Sizes: large sizes
Design Pressure Min.: 40 psf
Purpose: large openings with heavy use
Typical Applications: Educational, Historic Replication

③ **AAMA Commercial "C" Class**
Includes: heavy duty (not residential) hardware
Test Sizes: medium sizes
Design Pressure Min.: 30 psf
Purpose: medium openings with medium use
Typical Applications: Multi-family, Offices

* Tested @1.56 psf (all others air infiltration tested @6.24 psf)






** Thermal tested with Low E glass (all others thermal tested with clear glass)

*** Testing in progress

**** Tested per AAMA/WDMA/CSA101/I.S.2/A440-08

TRACO Blast™ Product Selection Guide


BLAST RESISTANT WINDOWS

	Description	Blast™ Product Series	Blast™ Model	Frame Depth	Thermal Frame	Insulating Glass	Configuration	Blast Pressure Rating (PSI)	Impulse Rating (PSI-mesc)	UFC 2002	UFC 2003	GSA Level C	GSA Level D	DoS Embassy	LM Impact
	Fixed / Project-Out	BLAST™ Plus	06B3510	3-1/4"	Yes	Yes	O/X	5.8	48.1	•	•	•			
	Fixed / Project-Out	BLAST™ Plus	06B3510	3-1/4"	Yes	Yes	O/X	5.7	47.6	•	•	•			•
	Fixed / Project-Out	BLAST™ Plus	06B3510	3-1/4"	Yes	Yes	O/X	12.1	82.2	•	•	•	•		•
	Fixed / Outswing	BLAST™ Plus	06B3012	3-1/4"	Yes	Yes	O/X	5.9	50.4	•	•	•			•
	Fixed	BLAST™ Plus	06B3800	3-1/4"	Yes	Yes	0	6.0	48.0	•	•	•			
	Fixed	BLAST™ Plus	06B3800	3-1/4"	Yes	Yes	0	6.0	47.3	•	•	•			•
	Fixed	BLAST™ Plus	12B3800	3-1/4"	Yes	Yes	0	11.8	84.4	•	•	•	•		•
	Fixed 1V1H Muntin	BLAST™ Ultra	42B7700	4-1/4"	Yes	Yes	1V1H	42.0	296.0						•
	Fixed 1V2H Muntin	BLAST™ Ultra	42B7700	4-1/4"	Yes	Yes	1V2H	42.0	296.0						•
	Fixed 5V7H Muntin	BLAST™ Ultra	42B7700	4-1/4"	Yes	Yes	5V7H	42.0	296.0						•
	Fixed 1V1H Muntin	BLAST™ Ultra	42B7750	4-1/4"	No	No	1V1H	42.0	296.0						•
	Fixed 1V2H Muntin	BLAST™ Ultra	42B7750	4-1/4"	No	No	1V2H	42.0	296.0						•
	Single Hung	BLAST™ Plus	06B9100	3-1/4"	Yes	Yes	O/X	5.9	47.9	•	•	•			•

Blast Product Series: BLAST™ DoD Level Performance - 1psi Static
 BLAST™ Plus GSA Level C and/or D Performance - 4 to 12psi Dynamic
 BLAST™ Max Custom Performance Needs - 12 to 40psi Dynamic
 BLAST™ Ultra DoS Level Performance - 40+psi Dynamic

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HURRCULES™ THERMAL IMPACT WINDOWS AND DOORS







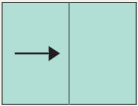

	Description	Model #	Design Pressure Rating PSF Pos+	Design Pressure Rating PSF Neg-	Water Test Pressure (PSF)	Missile Impact Tested LM/SM***	Frame Depth	Test Size	Config-uration	Test Standard	FBC
WINDOWS	Single Hung	I9100	110	110	12	LM/SM	3-1/4"	40" x 84"	O/X	ASTM	Yes
	Horizontal Sliding	I6800	100	100	10	LM/SM	3-1/4"	111" X 63"	OXO	ASTM	Yes
	Casement Outswing	I3100	100	100	15	LM/SM	3-1/4"	36" x 60"	X	ASTM	Yes
	Projected Window	I3500	100	100	15	LM/SM	3-1/4"	63" x 71-3/4"	X	ASTM	Yes
	Fixed	I3800	100	100	15	SM	3-1/4"	48" x 72"	0	ASTM	Yes
	Fixed	I3800	120	120	15	LM	3-1/4"	48" x 72"	0	ASTM	Yes
DOORS	Sliding Glass Door	I8300	90	90	15	LM	5"	192" x 96"	OXXO	ASTM	Yes
	Terrace Door Outswing	I8910	95	110	18	LM	3-1/4"	36" x 94"	X	ASTM	Yes
	Terrace Door Outswing	I8910	130	150	18	SM	3-1/4"	36" x 94"	X	ASTM	Yes

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Contact us for additional thermally efficient impact products which reflect recent code changes.

Biscayne Product Selection Guide *WINDOWS AND DOORS*

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BuyLine 1561

	Description	Model #	Design Pressure Rating PSF Pos+	Design Pressure Rating PSF Neg-	Water Test Pressure (PSF)	Missile Impact Tested LM/SM***	Frame Depth	Size	Configuration	Dade County NOA	FBC
Style WINDOWS	Single Hung	SH2100	38.54	38.54	6.75	NI	2 1/8"	53 1/8" x 74 1/4"	O/X	Approved	Yes
	Single Hung Side Load	SH240	62	62	12	LM	2 3/4"	53 1/4" x 74 1/4"	O/X	Approved	Yes
	 Single Hung Side Load	SH440	80	151.8	13	SM	2 3/4"	53 1/8" x 84"	O/X	Approved	Yes
	Single Hung Side Load Reinforced	SH440R	80	151.8*	13	SM	2 3/4"	53" x 84"	O/X	Approved	Yes
	 Single Hung Side Load	SH540	90*	106	13	LM	2 3/4"	54 1/4" x 84"	O/X	Approved	Yes
	Single Hung (TI)	SH940	70	70	10	LM	2 3/4"	48" x 72"	O/X	—	Yes
	Sliding Window	HS2100	33*	33*	6.0 or 8 w/ sill riser	NI	2 1/8"	53 1/8" x 50 5/8"	XO or OX	Approved	Yes
	Sliding Window	HS2100	20*	20*	6.0 or 8 w/ sill riser	NI	2 1/8"	109" x 63"	XOX or OXO	Approved	Yes
	Sliding Window	HS242	55	55	13.5 or 16 w/ sill riser	LM	2 3/4"	74" x 63"	XO	Approved	Yes
	Sliding Window Optional	HS242	70	70	13.5 or 16 w/ sill riser	LM	2 3/4"	111" x 63"	XOX	Approved	Yes
	Sliding Window	HS442	100	100	13.5 or 16 w/ sill riser	SM	2 3/4"	111" x 63"	XOX	Approved	Yes
	Sliding Window	HS542	100	90*	13.5 or 16 w/ sill riser	LM	2 3/4"	111" x 63"	XOX	Approved	Yes
	Sliding Window	HS942	50	50	10	LM	2 3/4"	72" x 60"	XO or OX	—	Yes
	Casement Outswing	C1200	80	80	20	LM/SM	2 1/2"	37" x 63"	X	Approved	Yes
	Fixed	PW2100	100.0	106.2	15	NI	2"	36" x 36"	0	Approved	Yes
	Fixed	PW1250	79.9*	79.9*	20	LM	2 1/2"	37" x 74"	0	Approved	Yes
	Fixed	PW245	90	90	30	LM	2 3/4"	60" x 60"	0	Approved	Yes
	Fixed	PW445	120.0	120.0	20	SM	2 3/4"	48" x 60"	0	Approved	Yes
	Fixed Optional 7/16" SP	PW545	180.0*	112.2	30	LM	2 3/4"	30" x 60"	0	Approved	Yes
	Fixed	PW945	70	70	10	LM	2 3/4"	52" x 72"	0	—	Yes
DOORS	Sliding Glass Door	248	60**	60**	10.5	LM	5 3/8"	143 7/8" x 96"	OX XO OXO	Approved	Yes
	 Sliding Glass Door	3000	41.7**	41.7**	9	NI	7 1/16"	227 3/4" x 96"	OXXO, OXO, XXX, OX, XO, XX	Approved	Yes
	Sliding Glass Door	SGD8000	72.7**	72.7**	18	SM	5"	168" x 119 1/4"	OXXO, OXO, OX, XO	Approved	Yes
	Sliding Glass Door	SGD8000	93**	93**	18	LM	5"	192" x 120"	OXXO, OXXO, OOX, OXO OX, XO	Approved	Yes
	Terrace Door Outswing	Doral 3	50*	48.5*	7.5	NI	4"	144 1/8" x 95 3/4"	XXO, OXO, XO, OX, XX	Approved	Yes
	Terrace Door Outswing	300	90	90	13.5	SM	4"	148" x 96"	OXXO, OXX, XXO OXO, XO, OX, XX	Approved	Yes
	Terrace Door Outswing	300	90	90	13.5	LM	4"	148" x 96"	OXXO, OXX, XXO, OXO, XO, OX, XX	Approved	Yes

* Indicates alternative performance available based on sizing and configuration.

** Indicates minimum performance. Alternative DP ratings available based on size and configuration.

*** LM = Large Missile; SM = Small Missile; NI = Non-Impact

Capabilities

DESIGN & ENGINEERING

TRACO's design and engineering capabilities are backed by a state-of-the-art computer assisted design and drafting (CADD) system, including 3-dimensional color plotting capability.



ENGINEERING



TESTING

TESTING

Independently supervised and certified in-house testing of TRACO windows and doors in a full -scale test chamber is assurance that the products have the highest performance characteristics.

LAMINATING

TRACO installed lamination equipment to satisfy the increasing demand for laminated windows, curtain wall, storefront, entrances and skylights. The additional requirements for added safety and security are particularly evident for educational facilities, government buildings and coastal buildings due to International Building Codes (IBC) changes and recent threats to national security. The equipment is the first of its kind installed in the United States. TRACO has been tempering its own glass in-house as part of a routine production line for more than 20 years.



GLASS INSULATING



ANODIZING

EXTRUDING

TRACO extrudes on three modern presses its entire requirements for the hundreds of aluminum extrusions necessary to offer a complete line of architectural windows and doors.



GLASS LAMINATING



EXTRUDING

APPLYING FINISHES

Anodize

The anodizing facility at TRACO utilizes the modern "two-step" process in which the color is deposited deep within the aluminum surface through electrodeposition, thereby reducing the expected color variation to a minimum.

Clear Anodize (meets AAMA 611)

Available in both Class II (.4 mils) and Class I (.7 mils) finishes.

Color Anodize (meets AAMA 611)

Available only in a Class I (.7 mils) finish, in traditional bronze anodized color choices.



GLASS TEMPERING



XYZ CUTTER

HIGH-PERFORMANCE PAINTING

Superior finishes, meeting AAMA 2605, high-performance finishes, meeting AAMA 2604 and standard finishes, meeting AAMA 2603, are applied at TRACO in the most modern five-stage pretreatment, four-booth electrostatic spray facility available.



ARCHITECTURAL PAINT COATINGS



TRACO®

The Windows And Doors That Greet The World

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