



Effortless hurricane protection for your home.

WinGuard® Aluminum Products

P&T WinGuard®

PGT® WinGuard® Impact-Resistant windows and doors are effortless, yet they meet the strictest codes in the nation. No wonder over 2 million units have been installed.



"We were hit bad with in excess of 130 mile-an-hour winds from Hurricane Ivan. But thanks to PGT, our two living levels remained high and dry, and there was no need to spend days wrestling with shutters or plywood. Thanks again for manufacturing such a wonderful, life-saving product."

Terry and Jim Taylor, homeowners, Navarre Beach, FL
Hurricane Ivan

"You can do all the laboratory tests you want, but does it work in the real world? The answer is, yes! My house is living testimonial to the fact that PGT WinGuard windows do work and that they're worry free."

Nelson Leidel, homeowner, Punta Gorda, FL
Hurricane Charley

"My WinGuard windows and doors withstood the eye of Category 4 Hurricane Charley. I was also impressed with the customer service provided by PGT after the storm."

Gustavo Herrera, homeowner, Port Charlotte, FL
Hurricane Charley

"Punta Gorda looked like a war zone but I had no worries because I knew that I had WinGuard."

Nelson Leidel, homeowner, Punta Gorda, FL
Hurricane Charley

"90% of Grand Cayman was destroyed, but our home held up very well and the best news is that NONE of the windows broke!"

George Crockett, homeowner, Grand Cayman Island
Hurricane Ivan

"All of the buildings in the resort had received a lot of damage but this building looked like it came through untouched. We attributed that to the new building codes that Florida has, along with the windows and roofing material that were used. We used PGT WinGuard windows and doors."

Art Schuller, Benchmark General Contractors, Inc., Ft. Myers, FL
Hurricane Charley





SAFEGUARD
YOUR HOME,
WITHOUT
LIFTING
A FINGER.

"After 25 years of boarding up my home during storm threats, I was thrilled to learn that a product like WinGuard existed in the industry. You can be sure that my next home will use WinGuard and that we will encourage and specify PGT in our custom and spec homes.

The WinGuard product immediately sets a beach house apart."

Mickey Hayes, President
Kitty Hawk Land Development
Kitty Hawk, NC

Your home. It's your refuge, your sanctuary, the place you and your family feel safest. It's the reason you need PGT® WinGuard® Impact-Resistant Windows and Doors.

WinGuard products meet Florida's most stringent code requirements for hurricane-force winds and flying debris, to ensure that even after impact, the glass remains in the frame. But WinGuard does so much more for your home, your family and your belongings. Providing year-round added security against thieves and intruders. Dramatically reducing outdoor noise. Filtering out 99% of the UV light that enters your home causing fading. And our laminated insulating glass improves energy efficiency, which significantly reduces cooling and heating costs. It's continuous, overall protection – without having to think twice.

ENGINEERED
TO MEET
HURRICANES
HEAD-ON.



French Style SGD780. Also available in Premium Frame
Colors: Arizona Beige, Pebble Khaki, Venetian Bronze,
Clear Anodize and **ETERNA® Finish**

When flying debris pierces regular windows or doors, internal air pressure can cause the roof to blow off, resulting in wind and water damage.



AUGUST 1992. MIAMI, FLORIDA. HURRICANE ANDREW. CATEGORY FIVE.

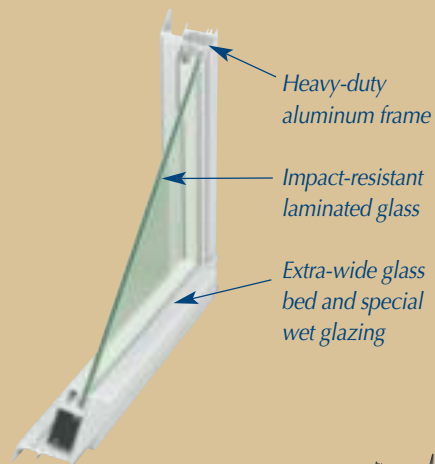
This catastrophic storm taught researchers that violent winds alone are not the major cause of window failure and the devastation that follows. More significant is the impact of flying objects. This discovery changed hurricane codes forever. Codes now focus on impact protection for windows and doors in addition to the ability to withstand high wind velocities. PGT® was the first to offer a complete line of residential aluminum impact-resistant windows and doors over ten years ago and helped develop the testing protocols still used today.

Our exclusive windows and doors combine heavy-duty frames with impact-resistant laminated glass to ensure nothing unwarranted invades your home in the event of a major storm. A special silicone glazing process is used to keep the glass from breaking



ALUMINUM FRAME

Impact-resistant glass is comprised of two panes of glass bonded together with a special interlayer of clear polyvinylbutyral. A combination of this glass and heavy-duty aluminum frames provides amazing protection from flying debris and high winds.



WinGuard with aluminum frames is also available with a laminated insulating glass option

Optional piece of insulating glass



away from its frame. Although wind-borne debris may crack the glass on impact, the interlayer keeps the overall window intact, preventing destructive winds from entering your home.

The WinGuard® product line was designed to the highest standards. WinGuard with aluminum frames meets Florida's most stringent code requirements for wind-borne debris protection. The products have Miami-Dade and Florida State Product Approvals and pass TAS 201, 202 and 203 for air, water, structural, and both small and large missile impact protection.

What does all this mean to you and your home? WinGuard can withstand blow after blow by a nine-pound, 2 x 4 beam traveling at 34 miles per hour, followed by hurricane-force winds and the glass will still remain in its frame.



Should the impact-resistant glass crack on contact, the durable interlayer keeps the window intact and in place.

MORE THAN JUST HURRICANE PROTECTION.

"We have a model home with WinGuard windows and doors that sits right on a busy highway. Everyone that enters the home is just amazed at how quiet they make the house. They go crazy over them!"

Our energy bills have also been below the other model homes that we have without WinGuard windows."

Doug Bradford,
Construction Manager
Kitty Hawk Land Company
Kitty Hawk, Inc.



Arthur Rutenberg Homes/
ARBC Corp.; Naples, FL

LIKE SUNSCREEN FOR YOUR HOME.

By filtering out 99% of UV rays, WinGuard® helps shield your furniture, carpet, artwork and drapes from the effects of fading caused by the sun. We also offer a variety of high-performance glass options, which feature tints and Low-E coatings that reduce solar heat gain, increase comfort and help you better manage energy costs. There are Energy Star® qualified window and door configurations available.



2003 WinGuard Home Showcase winner:
RJS Builders Inc.; Architectural Design Associates



PROTECTION BEYOND MOTHER NATURE.

Breaking a window is the most common means of entry for an intruder. But with WinGuard®, the same effortless protection that guards against hurricane damage also deters intruders. While normal windows shatter easily upon contact, the durability of WinGuard keeps glass in one piece. Whether it be a major storm or an attempted break in, WinGuard helps keep you, your family and your home safe 24 hours a day, 365 days a year.

SAFE AND SOUND.

The laminated glass in PGT® WinGuard® Impact-Resistant Windows and Doors absorbs sound rather than transmitting it, which helps to keep the world and its disruptions outside where they belong. In fact, the same type of glass is often used in airports and recording studios to significantly reduce ambient noise.



PROTECT
YOUR HOME
IN EVERY WAY.

"I wish I could have seen the point where they threw up their hands and said, 'The heck with this house. I'm never coming back,' " said Martha Thomas, who was arriving home when she and her husband discovered several windows and doors had been battered by would-be burglars using a propane gas tank, a concrete pillar and even a crow bar.

"I was mad and angry that somebody tried to break in, but when I realized they did not gain entry into my house, I was elated!"

Martha Thomas, homeowner
Palm Beach County, FL

French Door FD750 in
Dark Walnut **ETERNA®** Finish

THE EFFORTLESS
WAY TO
PROTECT YOUR
HOME – AND ITS
APPEARANCE.



THERE'S NO PLACE LIKE YOUR HOME.

WinGuard® does more than beautify your home; it protects without the hassle and expense of unsightly storm panels and hurricane shutters. It truly is the all-in-one solution for continuous, effortless protection from hurricanes, intruders, outside noise, and damaging sunlight. Even when you're away.

Be sure to ask your insurance provider if you qualify for discounts by making WinGuard® Impact-Resistant Windows and Doors your choice for hurricane protection.

THE BEST FROM AN INDUSTRY LEADER.

Offering impact-resistant products since 1996, PGT® has become a leading authority on hurricane protection. PGT® WinGuard® is the most popular impact-resistant window with over two million units installed. Each WinGuard window and door is custom-made in our manufacturing facility and glass plant, then delivered by our fleet of trucks. PGT's dedication to customer satisfaction is proven in our on-time delivery record, quality product line and unparalleled customer service.



Don't spend time, energy or money installing shutters every time a storm threatens your home.



Unattractive roll-down and accordion-style shutters offer no protection if you're not home to close them every time a storm threatens.



Think about how much valuable storage space is wasted with panel shutters or plywood sheets when they're not in use.



WOODGRAIN STYLES THAT PERFORM IN COASTAL MARKETS.

Most homeowners spend a considerable amount of effort and time involved in designing their home's exterior and interior. You can compliment those design selections with ETERNA® Finish. The visual beauty and warmth of wood is available in durable, low-maintenance aluminum frames. The finish is an authentic reproduction of four popular woodgrains: dark oak, acacia, cherry and dark walnut.

Even in the harshest coastal environments where conditions are unwelcoming to wood frames, ETERNA Finish can perform. Using a marine grade polyurethane powder coating, the finish is tougher and more durable than standard powder coatings that use polyester. The woodgrain pattern is absorbed into the powdercoat through a process of intense heat and pressure. The result is a woodgrain that outperforms wood frame alternatives, providing you with the protection of WinGuard and beauty of wood.

ALUMINUM FRAMES

GENERAL SPECIFICATIONS

COMPLETE PRODUCT LINE

- Single Hung Windows
- Horizontal Roller Windows
- Casement/Projected Casement Windows
- Picture Windows/Fixed Lite Architectural Windows
- Sliding Glass Doors
- French Doors
- Mull Bars and Mull Clips*

*Engineered and code approved mulls are available to meet various design pressure requirements.

PERFORMANCE TESTING

- Tested to Miami-Dade and AAMA protocols
- Qualified as large and small missile
- Passes ASTM E987 for deglazing
- Passes ASTM E547/E331 for water resistance
- Passes ASTM E283 for air infiltration
- Operable windows pass AAMA 1302.5 and doors pass AAMA F842 for forced entry resistance
- NFRC certified
- Energy Star® qualified configurations

FRAMES

- Heavy-duty extruded aluminum
- Nominal wall thickness is .062 for all windows and doors
- Flange-type frame for masonry construction
- Integral fin frame for wood construction
- Integral fin available with single hung, horizontal roller, picture window, and fixed lite architecturals
- Molded nylon anti-friction sash guides
- Heavy-duty die-cast sash locks
- Corrosion-resistant hardware and fasteners with stainless steel options

GLAZING

- All products are exterior glazed
- All products are silicone glazed for greater strength and seal
- Windows and sliding glass doors have a structural extruded aluminum glazing bead for stronger resistance to wind load (Unique lite glazing allows upgrades to colonial at a later date)
- Laminated insulating glass is optional

WEATHERSTRIPPING

- Fully weatherstripped with fin seal polyester pile and/or vinyl bulb

SCREENS

- Window screens are fitted at time of assembly to ensure a complete unit
- 18 x 16 charcoal fiberglass mesh*
- 20 x 20 charcoal fiberglass mesh for added insect protection*

*Insect screens are not designed for the purpose of providing security and will not protect objects or persons from falling out of windows






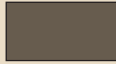


Custom-made WinGuard® Impact-Resistant Windows and Doors offer a wide variety of design options to enhance the style, beauty and comfort of your home. And our aluminum frames provide low-maintenance, long-lasting beauty.

FRAME COLORS
Custom Colors Available

¹ Powder Coat
Only available on SGD770
and SGD780

² **ETERNA® Finish**
Available on CA740,
PW/FL701, FD750,
SGD770, SGD780*
and Mulls

*Colors shown may vary from the actual application

Standard Colors	PREMIUM COLORS		
	Anodize	Powder Coat ¹	Eterna® Finish ²
 White	 Clear Anodize	 Arizona Beige	 Dark Walnut
 Bronze		 Pebble Khaki	 Cherry
		 Venetian Bronze	 Dark Oak
			 Acacia

WINDOW AND DOOR STYLES

- Single Hung Windows
- Horizontal Roller Windows
- Casement Windows
- Picture Windows/ Fixed Lite Architectural Windows
- Sliding Glass Doors
- Corner Meet Sliding Glass Doors
- French Doors

DESIGN OPTIONS



Muntin styles depicted are on a Single Hung Window. Muntins will vary depending on the window style and size.

Ogee Muntins
See individual product pages for type and configuration.

GLASS OPTIONS

- Impact-resistant laminated glass standard
- Laminated insulating glass optional

GLASS TINTS

- Clear
- Gray
- Green
- Bronze
- Obscure (Textured glass for enhanced privacy)
- Low-E (IG only)
- AZURLITE®
- SOLARCOOL®
- White Interlayer (Opaque interlayer for enhanced privacy)

**DISTINCTIVE
STYLING FOR
YOUR HOME.**

“During the past year it was such a relief to know we didn’t have to worry about putting up shutters whenever there was a hurricane warning.”

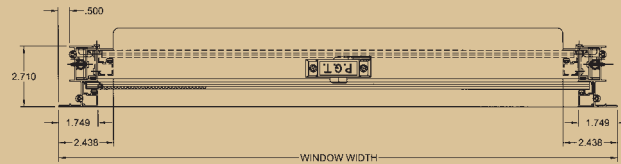
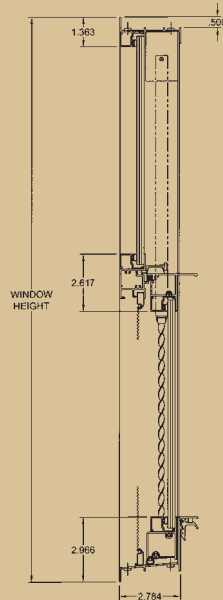
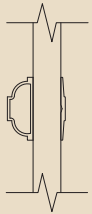
Phil and Ilene Barocas
Ft. Lauderdale, FL



ALUMINUM FRAMES

SINGLE HUNG – SERIES SH700

- Bottom sash locks available for egress and/or handicap requirements
- Spiral balances for easy lifting
- Pro-View (Oriel style) and Radius Top options available
- Integral Fin Frame
- Nominal sizes available for Integral Fin Frame
- Factory mull prepping available
- Raised and low ogee
























































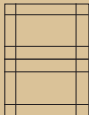



DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST	RATING
Single Hung, Flange	+/-80 psf	12 psf High Rise Sill 9.8 psf Low Rise Sill	53 $\frac{1}{8}$ " x 76"	Miami-Dade Protocols TAS 201, 202, 203	
Single Hung, Integral Fin	+/-80 psf	12 psf High Rise Sill 9.8 psf Low Rise Sill	52 $\frac{1}{8}$ " x 75"	ANSI/AAMA/NWWDA	H-R80 High Sill H-R60 Low Sill

SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

	COMMODITY				MODULAR				
FLANGE WINDOW WIDTH	19 ¹ / ₈	26 ¹ / ₂	37	53 ¹ / ₈	24	32	40	44	48
MASONRY OPENING*	19 ⁷ / ₈	27 ¹ / ₄	37 ³ / ₄	53 ⁷ / ₈	24 ³ / ₄	32 ³ / ₄	40 ³ / ₄	44 ³ / ₄	48 ³ / ₄
INTEGRAL FIN WINDOW WIDTH	18 ¹ / ₈	25 ¹ / ₂	36	52 ¹ / ₈	23	31	39	43	47
WOOD FRAME OPENING	18 ³ / ₈	25 ³ / ₄	36 ¹ / ₄	52 ³ / ₈	23 ¹ / ₄	31 ¹ / ₄	39 ¹ / ₄	43 ¹ / ₄	47 ¹ / ₄

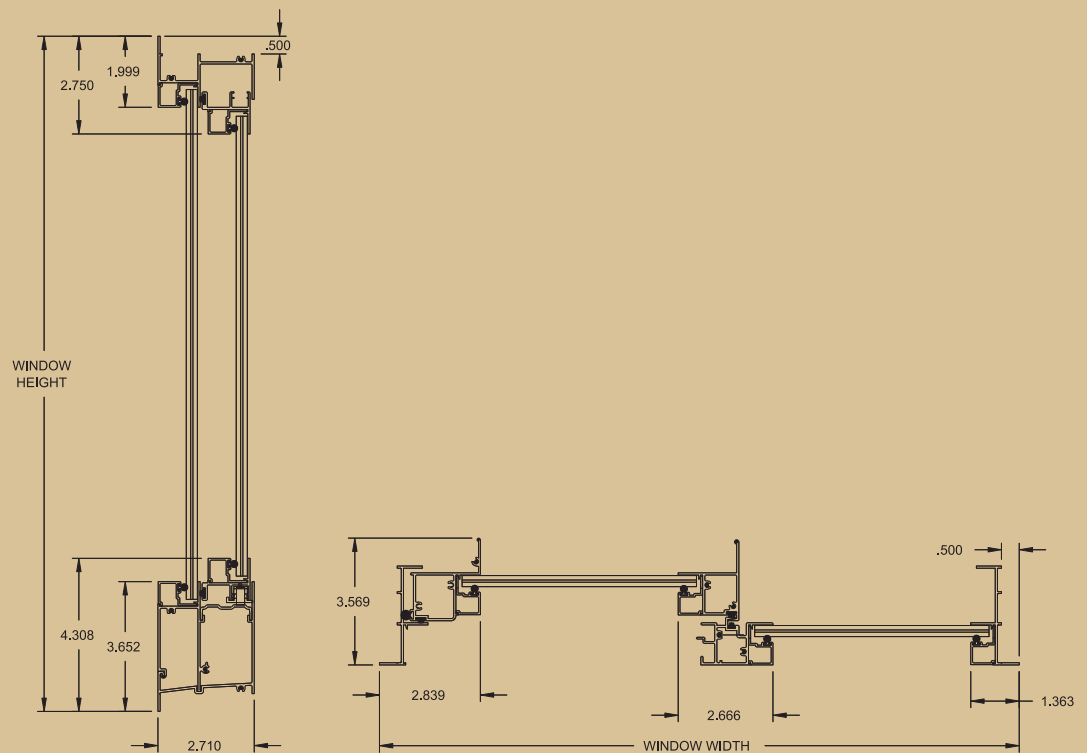
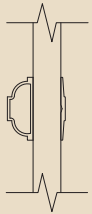
FLANGE WINDOW HEIGHT	MASONRY OPENING*	INTEGRAL FIN WINDOW HEIGHT	WOOD FRAME OPENING	PRO VIEW SASH HEIGHT*														
26	26	25	25 ¹ / ₄	N/A	 12	 H32	 22	 32	 2022	 2822	 3422	 3822	 4022					
38 ³ / ₈	38 ³ / ₈	37 ³ / ₈	37 ⁵ / ₈	15 ³ / ₃₂	 13	 H33	 23	 33	 2033	 2833	 3433	 3833	 4033					
50 ⁵ / ₈	50 ⁵ / ₈	49 ⁵ / ₈	49 ⁷ / ₈	20 ⁷ / ₈	 14	 H34	 24	 34	 2043	 2843	 3443	 3843	 4043					
59 ¹ / ₂	59 ¹ / ₂	58 ¹ / ₂	58 ³ / ₄	24 ⁷ / ₁₆	 14EH	 H34EH	 24EH	 34EH	 2043EH	 2843EH	 3443EH	 3843EH	 4043EH					
63	63	62	62 ¹ / ₄	25 ¹³ / ₁₆	 15	 H35	 25	 35	 2053	 2853	 3453	 3853	 4053					
76	76	75	75 ¹ / ₄	31 ¹ / ₃₂	 16	 H36	 26	 36	 2064	 2864	 3464	 3864	 4064					
					 Brittany 6-lite (standard)		 Brittany 9-lite (custom)											
					 Egress opening is 5.7 square feet or greater													

*Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.

ALUMINUM FRAMES

HORIZONTAL ROLLER – SERIES HR710

















- Egress connector bar option for egress and/or handicap requirements
- Removable operating sash for easy cleaning
- Low friction brass tandem rollers in a nylon housing for smooth operation and durability
- Integral pulls on sash stiles for ease of opening
- Integral Fin Frame
- Nominal sizes available for Integral Fin Frame
- Raised and low ogee

































SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

XO or OX

COMMODITY

FLANGE WINDOW WIDTH		26½	37	53⅛	74		
MASONRY OPENING*		27¼	37¾	53⅞	74¾		
INTEGRAL FIN WINDOW WIDTH		25½	36	52⅛	73		
WOOD FRAME OPENING		25¾	36¼	52⅜	73¼		
26	26	25	25¼	 H32	 22	 32	 D22
38⅜	38⅜	37⅜	37⅝	 H33	 23	 33	 D23
50⅝	50⅝	49⅝	49⅞	 H34	 24	 34	 D24
63	63	62	62¼	 H35	 25	 35	 D25

MODULAR

FLANGE WINDOW WIDTH		24	36	48	54	60	66	72		
MASONRY OPENING*		24¾	36¾	48¾	54¾	60¾	66¾	72¾		
INTEGRAL FIN WINDOW WIDTH		23	35	47	53	59	65	71		
WOOD FRAME OPENING		23¼	35¼	47¼	53¼	59¼	65¼	71¼		
26	26	25	25¼	 2022	 3022	 4022	 4622	 5022	 5622	 6022
38⅜	38⅜	37⅜	37⅝	 2033	 3033	 4033	 4633	 5033	 5633	 6033
50⅝	50⅝	49⅝	49⅞	 2043	 3043	 4043	 4643	 5043	 5643	 6043
63	63	62	62¼	 2053	 3053	 4053	 4653	 5053	 5653	 6053
FLANGE WINDOW HEIGHT	MASONRY OPENING*	INTEGRAL FIN WINDOW HEIGHT	WOOD FRAME OPENING	<p>Egress availability</p> <p> Egress opening is 5.7 square feet or greater</p> <p> Egress opening is between 5.0 and 5.699 square feet</p>						



















*Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.

SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

XOX

COMMODITY

FLANGE WINDOW WIDTH	53 ¹ / ₈	74	106 ³ / ₈	111
MASONRY OPENING*	53 ⁷ / ₈	74 ³ / ₄	107 ¹ / ₈	111 ³ / ₄
INTEGRAL FIN WINDOW WIDTH	52 ¹ / ₈	73	105 ³ / ₈	110
WOOD FRAME OPENING	52 ³ / ₈	73 ¹ / ₄	105 ⁵ / ₈	110 ¹ / ₄

26	26	25	25 ¹ / ₄				
				32	D22	D32	T22
38 ³ / ₈	38 ³ / ₈	37 ³ / ₈	37 ⁵ / ₈				
				33	D23	D33	T23
50 ⁵ / ₈	50 ⁵ / ₈	49 ⁵ / ₈	49 ⁷ / ₈				
				34	D24	D34	T24
63	63	62	62 ¹ / ₄				
				35	D25	D35	T25
FLANGE WINDOW HEIGHT	MASONRY OPENING*	INTEGRAL FIN WINDOW HEIGHT	WOOD FRAME OPENING		Brittany (standard)		Brittany 9-lite (custom)

DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST
Horizontal Roller, Flange	+/-75 psf	11.3 psf	74" x 63"XO 111" x 63"XOX	Miami-Dade Protocols TAS 201, 202, 203
Horizontal Roller, Integral Fin	+/-75 psf	11.3 psf	73" x 62"XO 110" x 62"XOX	Miami-Dade Protocols TAS 201, 202, 203

























*Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.

SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

XOX

MODULAR

FLANGE WINDOW WIDTH	48	60	72	84	96	108
MASONRY OPENING*	48 ^{3/4}	60 ^{3/4}	72 ^{3/4}	84 ^{3/4}	96 ^{3/4}	108 ^{3/4}
INTEGRAL FIN WINDOW WIDTH	47	59	71	83	95	107
WOOD FRAME OPENING	47 ^{1/4}	59 ^{1/4}	71 ^{1/4}	83 ^{1/4}	95 ^{1/4}	107 ^{1/4}

26	26	25	25 ^{1/4}						
				4022	5022	6022	7022	8022	9022
38 ^{3/8}	38 ^{3/8}	37 ^{3/8}	37 ^{5/8}						
				4033	5033	6033	7033	8033	9033
50 ^{5/8}	50 ^{5/8}	49 ^{5/8}	49 ^{7/8}						
				4044	5044	6044	7044	8044	9044
63	63	62	62 ^{1/4}						
				4053	5053	6053	7053	8053	9053
FLANGE WINDOW HEIGHT	MASONRY OPENING*	INTEGRAL FIN WINDOW HEIGHT	WOOD FRAME OPENING						



Brittany (standard)



Brittany 9-lite (custom)

*Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.

Colonial lites for custom size "XOX" 1/4 1/2 1/4 units are determined by the following:

Window width	44.000" - 60.000"	= 1 lite across per X vent = 2 lites across in fixed
Window width	60.001" - 111.000"	= 2 lites across per X vent = 4 lites across in fixed
Window height	22.125" - 31.999"	= 2 lites down
Window height	32.000" - 42.999"	= 3 lites down
Window height	43.000" - 63.000"	= 4 lites down

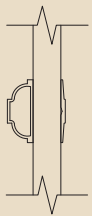
Colonial lites for custom size "XOX" 1/3 1/3 1/3 units are determined by the following:

Window width	45.125" - 48.233"	= 1 lite across per vent/ fixed
Window width	48.234" - 85.125"	= 2 lites across per vent/ fixed
Window height	22.125" - 31.999"	= 2 lites down
Window height	32.000" - 42.999"	= 3 lites down
Window height	43.000" - 63.000"	= 4 lites down

ALUMINUM FRAMES

CASEMENT – SERIES CA740

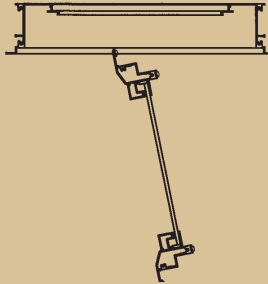
- Projected windows are available
- Modular design, featuring self-contained operating and fixed sections, allows multiple window configurations, including X, XX, O and XOX
- Contoured sash is inset within the main frame for less exposure to elements
- Washable hinges, heavy-duty egress or egress washable hinges available
- Aluminum snap-on cover hides fixed window installation fasteners
- Truth® Maxim Series operators and multi-point locking system
- Raised and low ogee



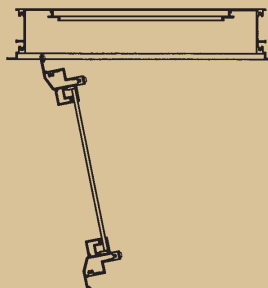
Product available with
**ETERNA®
Finish**

winguard.com

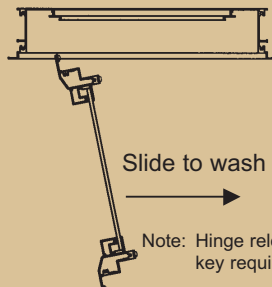
WASHABLE HINGE
UNITS UP TO 24"



EGRESS HINGE
UNITS OVER 24"



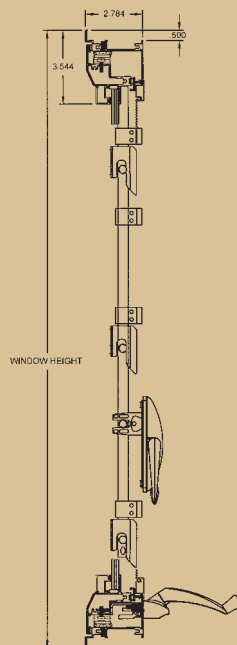
EGRESS WASHABLE HINGE
UPGRADE


































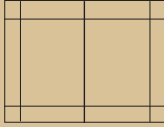
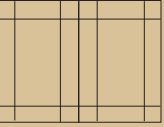
Slide to wash



Note: Hinge release key required



SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

COMMODITY			X			XX		
			FLANGE WINDOW WIDTH	MASONRY OPENING*	WOOD FRAME OPENING	FLANGE WINDOW WIDTH	MASONRY OPENING*	WOOD FRAME OPENING
26	26	25 1/4	 12	 H32	 22	 22	 32	 D22
38 3/8	38 3/8	37 5/8	 13	 H33	 23	 23	 33	 D23
50 5/8	50 5/8	49 7/8	 14	 H34	 24	 24	 34	 D24
63	63	62 1/4	 15	 H35	 25	 25	 35	 D25
76	76	75 1/4	 16	 H36	 26	 26	 36	 D36
FLANGE WINDOW HEIGHT	MASONRY OPENING*	WOOD FRAME OPENING						
				Brittany 9-lite (standard)		Brittany 6-lite (standard)		Brittany 9-lite (custom)




































**Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.*

SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

X

XX

MODULAR

			X							XX							
FLANGE WINDOW WIDTH			24	30	32	36	48	60	72								
MASONRY OPENING*			24 ^{3/4}	30 ^{3/4}	32 ^{3/4}	36 ^{3/4}	48 ^{3/4}	60 ^{3/4}	72 ^{3/4}								
WOOD FRAME OPENING			23 ^{1/4}	29 ^{1/4}	31 ^{1/4}	35 ^{1/4}	47 ^{1/4}	59 ^{1/4}	71 ^{1/4}								
FLANGE WINDOW HEIGHT	24	24	23 ^{1/4}														
				2020	2620	2820	3020	4020	5020	6020							
	36	36	35 ^{1/4}														
				2030	2630	2830	3030	4030	5030	6030							
	48	48	47 ^{1/4}														
			2040	2640	2840	3040	4040	5040	6040								
60	60	59 ^{1/4}															
			2050	2650	2850	3050	4050	5050	6050								
72	72	71 ^{1/4}															
			2060	2660	2860	3060	4060	5060	6060								

*Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.
















DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST
Casement	+70/-90 psf	11.5 psf	37" x 63" X 32" x 72" X 74" x 63" XX	Miami-Dade Protocols TAS 201, 202, 203
Casement	+/-55 psf	10.5 psf	37" x 76" X 74" x 76" XX	Miami-Dade Protocols TAS 201, 202, 203





















SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

XOX

COMMODITY

FLANGE WINDOW WIDTH			74	106 ³ / ₈	111
MASONRY OPENING*			74 ³ / ₄	107 ¹ / ₈	111 ³ / ₄
WOOD FRAME OPENING			73 ¹ / ₄	105 ³ / ₈	110 ¹ / ₄
26	26	25 ¹ / ₄	 D22	 D32	 T22
38 ³ / ₈	38 ³ / ₈	37 ⁵ / ₈	 D23	 D33	 T23
50 ⁵ / ₈	50 ⁵ / ₈	49 ⁷ / ₈	 D24	 D34	 T24
63	63	62 ¹ / ₄	 D25	 D35	 T25
76	76	75 ¹ / ₄	 D26	 D36	 T26

MODULAR

FLANGE WINDOW WIDTH			72	84	96	108
MASONRY OPENING *			72 ³ / ₄	84 ³ / ₄	96 ³ / ₄	108 ³ / ₄
WOOD FRAME OPENING			71 ¹ / ₄	83 ¹ / ₄	95 ¹ / ₄	107 ¹ / ₄
24	24	23 ¹ / ₄	 6020	 7020	 8020	 9020
36	36	35 ¹ / ₄	 6030	 7030	 8030	 9030
48	48	47 ¹ / ₄	 6040	 7040	 8040	 9040
60	60	59 ¹ / ₄	 6050	 7050	 8050	 9050
72	72	71 ¹ / ₄	 6060	 7060	 8060	 9060

FLANGE WINDOW HEIGHT

MASONRY OPENING*

WOOD FRAME OPENING

**Note: Openings calculated using 1/8" shim space (maximum 1/4" allowed), 1x bucks and pre-cast sills. If using poured sills add 3/4". Framing dimensions are calculated with drywall butted.*

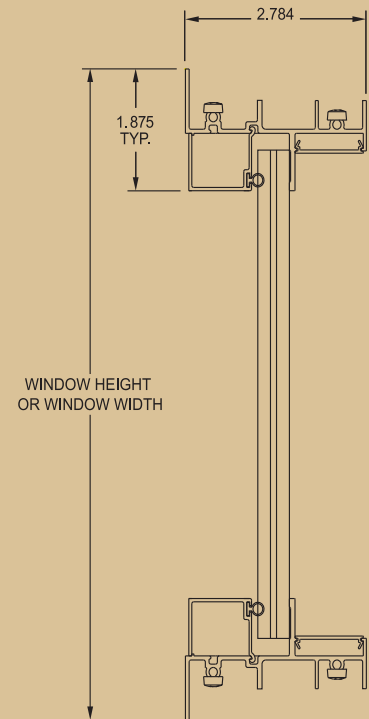
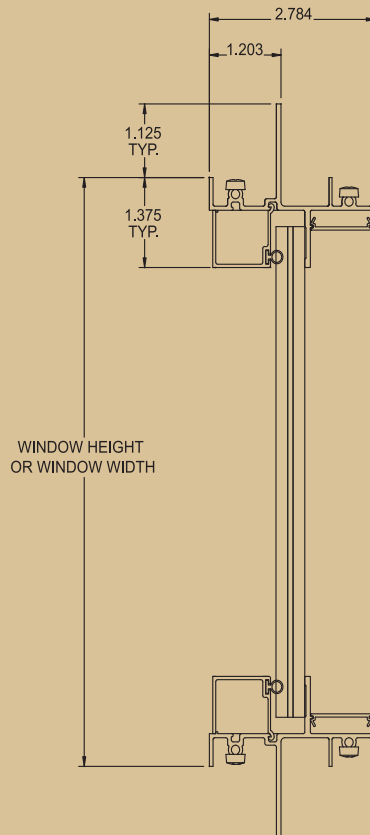
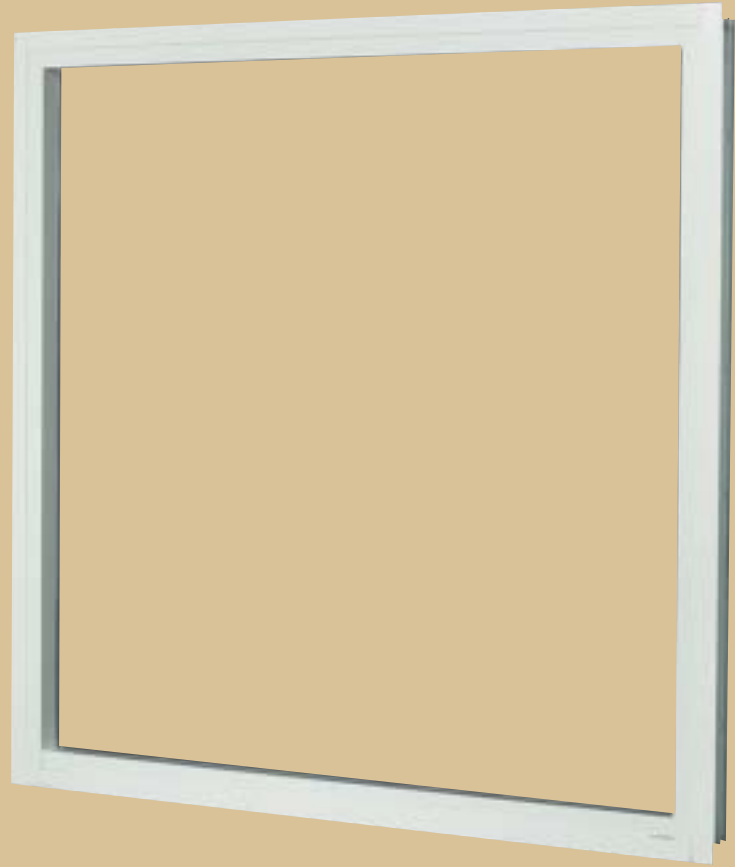
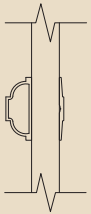
DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST
Casement	+70/-90 psf	11.5 psf	120" x 63" XOX	Miami-Dade Protocols TAS 201, 202, 203
Casement	+/-55 psf	10.5 psf	120" x 76" XOX	Miami-Dade Protocols TAS 201, 202, 203

ALUMINUM FRAMES

PICTURE/FIXED LITE ARCHITECTURAL – SERIES PW701/AR701

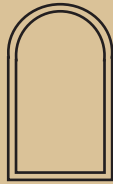
- Available with either flange or integral fin for easier installation
- Standard shapes include picture, arch, oval, full circle, half circle, fan, quarter circle, elliptical, eyebrow, hexagon, octagon, triangle, gothic, pentagon and trapezoid
- Inverted shapes created from templates or drawings and custom shapes are available
- Factory mulled prepping available
- Raised and low ogee



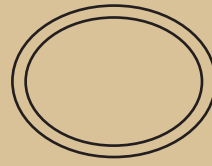
STANDARD SHAPES



ELLIPTICAL



ARCH



OVAL



PEAK PENTAGON



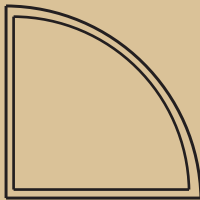
HALF CIRCLE



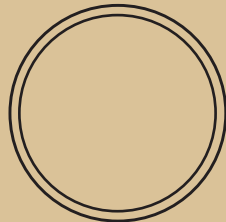
FAN



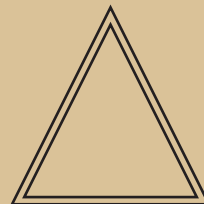
EYEBROW



QUARTER CIRCLE



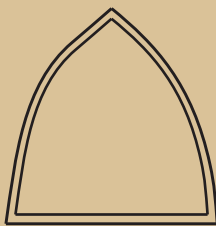
FULL CIRCLE



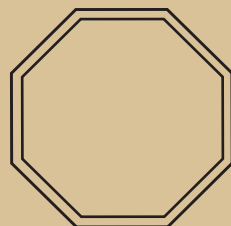
TRIANGLE



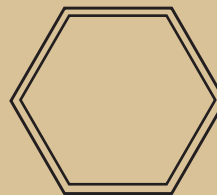
QUADRAFOIL



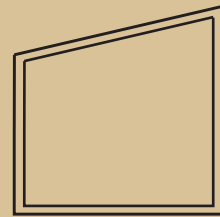
GOTHIC



OCTAGON



HEXAGON



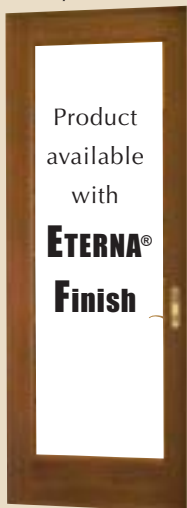
TRAPEZOID

DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST
Fixed Lite	+/-80 psf	20 psf	48" x 96"	Miami-Dade Protocols TAS 201, 202, 203

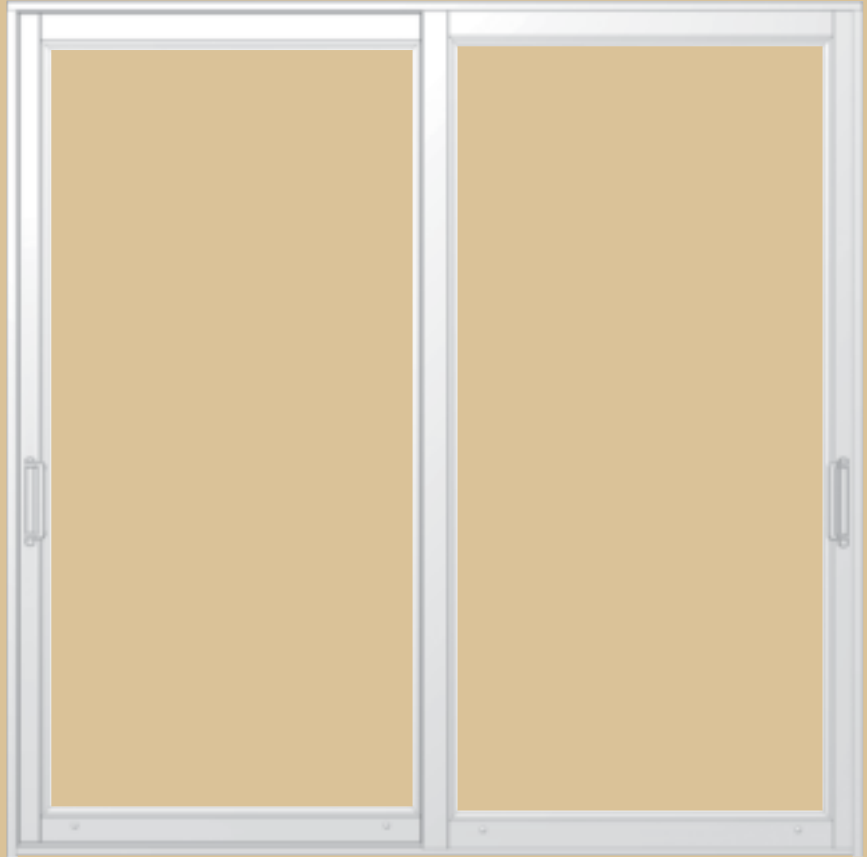
ALUMINUM FRAMES

- Premium Frame Colors available: Arizona Beige, Pebble Khaki, Venetian Bronze, Clear Anodize, and **ETERNA® Finish**
- Available with multi-panel, multi-track by-pass, pocket or corner configurations
- Panels up to 4' x 10' or 5' x 8'
- Optional laminated insulating glass available
- Designed for installation in masonry or wood-frame openings
- Interchangeable and reversible panel interlocks for easy reconfiguration
- Field changeable from standard stack to reverse stack
- Interior or exterior panel installation/removal
- Dual-point, mortise locking mechanism and choice of raised styled pull handles or recessed pulls
- Hidden installation and assembly screws

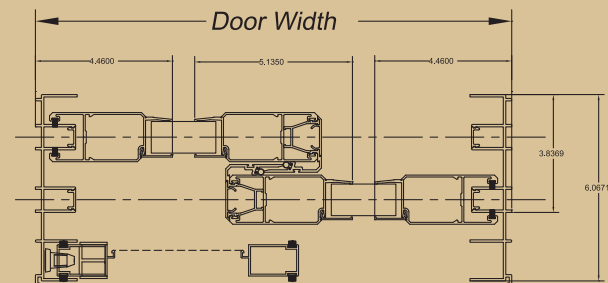
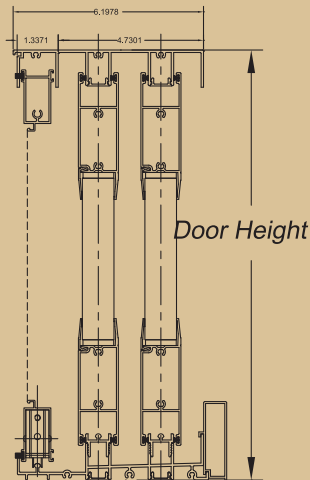
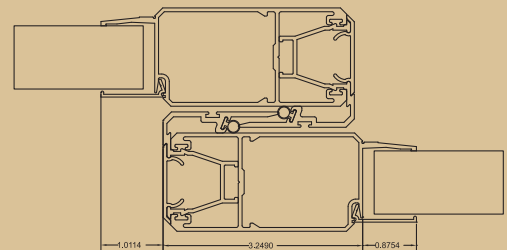


winguard.com

SLIDING GLASS DOORS – SERIES SGD770

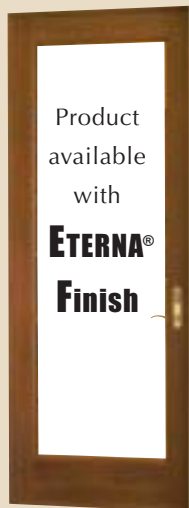


INTERLOCK DETAIL



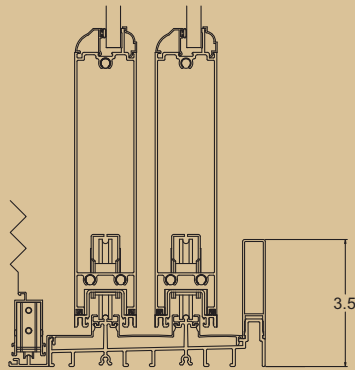
ALUMINUM FRAMES

- Premium Frame Colors available: Arizona Beige, Pebble Khaki, Venetian Bronze, Clear Anodize, and **ETERNA® Finish**
- Available with multi-panel, multi-track by-pass, pocket or corner configurations
- 4" top and bottom panel rails, 9" bottom panel rails optional
- Dual point locks with unique high style handle
- Panels up to 4' x 10' or 5' x 8'
- Laminated insulating glass up to 8'0"
- Double applied ogee muntins (ogee/ogee)
- Simulated divided lite (ogee/ogee w/internal muntin)
- Colonial insulating muntins
- Pocket configuration w/two-piece adjustable p-hook for easy installation

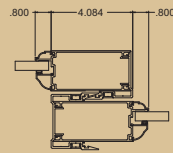


winguard.com

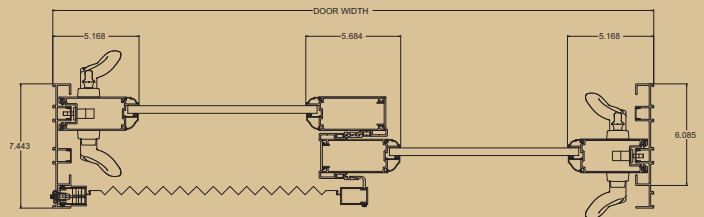
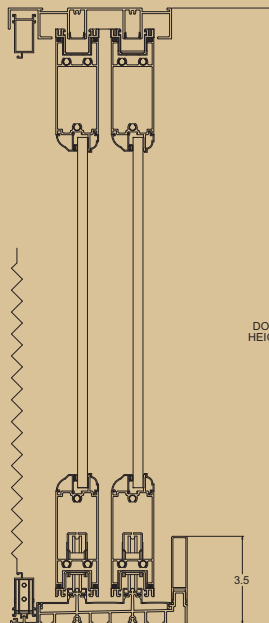
SLIDING GLASS DOORS – SERIES SGD780



W/ 9" RAILS (OPTIONAL)



INTERLOCK DETAIL



SLIDING GLASS DOORS – SERIES SGD770 & SGD780

CORNER MEET OPTION

- Maximum panel size 4' x 10' or 5' x 8'
- Available in standard and custom sizes
- Primary door always has the locking jamb at the corner
- By-pass and pocket styles
- Inside and outside corners
- Track quantity will be the same on both doors and is based on the door with the largest quantity of panels
- Maximum of 4 tracks overall per side
- Screens are not available
- Panels at corner always meet on outer most track on both the inside and outside corner configurations



Corner Meet SGD780

SLIDING GLASS DOORS – SERIES SGD770 & SGD780

SIZE CHART & STANDARD COLONIAL CONFIGURATIONS



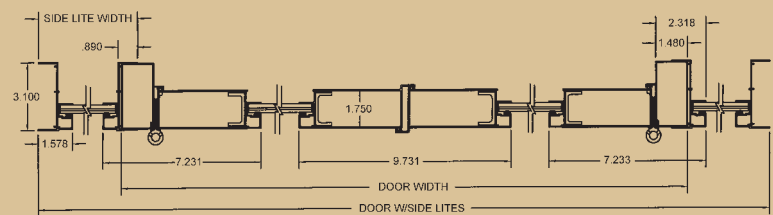
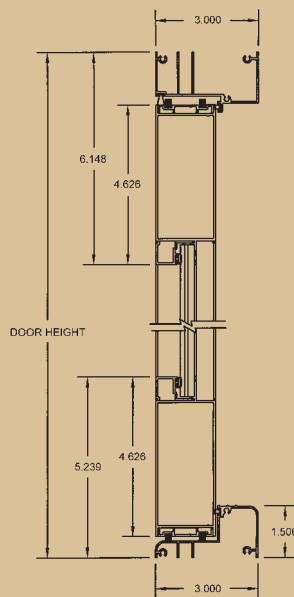
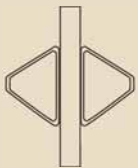
DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED PANEL SIZE	TYPE OF TEST
Sliding Glass Door SGD770	+/- 90 psf	Dependent on sill height	4' x 8'	Miami-Dade Protocols TAS 201, 202, 203
	+/- 90 psf		4' x 10'	
	+/- 90 psf		5' x 8'	
SGD780	+105/-115 psf	Dependent on sill height	4' x 8'	Miami-Dade Protocols TAS 201, 202, 203
	+105/-115 psf		4' x 10'	
	+105/-115 psf		5' x 8'	

ALUMINUM FRAMES






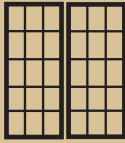






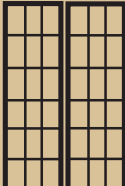


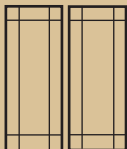
FRENCH DOORS – SERIES FD101

- Concealed 2-point locking system for added strength and protection
- Doors are pre-hung with 7" aluminum hinges for added strength and protection
- Tubular door jamb for extra strength
- Bumper threshold prevents water infiltration
- French doors have extruded aluminum glazing bead
- Sidelites are available
- Custom and standard sizes available
- Prepped for standard hardware (not included, available at local hardware and big box retailers/home supply stores.)
- Double raised muntins available



SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

	X			XX			
DOOR WIDTH	31 ¹ / ₂	33 ¹ / ₂	37 ¹ / ₂	47 ³ / ₄	59 ³ / ₄	63 ³ / ₄	71 ³ / ₄
MASONRY OPENING NO BUCK	31 ³ / ₄	33 ³ / ₄	37 ³ / ₄	48	60	64	72
MASONRY OPENING 1X BUCK	33 ¹ / ₄	35 ¹ / ₄	39 ¹ / ₄	49 ¹ / ₂	61 ¹ / ₂	65 ¹ / ₂	73 ¹ / ₂
MASONRY OPENING 2X BUCK	34 ³ / ₄	36 ³ / ₄	40 ³ / ₄	51	63	67	75

79 ³ / ₄	80	80 ³ / ₄	81 ¹ / ₂									
				2668	2868	3068	4068	5068	5468	6068		
95 ³ / ₄	96	96 ³ / ₄	97 ¹ / ₂									
				2680	2880	3080	4080	5080	5480	6080		
DOOR HEIGHT	MASONRY OPENING NO BUCK	MASONRY OPENING 1X BUCK	MASONRY OPENING 2X BUCK									
											Brittany (standard)	Brittany (standard)

Note: Masonry openings given assume a 1/8" shim space, maximum is 1/4".

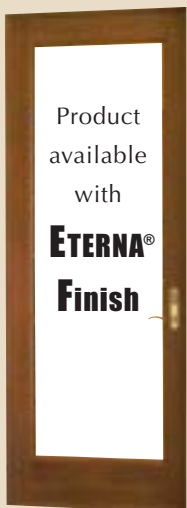
DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST
French Doors (X, XX)	+/-75 psf	11.25 psf	71 ³ / ₄ " x 95 ³ / ₄ "	Miami-Dade Protocols TAS 201, 202, 203

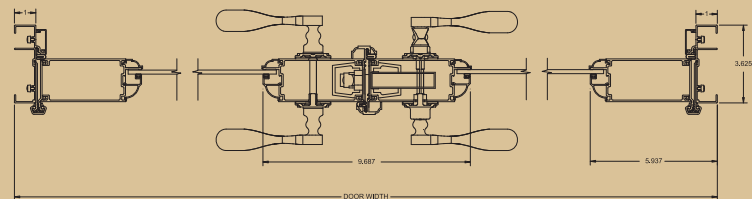
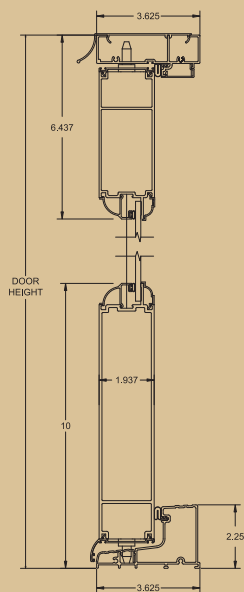
ALUMINUM FRAMES

FRENCH DOORS – SERIES FD750

- Traditional wood look with a nine inch bottom rail
- Multi-point stainless steel locking mechanism
- Prepped for European style hardware (not included, available from select or specialized hardware distributors). Optional PVD polished gold and PVD satin nickel trimsets are available (not included).
- Unique, continuous gear hinge
- Concealed installation screws
- Double ogee muntins available
- Two different sidelite styles to choose:
 - Full Jamb (shown) matches door profile
 - Narrow Jamb has slimmer sides providing a wider glass area
- Optional laminated insulating glass available
















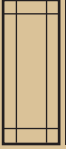


Product available with
ETERNA®
Finish



SIZE CHART & STANDARD COLONIAL CONFIGURATIONS

	X			XX			
DOOR WIDTH	31	33	37	47 ³ / ₄	59 ³ / ₄	63 ³ / ₄	71 ³ / ₄
MASONRY OPENING NO BUCK	31 ¹ / ₄	33 ¹ / ₄	37 ¹ / ₄	48	60	64	72
MASONRY OPENING 1X BUCK	32 ³ / ₄	34 ³ / ₄	38 ³ / ₄	49 ¹ / ₂	61 ¹ / ₂	65 ¹ / ₂	73 ¹ / ₂
MASONRY OPENING 2X BUCK	34 ¹ / ₄	36 ¹ / ₄	40 ¹ / ₄	51	63	67	75

DOOR HEIGHT	MASONRY OPENING NO BUCK	MASONRY OPENING 1X BUCK	MASONRY OPENING 2X BUCK	X			XX			
79 ³ / ₄	80	80 ³ / ₄	81 ¹ / ₂							
				2668	2868	3068	4068	5068	5468	6068
95 ³ / ₄	96	96 ³ / ₄	97 ¹ / ₂							
				2680	2880	3080	4080	5080	5480	6080
										
							Brittany (standard)	Brittany (standard)		

*Note: Openings given assume a 1/8" shim space, maximum 1/4".

DESIGN PRESSURE GUIDE

STYLE	TESTED PRESSURE	WATER-TESTED PRESSURE	TESTED SIZE	TYPE OF TEST
French Doors (X, XX, OXXO)	+/-75 psf	11.25 psf	145 ³ / ₈ " x 95 ³ / ₄ " (OXXO)	Miami-Dade Protocols TAS 201, 202, 203



pgtindustries.com