



PGT®



WinGuard® and
EnergyVue®

VINYL IMPACT & NON-IMPACT TECHNICAL GUIDE

By MITER Brands™





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**Protecting
families through
some of life's
most demanding
situations**

General Specifications

PERFORMANCE

- Tested and certified to rigorous FPA, HVHZ, and AAMA Standards
WinGuard® Vinyl is qualified as large and small missile
- Florida Building Code approved
- Meets or exceeds international building code standards
- NFRC certified

ENERGY PERFORMANCE

- High performance Low-E glass and argon gas available
- Various glass tints
- 4SG Fusion Bonded Spacer virtually eliminates seal failure

CONTINUOUS PROTECTION

- WinGuard® Vinyl products:
 - Protect against high winds and wind-borne debris
 - Deter intruders
 - Filter out 99% of UV rays and protect against damage caused by UV rays
 - Reduce outside noise
 - Glass options that meet Sea Turtle Protection Ordinances
 - Durable low maintenance vinyl frames

FEATURES

- Unique sizing or complex configurations
- Design flexibility (materials, finishes, performance options)
- Precision fit for difficult openings

STYLES

- Single-Hung
- Double-Hung
- Horizontal Roller
- Casement
- Projected Awning
- Picture Window
- Architectural Shapes
- Sliding Glass Doors
- French Doors
- Mull Bars and Mull Clips

FRAMES

- Heavy-duty extruded vinyl
- Nominal 3-1/2" window frame depth
- 5/8" double walled flange frame type on all windows
- Integral Nail-Fin, J-Channel and Equal Leg frame types
- Door frame depths vary by configurations

*Some restrictions may apply. Refer to full PGT Windows and Doors warranty for complete details.

GLAZING

- WinGuard® Vinyl: Impact resistant laminated insulating glass
- EnergyVue® Vinyl: Insulating glass
- All products are exterior glazed
- All products are silicone glazed for greater strength and seal

FRAME COLORS

- Standard: White
- Option Solid: Beige
- Cap Stock: Bronze, Black
- Two-tone Cap Stock: Bronze Exterior / White Interior , Black Exterior / White Interior

GLASS OPTIONS

- Standard Tints: Bronze, Gray, Green
- Premium Tints: Solarcool® Bronze, Azure Blue, Graylite®II
- Low-E: EnergyShield™, EnergyShield Max™, SolarControl LowE2, Solarban 60 applied to Gray Tint
- Privacy Glass: Obscure Glass, White Interlayer available only on WinGuard® Vinyl
- Argon gas

COLONIAL GRIDS

- Colonial Insulating:
 - 9/16" Flat grids between the glass
 - 13/16" Flat grids between the glass
 - 1" Contour grids between the glass
 - 7/8" Ogee raised exterior and interior grid with 9/16" bronze shadow bar between glass

OPENING SIZES

Window Opening Size Formulas

Openings are calculated using 1/8" shim space (maximum 1/4" allowed)

MASONRY OPENING WITH 1X BUCKS AND PRECAST SILL	MASONRY OPENING WITH 1X BUCKS AND POURED SILL	WOOD FRAME OPENING WITH DRYWALL BUTTED
Actual Window Width + 1-3/4"	Actual Window Width + 1-3/4"	Actual Window Width + 1/4"
Actual Window Height + 1"	Actual Window Height + 1-3/4"	Actual Window Height + 1/4"

French Door and By-Pass Sliding Glass Door Finished Opening Size Formulas

Openings calculated using 1/8" shim space (maximum 1/4" allowed)

MASONRY OPENING WITH NO BUCKS	MASONRY OPENING WITH 1X BUCKS	MASONRY OPENING WITH 2X BUCKS
Door Width + 1/4"	Door Width + 1-3/4"	Door Width + 3-1/4"
Door Height + 1/8"	Door Height + 7/8"	Door Height + 1-5/8"

Note: PGT® reserves the right to change material design and/or construction without notice or liability.

Single-Hung

SH5500 & SH5400

FEATURES

- Nominal 3-1/2" frame depth
- 5/8" double wall front flange
- Removable tilt sash design
- Integrated aluminum interlock
- Beveled meeting rail
- Constant Force or spiral balance system
- SecureConnect sash corner technology
- ComfortLift™ sash handles
- Stainless steel assembly screws
- Roll-formed half screen with 1816 charcoal mesh

OPTIONS

- Commodity, Modular, Nominal and custom sizes
- Integral nail fin, J-Channel and Equal leg frame
- Integral sash lift rail
- Equal, Pro-view (Oriel), or Cottage sash styles
- Custom Sash
- Radius Top and Half Radius Top
- Arch Top and Half Arch Top
- Bottom sash locks
- Vent latches
- Window Opening Control Device (WOCD)
- BetterVue Screening
- Extruded screen frame

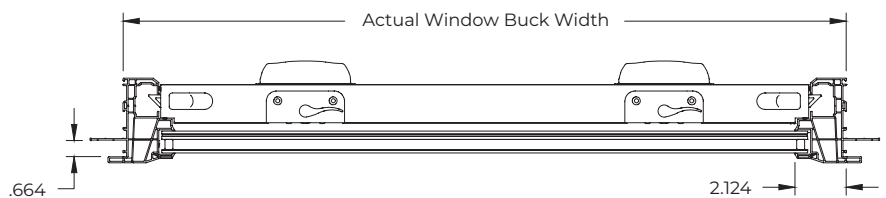
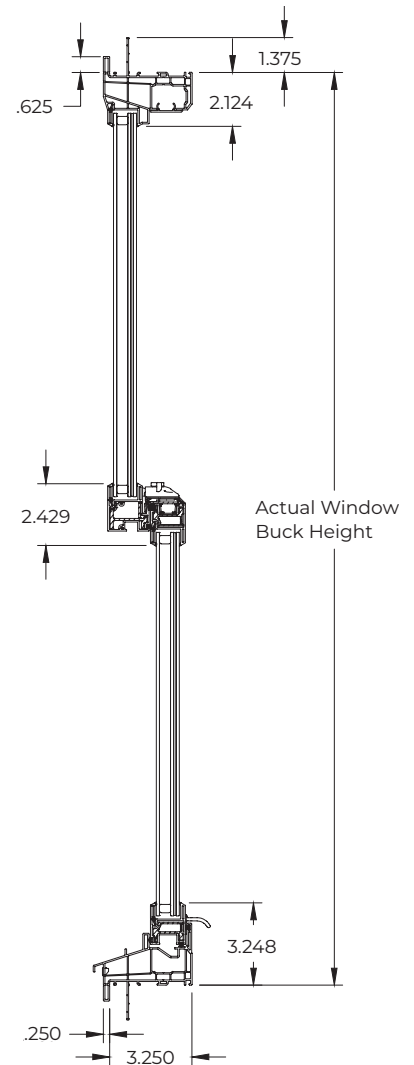
PERFORMANCE

WinGuard® Vinyl

- Sizes up to 54" x 91-3/4"
- Design Pressures up to +70/-110

EnergyVue® Vinyl

- Sizes up to 52-1/8" x 91-3/4"
- Design Pressures up to +65/-130



WinGuard® Vinyl glazing shown.

Single-Hung

SH5500 & SH5400

COMMODITY SIZES

HEIGHT	WIDTH				
	18-1/8"	25-1/2"	36"	52-1/8"	54"
25"	12	H32	22	32	T12
37-3/8"	13	H33	23	33	T13
49-5/8"	14	H34	24	34	T14
62"	15	H35	25	35	T15
75"	16	H36	26	36	T16
84"	17	H37	27	37	T17
91-3/4"	17H	H37H	27H	37H	T17H

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

MODULAR SIZES

HEIGHT	WIDTH				
	23"	31"	39"	43"	47"
25"	2022	2822	3422	3822	4022
37-3/8"	2033	2833	3433	3833	4033
49-5/8"	2043	2843	3443	3843	4043
62"	2053	2853	3453	3853	4053
75"	2064	2864	3464	3864	4064

NOMINAL SIZES

HEIGHT	WIDTH									
	19-1/2"	23-1/2"	27-1/2"	29-1/2"	31-1/2"	35-1/2"	39-1/2"	43-1/2"	47 1/2"	
35-1/2"	1830	2030	2430	2630	2830	3030	3430	3830	4030	
37-1/2"	1832	2032	2432	2632	2832	3032	3432	3832	4032	
43-1/2"	1838	2038	2438	2638	2838	3038	3438	3838	4038	
45-1/2"	18310	20310	24310	26310	28310	30310	34310	38310	40310	
47-1/2"	1840	2040	2440	2640	2840	3040	3440	3840	4040	
49-1/2"	1842	2042	2442	2642	2842	3042	3442	3842	4042	
51-1/2"	1844	2044	2444	2644	2844	3044	3444	3844	4044	
53-1/2"	1846	2046	2446	2646	2846	3046	3446	3846	4046	
59-1/2"	1850	2050	2450	2650	2850	3050	3450	3850	4050	
61-1/2"	1852	2052	2452	2652	2852	3052	3452	3852	4052	
65-1/2"	1856	2056	2456	2656	2856	3056	3456	3856	4056	
71-1/2"	1860	2060	2460	2660	2860	3060	3460	3860	4060	
73-1/2"	1862	2062	2462	2662	2862	3062	3462	3862	4062	

Note: Egress calculations are based on standard glass package, constant force balance, comfort lift handles, minimum reinforcement as required/certified for size, and no grids or other options that would change the outcome of egress. Calculate additional sizes and configurations using formula or Quoting System.

Single-Hung

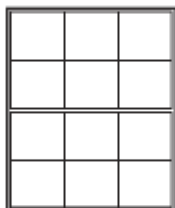
SH5500 & SH5400

EGRESS FORMULA

EQUAL SASH	ALL FRAME TYPES
Clear Opening Width	Actual window width - 4.250"
Clear Opening Height (Constant force balance)	(Actual window height * .500) - 4.591"
Clear Opening Height (Spiral balance)	(Actual window height * .500) - 8.341"
Special Egress Height (Spiral Balance)	(Actual window height * .500) - 6.841"

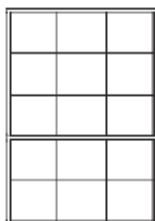
Egress Formulas are based on standard window features. Material or design changes may be made without notice or liability. In the event of discrepancies, only those egress opening sizes displayed in Quoting System will be honored.

EQUAL SASH STANDARD LITES FOR COLONIAL GRIDS



EQUAL SASH CONFIGURATION		
Window Width	Up to 30.9"	= 2 lites across (1V) per lite of glass
Window Width	31" - 41.9"	= 3 lites across (2V) per lite of glass
Window Width	42" - 54"	= 4 lites across (3V) per lite of glass
Window Height	Up to 30.9"	= 1 lite down (0H) per lite of glass
Window Height	31" - 75.9"	= 2 lites down (1H) per lite of glass
Window Height	76" - 84"	= 3 lites down (2H) per lite of glass

PROVIEW/ORIEL/CUSTOM SASH STANDARD LITES FOR COLONIAL GRIDS



PROVIEW SASH CONFIGURATION		
Window Width	Up to 30.9"	= 2 lites across (1V) per lite of glass
Window Width	31" - 41.9"	= 3 lites across (2V) per lite of glass
Window Width	42" - 54"	= 4 lites across (3V) per lite of glass
Window Height	Up to 30.9"	Vent = 1 lites down (0H) per lite of glass Fixed = 2 lites down (1H) per lite of glass
Window Height	31" - 75.9"	Vent = 2 lites down (1H) per lite of glass Fixed = 3 lites down (2H) per lite of glass
Window Height	76" - 84"	Vent = 3 lites down (2H) per lite of glass Fixed = 4 lites down (3H) per lite of glass

Note: Cottage grid configuration is the reverse of Proview.

Double-Hung

DH5560 & DH5460

FEATURES:

- Nominal 3-1/2" frame depth
- 5/8" double wall front flange
- Integrated aluminum interlock
- Removable tilt sash design
- Beveled meeting rail
- Constant Force or spiral balance system
- SecureConnect sash corner technology
- ComfortLift™ sash handles
- Stainless steel assembly screws
- Extruded full screen with 1816 charcoal mesh

OPTIONS:

- Commodity, Modular, Nominal and custom sizes
- Integral nail fin, J-Channel and Equal leg frame
- Integral sash lift rail
- Sash Continuous Pull Rail
- Equal, Pro-view (Oriel), or Cottage sash styles
- Custom Sash
- Bottom sash locks
- Vent latches
- Window Opening Control Device (WOCD)
- BetterVue Screening

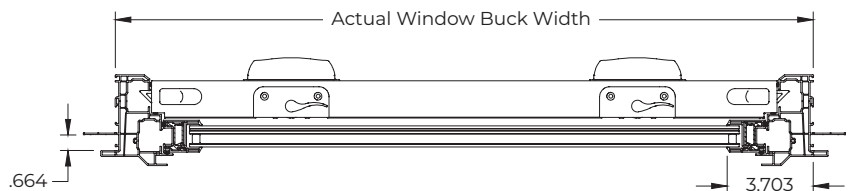
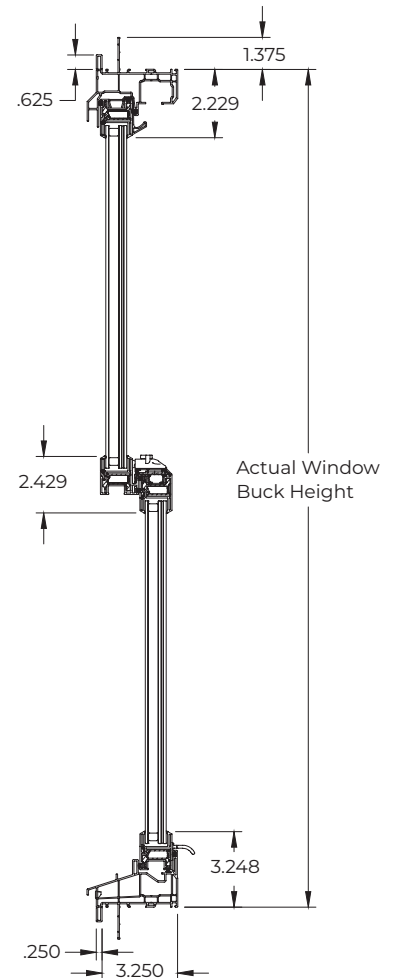
PERFORMANCE

WinGuard® Vinyl

- Sizes up to 54" x 84" or 52-1/8" x 86-3/8"
- Design Pressures up to +70/-110

EnergyVue® Vinyl

- Sizes up to 52-1/8" x 86-3/8"
- Design Pressures up to +65/-130



WinGuard® Vinyl glazing shown.

Double-Hung

DH5560 & DH5460

COMMODITY SIZES

HEIGHT	WIDTH				
	18-1/8"	25-1/2"	36"	52-1/8"	54"
25"	12	H32	22	32	T12
37-3/8"	13	H33	23	33	T13
49-5/8"	14	H34	24	34	T14
62"	15	H35	25	35	T15
75"	16	H36	26	36	T16
84"	17	H37	27	37	T17

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

MODULAR SIZES

HEIGHT	WIDTH				
	23"	31"	39"	43"	47"
25"	2022	2822	3422	3822	4022
37-3/8"	2033	2833	3433	3833	4033
49-5/8"	2043	2843	3443	3843	4043
62"	2053	2853	3453	3853	4053
75"	2064	2864	3464	3864	4064

NOMINAL SIZES

HEIGHT	WIDTH								
	19-1/2"	23-1/2"	27-1/2"	29-1/2"	31-1/2"	35-1/2"	39-1/2"	43-1/2"	47-1/2"
35-1/2"	1830	2030	2430	2630	2830	3030	3430	3830	4030
37-1/2"	1832	2032	2432	2632	2832	3032	3432	3832	4032
43-1/2"	1838	2038	2438	2638	2838	3038	3438	3838	4038
45-1/2"	18310	20310	24310	26310	28310	30310	34310	38310	40310
47-1/2"	1840	2040	2440	2640	2840	3040	3440	3840	4040
49-1/2"	1842	2042	2442	2642	2842	3042	3442	3842	4042
51-1/2"	1844	2044	2444	2644	2844	3044	3444	3844	4044
53-1/2"	1846	2046	2446	2646	2846	3046	3446	3846	4046
59-1/2"	1850	2050	2450	2650	2850	3050	3450	3850	4050
61-1/2"	1852	2052	2452	2652	2852	3052	3452	3852	4052
65-1/2"	1856	2056	2456	2656	2856	3056	3456	3856	4056
71-1/2"	1860	2060	2460	2660	2860	3060	3460	3860	4060
73-1/2"	1862	2062	2462	2662	2862	3062	3462	3862	4062

Note: Egress calculations are based on standard glass package, constant force balance, top sash continuous pull rail, bottom sash with comfort lift handles, minimum reinforcement as required/certified for size, and no grids or other options that would change the outcome of egress. Calculate additional sizes and configurations using formula or Quoting System.

Double-Hung

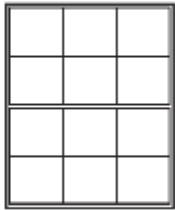
DH5560 & DH5460

EGRESS FORMULA

EQUAL SASH	ALL FRAME TYPES
Clear Opening Width	Actual window width - 4.250"
Clear Opening Height (Max DP50)	
Constant Force balance with Top Sash Continuous Pull Rail	(Actual window height * .500) - 4.970"
Clear Opening Height (Greater than DP50)	
Constant Force balance - 1 spring	(Actual window height * .500) - 7.970"
Constant Force balance - 2 spring	(Actual window height * .500) - 9.345"
Constant Force balance - 3 spring	(Actual window height * .500) - 10.970"
Spiral balance	(Actual window height * .500) - 7.970"
Spiral balance - special egress height	(Actual window height * .500) - 6.470"

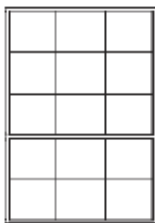
The number of springs are determined by sash weight; sash weight varies according to glass thickness, colonial and size. Egress Formulas are based on standard window features. Material or design changes may be made without notice or liability. In the event of discrepancies, only those egress opening sizes displayed in Quoting System will be honored.

EQUAL SASH STANDARD LITES FOR COLONIAL GRIDS



EQUAL SASH CONFIGURATION		
Window Width	Up to 30.9"	= 2 lites across (1V) per lite of glass
Window Width	31" - 41.9"	= 3 lites across (2V) per lite of glass
Window Width	42" - 54"	= 4 lites across (3V) per lite of glass
Window Height	Up to 30.9"	= 1 lite down (0H) per lite of glass
Window Height	31" - 75.9"	= 2 lites down (1H) per lite of glass
Window Height	76" - 84"	= 3 lites down (2H) per lite of glass

PROVIEW/ORIEL/CUSTOM SASH STANDARD LITES FOR COLONIAL GRIDS



PROVIEW SASH CONFIGURATION		
Window Width	Up to 30.9"	= 2 lites across (1V) per lite of glass
Window Width	31" - 41.9"	= 3 lites across (2V) per lite of glass
Window Width	42" - 54"	= 4 lites across (3V) per lite of glass
Window Height	Up to 30.9"	Vent = 1 lites down (0H) per lite of glass Fixed = 2 lites down (1H) per lite of glass
Window Height	31" - 75.9"	Vent = 2 lites down (1H) per lite of glass Fixed = 3 lites down (2H) per lite of glass
Window Height	76" - 84"	Vent = 3 lites down (2H) per lite of glass Fixed = 4 lites down (3H) per lite of glass

Note: Cottage grid configuration is the reverse of Proview.

Horizontal Roller

HR5510 & HR5410

FEATURES:

- Nominal 3-1/2" frame depth
- 5/8" double wall front flange
- Integrated aluminum interlock
- Removable sash design
- Integral Sash Pull Rail
- Nylon ball bearing wheels
- SecureConnect™ sash corner technology
- Stainless steel assembly screws
- Roll-formed half screen with 1816 charcoal mesh

OPTIONS:

- Commodity, Modular, Nominal and custom sizes
- Integral nail fin, J-Channel and Equal leg frame
- 2-Lite (XO or OX) or 3-Lite (XOX 1/4-1/2-1/4 or 1/3-1/3-1/3 or custom sash) configuration
- Concealed egress lock
- Vent latches
- Window Opening Control Device (WOCD)
- BetterVue Screening
- Extruded screen frame

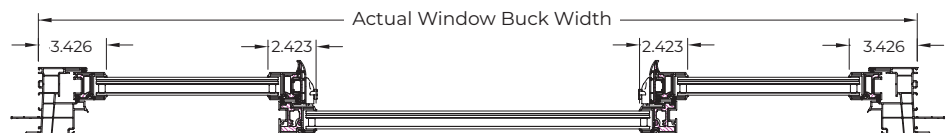
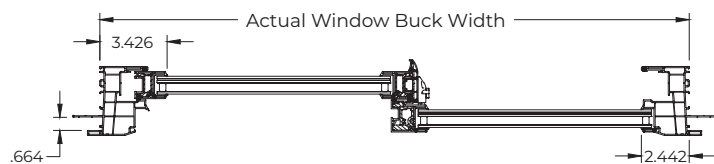
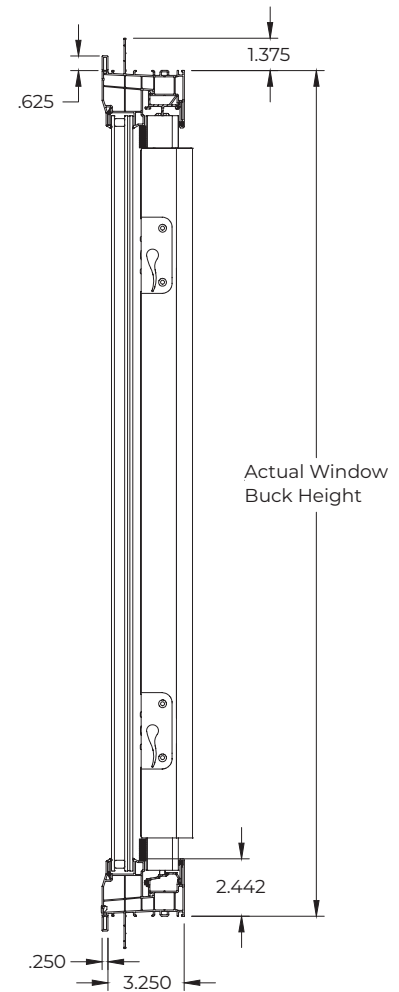
PERFORMANCE:

WinGuard® Vinyl

- 2-Lite configurations up to 75" x 76"
- 3-Lite configurations up to 140" x 63"
- Design Pressures up to +65/-110

EnergyVue® Vinyl

- 2-Lite configurations up to 75" x 72"
- 3-Lite configurations up to 140" x 63"
- Design Pressures up to +65/-130



WinGuard® Vinyl glazing shown.

Horizontal Roller

HR5510 & HR5410

XO/OX COMMODITY SIZES XOX 1/4-1/2-1/4 COMMODITY SIZES

HEIGHT	WIDTH			HEIGHT	WIDTH			
	25-1/2"	36"	52-1/8"		52-1/8"	73"	105-3/8"	110"
25"	H32	22	32	25"	32	D22	D32	T22
37-3/8"	H33	23	33	37-3/8"	33	D23	D33	T23
49-5/8"	H34	24	34	49-5/8"	34	D24	D34	T24
62"	H35	25	35	62"	35	D25	D35	T25

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

XO/OX MODULAR SIZES

HEIGHT	WIDTH							
	35"	47"	53"	59"	65"	71"	73"	75"
25"	3022	4022	4622	5022	5622	6022	6222	6422
37-3/8"	3033	4033	4633	5033	5633	6033	6233	6433
49-5/8"	3043	4043	4643	5043	5643	6043	6243	6443
54"	3047	4047	4647	5047	5647	6047	6247	6447
63"	3054	4054	4654	5054	5654	6054	6254	6454
72"	3061	4061	4661	5061	5661	6061	6261	6461
76"	3065	4065	4665	5065	5665	6065	6265	6465

XOX 1/4-1/2-1/4 MODULAR SIZES

HEIGHT	WIDTH							
	47"	59"	71"	83"	92"	95"	107"	120"
25"	4022	5022	6022	7022	7922	8022	9022	10122
37-3/8"	4033	5033	6033	7033	7933	8033	9033	10133
49-5/8"	4043	5043	6043	7043	7943	8043	9043	10143
54"	4047	5047	6047	7047	7947	8047	9047	10147
63"	4054	5054	6054	7054	7954	8054	9054	10154

XO/OX NOMINAL SIZES

HEIGHT	WIDTH			
	35-1/2"	47-1/2"	59-1/2"	71-1/2"
23-1/2"	3020	4020	5020	6020
35-1/2"	3030	4030	5030	6030
47-1/2"	3040	4040	5040	6040
59-1/2"	3050	4050	5050	6050

XOX 1/4-1/2-1/4 NOMINAL SIZES

HEIGHT	WIDTH				
	71-1/2"	83-1/2"	95-1/2"	107-1/2"	110-1/2"
23-1/2"	6020	7020	8020	9020	9320
35-1/2"	6030	7030	8030	9030	9330
47-1/2"	6040	7040	8040	9040	9340
53-1/2"	6046	7046	8046	9046	9346

Note: Egress calculations are based on standard glass package, minimum reinforcement as required/certified for size, and no grids or other options that would change the outcome of egress. Calculate additional sizes and configurations using formula or Quoting System.

Horizontal Roller

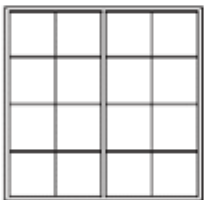
HR5510 & HR5410

EGRESS FORMULA

2-LITE XO.OX	FLANGE FRAME
Clear Opening Width	(Actual window width / 2) - 4.976"
Clear Opening Height	Actual window height - 4.937"
3-Lite XOX 1/4-1/2-1/4	Flange Frame
Clear Opening Width	(Actual window width / 4) - 1.688"
Clear Opening Height	Actual window height - 4.937"
3-Lite XOX 1/3-1/3-1/3	Flange Frame
Clear Opening Width	(Actual window width / 3) - 4.708"
Clear Opening Height	Actual window height - 4.937"

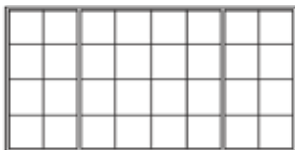
Egress Formulas are based on standard window features. Material or design changes may be made without notice or liability. In the event of discrepancies, only those egress opening sizes displayed in Quoting System will be honored.

EQUAL SASH STANDARD LITES FOR COLONIAL GRIDS



2-LITE CONFIGURATION		
Window Width	Up to 58.9"	= 1 lites across (0V) per lite of glass
Window Width	59" - 70.9"	= 2 lites across (1V) per lite of glass
Window Width	71" - 75"	= 3 lites across (2V) per lite of glass
Window Height	Up to 30.9"	= 2 lites down (1H) per lite of glass
Window Height	31" - 41.9"	= 3 lites down (2H) per lite of glass
Window Height	42" - 62.9"	= 4 lites down (3H) per lite of glass
Window Height	63" - 76"	= 5 lites down (4H) per lite of glass

PROVIEW/ORIEL/CUSTOM SASH STANDARD LITES FOR COLONIAL GRIDS



3-LITE CONFIGURATION UNEQUAL		
Window Width	Up to 73.9"	= Vents - 1 lite across (0V) per lite of glass
		= Fixed - 2 lites across (1V) per lite of glass
Window Width	74" - 140"	= Vents - 2 lites across (1V) per lite of glass
		= Fixed - 4 lites across (3V) per lite of glass
Window Height	Up to 30.9"	= 2 lites down (1H) per lite of glass
Window Height	31" - 41.9"	= 3 lites down (2H) per lite of glass
Window Height	42" - 63"	= 4 lites down (3H) per lite of glass

Casement

CA5540 & CA5440

FEATURES

- Nominal 3-1/2" frame depth
- 5/8" double wall front flange
- Hinge left or hinge right
- Standard or TrueHold™ hinge
- Operator with nesting handle
- Stainless steel assembly screws
- Extruded full screen with 1816 charcoal mesh

OPTIONS

- Commodity, Modular, Nominal and custom sizes
- Integral nail fin, J-Channel and Equal leg frame
- Stainless Steel hardware package
- Egress hinge
- Window Opening Control Device (WOCD)
- BetterVue Screening

PERFORMANCE

WinGuard® Vinyl

- Sizes up to 40" x 84"
- Design pressures up to +70/-110

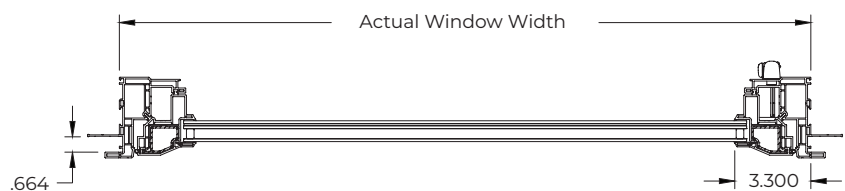
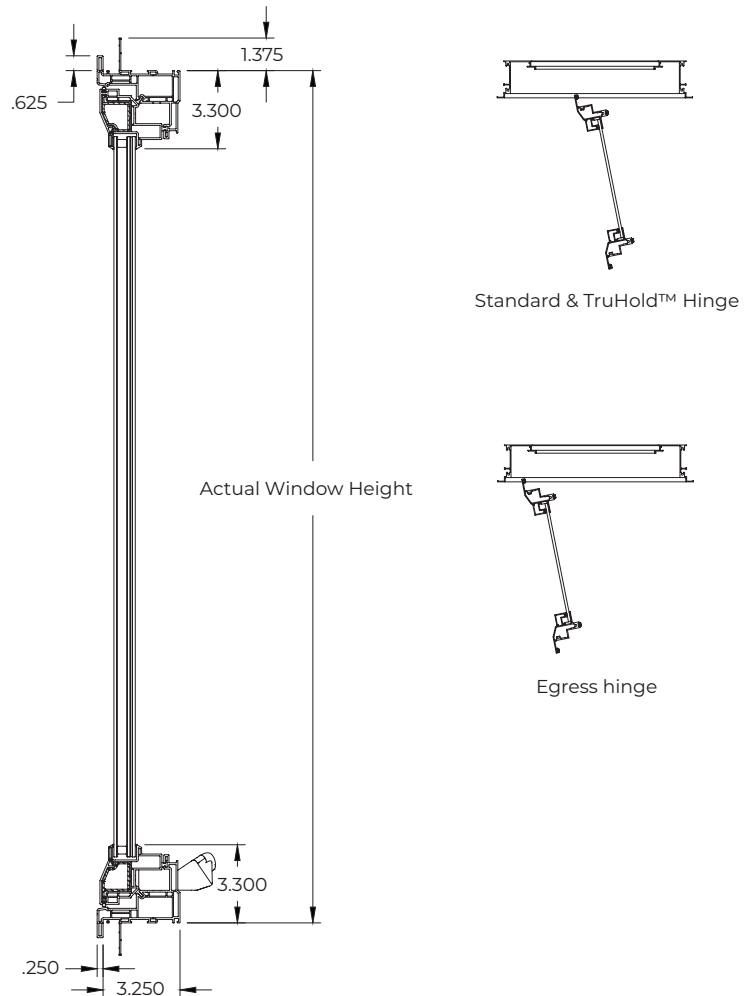
EnergyVue® Vinyl

- Sizes up to 40" x 84"
- Design pressures up to +65/-130

COMPANION PRODUCTS

AW5440/5540, PW5440/5540, AR5440/5540

- Modular design with matching Awning, Fixed Lite Picture Window and Architectural for multiple configurations including X, XX, XO, O



WinGuard® Vinyl glazing shown.

Casement

CA5540 & CA5440

COMMODITY SIZES

Washable Hinge	WIDTH		
HEIGHT	18-1/8"	25-1/2"	36"
25"	12	H32	22
37-3/8"	13	H33	23
49-5/8"	14	H34	24
62"	15	H35	25
75"	16	H36	26

COMMODITY SIZES

Egress Hinge	WIDTH		
HEIGHT	18-1/8"	25-1/2"	36"
25"	-	H32	22
37-3/8"	-	H33	23
49-5/8"	-	H34	24
62"	-	H35	25
75"	-	H36	26

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

MODULAR SIZES

Washable Hinge	WIDTH				
HEIGHT	23"	27"	31"	34"	40"
25"	2022	2422	2822	21122	3522
37-3/8"	2033	2433	2833	21133	3533
49-5/8"	2043	2443	2843	21143	3543
54"	2046	2446	2846	21146	3546
62"	2053	2453	2853	21153	3553
75"	2064	2464	2864	21164	3564

MODULAR SIZES

Egress Hinge	WIDTH				
HEIGHT	23"	27"	31"	34"	40"
25"	-	2422	2822	21122	3522
37-3/8"	-	2433	2833	21133	3533
49-5/8"	-	2443	2843	21143	3543
54"	-	2446	2846	21146	3546
62"	-	2453	2853	21153	3553
75"	-	2464	2864	21164	3564

NOMINAL SIZES

Washable Hinge	WIDTH				
HEIGHT	19-1/2"	23-1/2"	27-1/2"	29-1/2"	35-1/2"
23-1/2"	1820	2020	2420	2620	3020
31-1/2"	1828	2028	2428	2628	3028
35-1/2"	1830	2030	2430	2630	3030
39-1/2"	1834	2034	2434	2634	3034
47-1/2"	1840	2040	2440	2640	3040
59-1/2"	1850	2050	2450	2650	3050
71-1/2"	1860	2060	2460	2660	3060
73-1/2"	1862	2062	2462	2662	3062

NOMINAL SIZES

Egress Hinge	WIDTH				
HEIGHT	19-1/2"	23-1/2"	27-1/2"	29-1/2"	35-1/2"
23-1/2"	-	-	2420	2620	3020
31-1/2"	-	-	2428	2628	3028
35-1/2"	-	-	2430	2630	3030
39-1/2"	-	-	2434	2634	3034
47-1/2"	-	-	2440	2640	3040
59-1/2"	-	-	2450	2650	3050
71-1/2"	-	-	2460	2660	3060
73-1/2"	-	-	2462	2662	3062

Note: Egress calculations are based on standard glass package, minimum reinforcement as required/certified for size, and no grids or other options that would change the outcome of egress. Calculate additional sizes and configurations using formula or Quoting System.

Casement

CA5540 & CA5440

EGRESS FORMULA

	STANDARD WASHABLE HINGE	TRUEHOLD HINGE	EGRESS HINGE
CLEAR OPENING WIDTH	Actual window width - 11.813"	Actual window width - 12.187"	Actual window width - 7.500"
CLEAR OPENING HEIGHT	Actual window height - 5.75"	Actual window height - 5.75"	Actual window height - 5.75"

Egress Formulas are based on standard window features. Material or design changes may be made without notice or liability. In the event of discrepancies, only those egress opening sizes displayed in Quoting System will be honored.

STANDARD LITES FOR COLONIAL GRIDS



CASEMENT X CONFIGURATION		
Window Width	Up to 29.875"	= 2 lites across (1V) per lite of glass
Window Width	29.9" - 40"	= 3 lites across (2V) per lite of glass
Window Height	Up to 28.875"	= 2 lites down (1H) per lite of glass
Window Height	28.9" - 38.875"	= 3 lites down (2H) per lite of glass
Window Height	38.9" - 49.875"	= 4 lites down (3H) per lite of glass
Window Height	49.9" - 63.875"	= 5 lites down (4H) per lite of glass
Window Height	63.9" - 75.875"	= 6 lites down (5H) per lite of glass
Window Height	75.9" - 84"	= 7 lites down (6H) per lite of glass

Awning

AW5540 & AW5440

FEATURES

- Nominal 3-1/2" frame depth
- 5/8" double wall front flange
- Operator with nesting handle
- Stainless steel assembly screws
- Extruded full screen with 1816 charcoal mesh

OPTIONS

- Commodity, Modular, Nominal and custom sizes
- Integral nail fin, J-Channel and Equal leg frame
- Stainless Steel hardware package
- BetterVue Screening

PERFORMANCE

WinGuard® Vinyl

- Sizes up to 60" x 42" or 36" x 84"
- Design pressures up to +70/-110

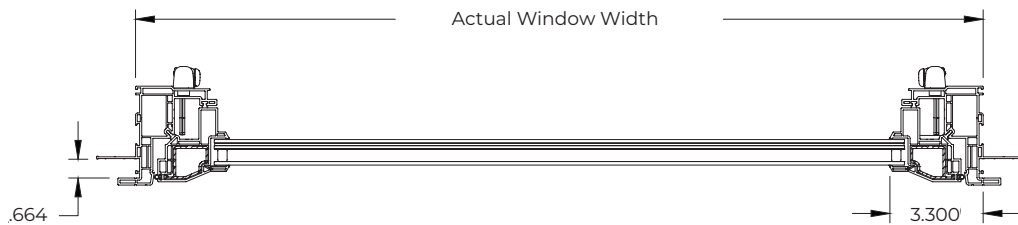
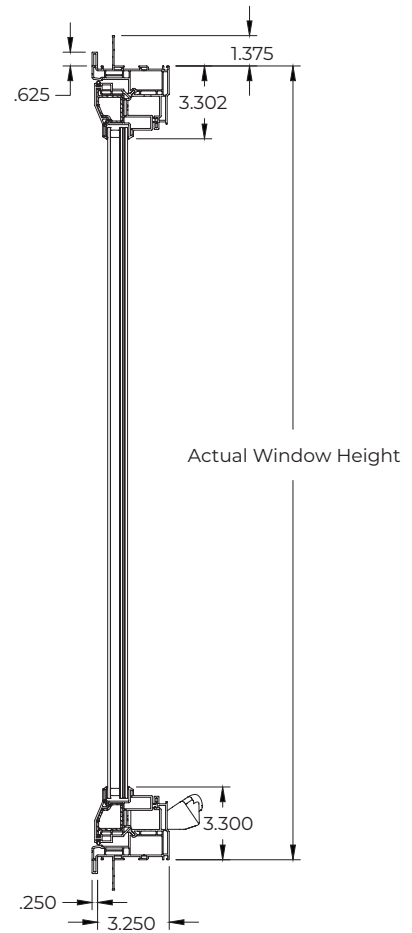
EnergyVue® Vinyl

- Sizes up to 60" x 42" or 30" x 84"
- Design pressures up to +65/-130

COMPANION PRODUCT

CA5440/5540, PW5440/5540, AR5440/5540

- Modular design with matching Casement, Fixed Lite Picture Window and Architectural for multiple configurations including X, XX, XOx, O



WinGuard® Vinyl glazing shown.

Awning

AW5540 & AW5440

COMMODITY SIZES

HEIGHT	WIDTH		
	25-1/2"	36"	52-1/8"
25"	H32	22	32
37-3/8"	H33	23	33
49-5/8"	H34	24	-
62"	H35	25	-
75"	H36	26	-
84"	H37	27	-

MODULAR SIZES

HEIGHT	WIDTH						
	23"	27"	30"	34"	40"	47"	60"
25"	2022	2422	2722	21122	3522	4022	5122
37-3/8"	2033	2433	2733	21133	3533	4033	5133
42"	2037	2437	2737	21137	3537	4037	5137
49-5/8"	2043	2443	2743	21143	3543	-	-
54"	2046	2446	2746	21146	3546	-	-
62"	2053	2453	2753	21153	3553	-	-
75"	2064	2464	2764	21164	3564	-	-
84"	2071	2471	2771	21171	-	-	-

NOMINAL SIZES

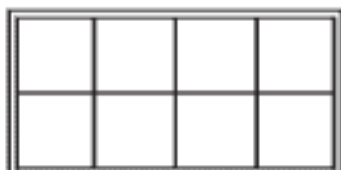
HEIGHT	WIDTH			
	23-1/2"	27-1/2"	29-1/2"	35-1/2"
23-1/2"	2020	2420	2620	3020
31-1/2"	2028	2428	2628	3028
35-1/2"	2030	2430	2630	3030
39-1/2"	2034	2434	2634	3034

Note: Awning windows do not meet egress.

Awning

AW5540 & AW5440

STANDARD LITES FOR COLONIAL GRIDS



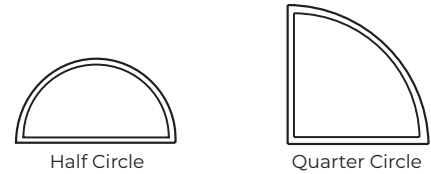
PROJECTED AWNING CONFIGURATION		
Window Width	Up to 24.9"	= 2 lites across (1V) per lite of glass
Window Width	25" - 39.9"	= 3 lites across (2V) per lite of glass
Window Width	40" - 60"	= 4 lites across (3V) per lite of glass
Window Height	Up to 28.875"	= 2 lites down (1H) per lite of glass
Window Height	28.9" - 38.875"	= 3 lites down (2H) per lite of glass
Window Height	38.9" - 48.875"	= 4 lites down (3H) per lite of glass
Window Height	48.9" - 63.875"	= 5 lites down (4H) per lite of glass
Window Height	63.9" - 84"	= 6 lites down (5H) per lite of glass

Fixed Lite Picture Window & Architectural

PW & AR5520/5420, PW & AR5540/5440 AW5540 & AW5440

FEATURES

- Nominal 3-1/2" frame depth
- 5/8" double wall front flange
- Standard style picture window
- Various architectural shapes



OPTIONS

- Custom sizes
- Integral nail fin, J-Channel and Equal leg frame



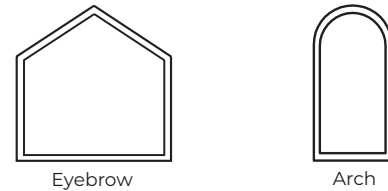
PERFORMANCE

WinGuard® Vinyl

- Sizes up to 42 sq. ft.
- Design Pressures up to +80/-110

EnergyVue® Vinyl

- Sizes up to 50 sq. ft.
- Design pressures up to +80/-98.2



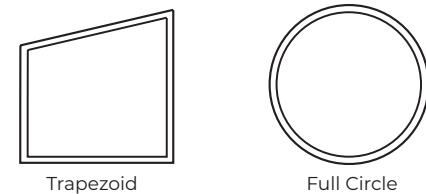
COMPANION PRODUCTS

CA5440/5540, AW5440/5540

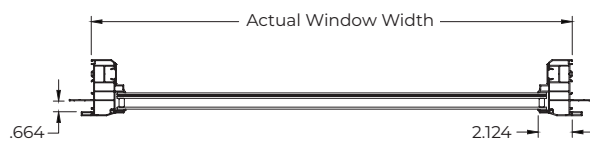
- PW & AR 5440/5540 features a modular design with matching Casement and Awning Window for multiple configurations including X, XX, XOx, O

SH5500, HR5510

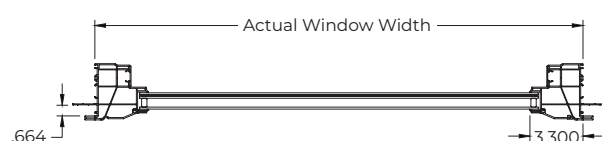
- PW & AR 5520/5520 features a modular design with matching Single Hung and Horizontal Roller Window for multiple configurations including X, XX, XOx, O



Note: Other shapes are available.



Standard Picture Window & Architectural (PW & AR5420/5520)



Casement Picture Window & Architectural (PW & AR5440/5540)

WinGuard® Vinyl glazing shown.

Preferred Sliding Glass Door

SGD5570 & SGD5470

FEATURES

- 2, 3 or 4 tracks
- Frame depth varies by configuration
- 3-1/2" clear anodized sill riser
- Multi-panel by-pass and pocket configurations
- Dual point mortise lock

OPTIONS:

- Nominal and Custom sizes
- Configurations up to 8 panels
- 1-1/2" add on nail fin
- 90° and 135° corner door configurations
- Inside or outside corner configurations
- Counter top unit (sliding glass window) (SGD5570 only)
- Traditional tandem stainless steel or nylon roller assembly (SGD5470)
- Traditional tandem steel or nylon roller assembly (SGD5570)
- Stainless steel package
- Various sill risers
- Raised, Curved or Contemporary handles
- Recessed pull with lock
- Secondary lock
- Standard or box screen
- BetterVue screen mesh

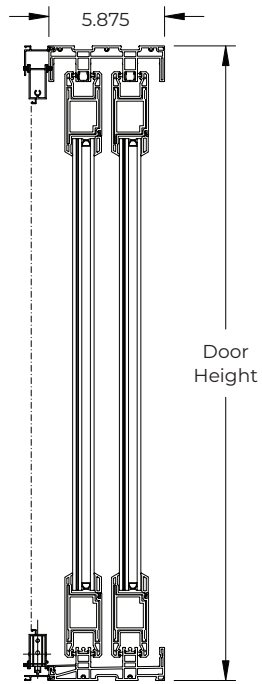
PERFORMANCE:

WinGuard® Vinyl

- Panel sizes up to 5'0" x 10'0"
- Design pressures up to +100/-100

EnergyVue® Vinyl

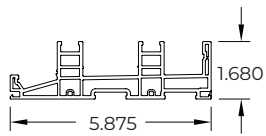
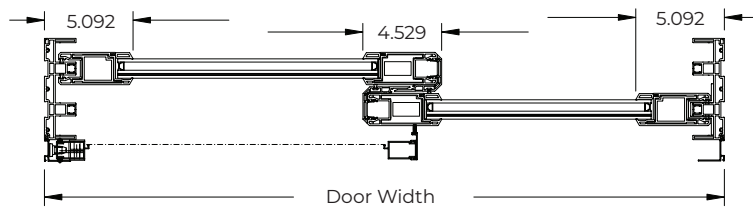
- Panel sizes up to 4'0" x 10'0" or 5'0" x 8'0"
- Design pressures up to +169.4/-169.4



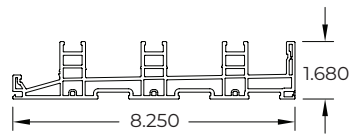
Sill Riser

SILL RISER HEIGHTS

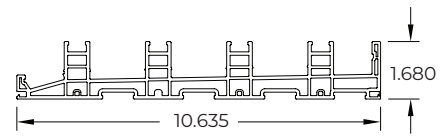
- 2-1/2"
- 3-1/2"
- 4-1/16"
- 4-5/8"



2-Track Frame Depth



3-Track Frame Depth



4-Track Frame Depth

WinGuard® Vinyl glazing shown.

Preferred View Sliding Glass Door

SGD5570NS & SGD5470NS

FEATURES

- 2, 3 or 4 tracks
- 3-1/2" clear anodized sill riser
- Multi-panel by-pass and pocket configurations
- Dual point mortise lock
- Stainless steel quad roller assembly

OPTIONS

- Nominal and Custom sizes
- Configurations up to 8 panels
- 90° corner door configurations with secondary lock
- Inside or outside corner configurations
- 1-1/2" add on nail fin
- Various sill risers
- Raised, Modern or Beveled handles
- Narrowed recessed pull with lock
- Secondary lock
- Standard or box screen
- BetterVue screen mesh

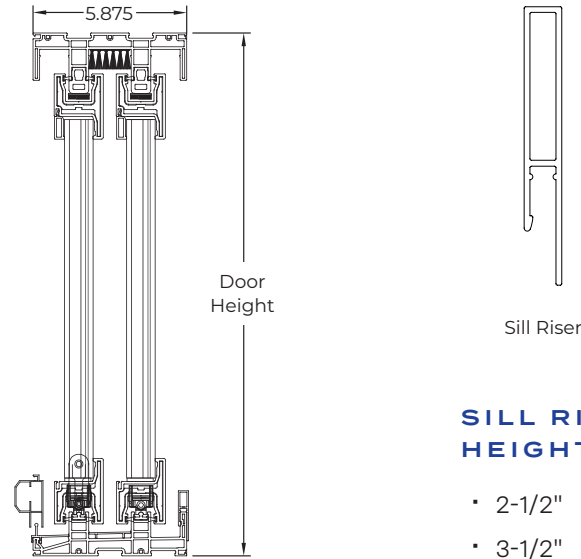
PERFORMANCE

WinGuard® Vinyl

- Panel sizes up to 5'0" x 10'0"
- Design pressures up to +60/-70

EnergyVue® Vinyl

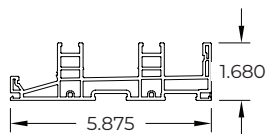
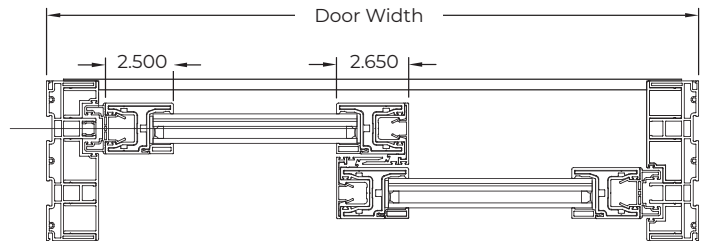
- Panel sizes up to 4'0" x 10'0" or 5'0" x 8'0"
- Design pressures up to +80/-85



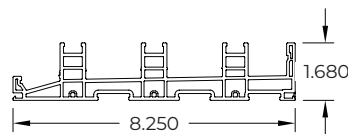
Sill Riser

SILL RISER HEIGHTS

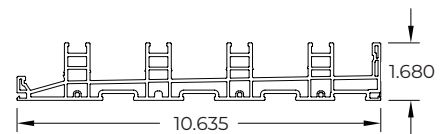
- 2-1/2"
- 3-1/2"
- 4-1/16"
- 4-5/8"



2-Track Frame Depth



3-Track Frame Depth



4-Track Frame Depth

WinGuard® Vinyl glazing shown.

Preferred and Preferred View Sliding Glass Door

SGD5570/5470 & SGD5570NS/5470NS

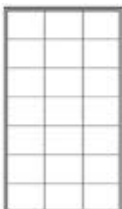
NOMINAL DOOR SIZES

BY-PASS CONFIGURATION	SIZE CODE	OVERALL SIZE WIDTH X HEIGHT*	POCKET CONFIGURATION	SIZE CODE	OVERALL SIZE WIDTH X HEIGHT*	
2P2T XO OX XX	4068	48" x 80"	1P2T 1 POCKET	3068	33-13/16" x 80"	
	5068	60" x 80"		4068	45-13/16" x 80"	
	6068	72" x 80"		5068	57-13/16" x 80"	
	8068	96" x 80"		5068	54-15/16" x 80"	
	10068	120" x 80"		6068	66-15/16" x 80"	
3P3T XXX XXO OXX	7668	87-3/16" x 80"	2P2T 1 POCKET	8068	90-15/16" x 80"	
	9068	105-3/16" x 80"		10068	114-15/16" x 80"	
	12068	141-3/16" x 80"		3P3T 1 POCKET	7668	82-1/8" x 80"
	15068	177-3/16" x 80"			9068	100-1/8" x 80"
4P2T OXXO XXXX	10068	119" x 80"	12068		136-1/8" x 80"	
	12068	143" x 80"	15068		172-1/8" x 80"	
	16068	191" x 80"	10068	109-5/16" x 80"		
	20068	239" x 80"	12068	133-5/16" x 80"		
4P4T XXXX OXXX XXXO	10068	114-3/8" x 80"	4P4T 1 POCKET	16068	181-5/16" x 80"	
	12068	138-3/8" x 80"		20068	229-5/16" x 80"	
	16068	186-3/8" x 80"		2P2T 2 POCKET	5068	54-1/2" x 80"
	20068	234-3/8" x 80"			6068	66-1/2" x 80"
3P2T OXO, XXO XOX, OXX	7668	91-13/16" x 80"	8068		90-1/2" x 80"	
	9068	109-13/16" x 80"	10068		114-1/2" x 80"	
	12068	145-13/16" x 80"	10068	108-15/16" x 80"		
	15068	181-13/16" x 80"	12068	132-15/16" x 80"		
5P3T XXX-XX, XX-XXX OX-XXO, OXX-XO	15068	176-3/16" x 80"	4P2T 2 POCKET	16068	180-15/16" x 80"	
	20068	236-3/16" x 80"		20068	228-15/16" x 80"	
	25068	296-3/16" x 80"		15068	163-5/16" x 80"	
6P3T OXX-XXO XXX-XXX	15068	173-3/8" x 80"	6P3T 2 POCKET	18068	199-5/16" x 80"	
	18068	209-3/8" x 80"		24068	271-5/16" x 80"	
	24068	281-3/8" x 80"		30068	343-5/16" x 80"	
	30068	353-3/8" x 80"		20068	217-5/8" x 80"	
8P4T OXXX-XXXX XXXX-XXXX	20068	227-11/16" x 80"	8P4T 2 POCKET	24068	265-5/8" x 80"	
	24068	275-11/16" x 80"		32068	361-5/8" x 80"	
	32068	371-11/16" x 80"		40068	457-5/8" x 80"	
	40068	467-11/16" x 80"				

* 6/8 heights shown

* 6/8 heights shown

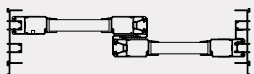
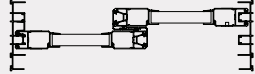
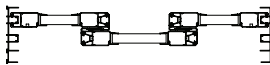
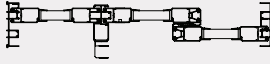
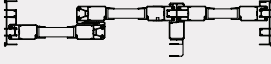
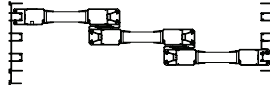
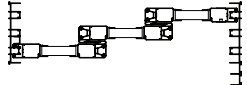
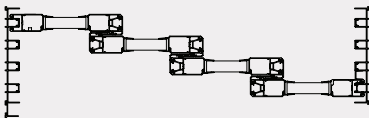
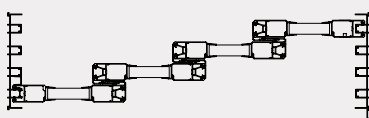
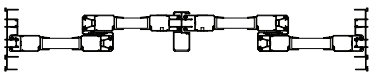
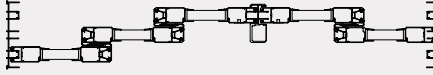
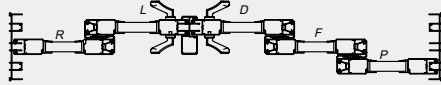
STANDARD LITES FOR COLONIAL GRIDS

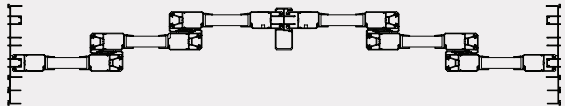
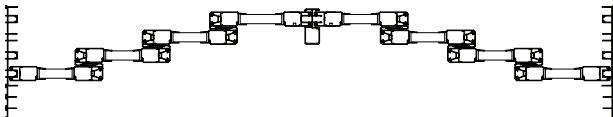


STANDARD LITES FOR COLONIAL GRIDS		
Nominal Panel Width	Up to 2'6"	=2 lites across (1V) per panel
Nominal Panel Width	3'0" & 4'0"	=3 lites across (2V) per panel
Nominal Panel Width	5'0"	=4 lites across (3V) per panel
Nominal Panel Height	Up to 6'8"	=5 lites down (4H) per panel
Nominal Panel Height	8'0"	=6 lites down (5H) per panel
Nominal Panel Height	9'0" & 10'0"	=7 lites down (6H) per panel

Preferred and Preferred View Sliding Glass Door

SGD5570/5470 & SGD5570NS/5470NS

TYPE	STANDARD STACK	REVERSE STACK
2P2T XX / XO / OX		
3P2T XOX		Same as Standard Stack
3P2T OXO		
3P3T XXX / XXO / OXX		
4P4T XXXX / XXXO / OXXX		
4P2T XXXX / OXXX		Same as Standard Stack
5P3T OXX-XO / OX-XXO XXX-XX / XX-XXX		

TYPE	STANDARD STACK
6P3T OXX-XXO XXX-XXX	
8P4T OXXX-XXXO XXXX-XXXX	

Preferred French Door

FD5555 & FD5455

FEATURES

- 4-9/16" Cellular vinyl frame depth
- Equal leg frame
- Single or double door
- Outswing
- 1-3/4" x 5" Cellular vinyl panel stile reinforced with aluminum
- 1-3/8" clear anodized threshold with cover
- Multi-point euro groove locking system
- Handle to deadbolt bore 3-5/8" on center
- Brushed stainless steel hinges

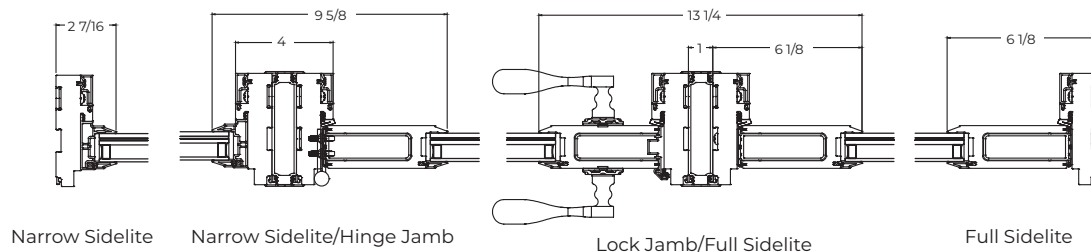
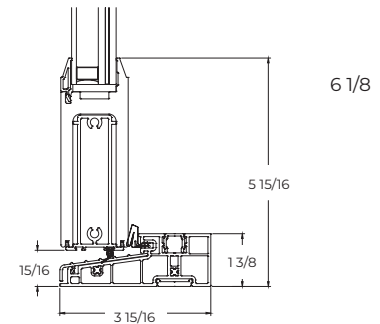
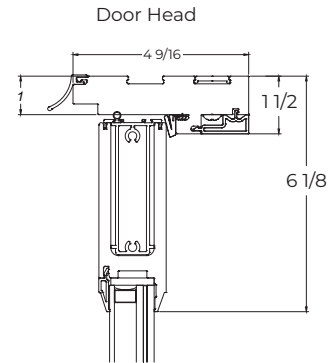
OPTIONS

- Nominal and Custom sizes
- Oil-rubbed bronze hinges
- Four frame styles for sidelite and transom options (refer to next page)
- Series 800 Lever, Series 100 Lever, Contemporary Handle

PERFORMANCE

WinGuard® Vinyl and EnergyVue®

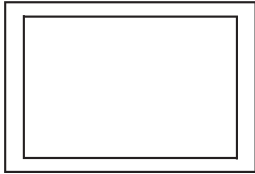
- Single door sizes up to 38-13/16" x 96"
- Double door sizes up to 76" x 96"
- Sidelite sizes up to 40" x 111" or 111" x 40"
- Transom sizes up to 111" x 40"
- Design pressures up to +70/-70



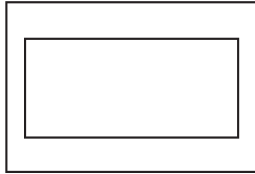
WinGuard® Vinyl glazing shown.

Preferred French Door

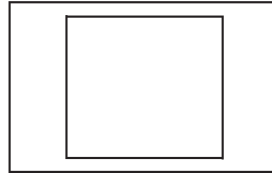
FD5555 & FD5455



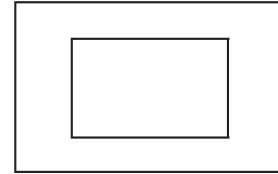
Narrow Frame



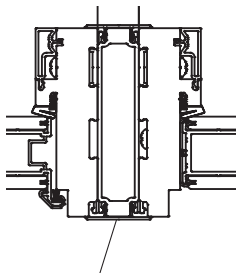
Full Head/Sill
Narrow Jamb(s)



Full Jamb
(Narrow Head/Sill)

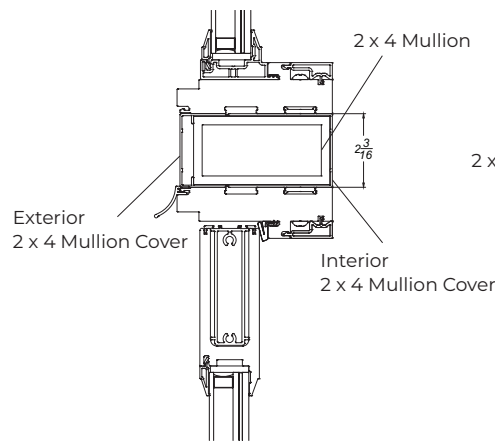


Full Frame

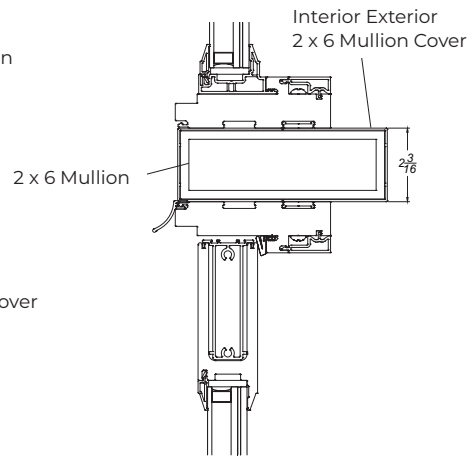


Exterior Mullion Cover

1" French Door Mullion
(Vertical)



2X4 Tube Mullion
(Horizontal)



2X6 Tube Mullion
(Horizontal)

NOMINAL DOOR SIZES

HEIGHT	WIDTH				
	79-3/4"	25-1/2"	31-1/2"	33-1/2"	37-1/2"
83-3/4"	2068	2668	2868	3068	3168
95-3/4"	2070	2670	2870	3070	3170
	2080	2680	2880	3080	3180

NOMINAL DOOR SIZES

HEIGHT	WIDTH				
	79-3/4"	47-3/4"	59-3/4"	63-3/4"	71-3/4"
83-3/4"	4068	5068	5468	6068	6468
95-3/4"	4070	5070	5470	6070	6470
	4080	5080	5480	6080	6480

Preferred French Door

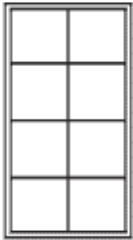
FD5555 & FD5455

EGRESS SIZES

	SINGLE DOOR	DOUBLE DOOR
Egress Door Sizes	36-3/4" x 80-7/8"	72-7/16" x 80-7/8"

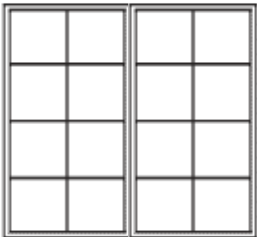
Egress Sizes are based on standard window features. Material or design changes may be made without notice or liability. In the event of discrepancies, only those egress opening sizes displayed in Quoting System will be honored.

STANDARD LITES FOR COLONIAL GRIDS



SINGLE FRENCH DOOR		
Single Door Width	Up to 31.500"	=2 lites across (1V) per panel
Single Door Width	31.501" - 38.812"	=3 lites across (2V) per panel
Door Height	Up to 84"	=5 lites down (4H) per panel
Door Height	84.001" - 96"	=6 lites down (5H) per panel

STANDARD LITES FOR COLONIAL GRIDS



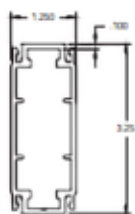
DOUBLE FRENCH DOOR		
Double Door Width	Up to 62"	=2 lites across (1V) per panel
Double Door Width	62.001" - 76"	=3 lites across (2V) per panel
Door Height	Up to 84"	=5 lites down (4H) per panel
Door Height	84.001" - 96"	=6 lites down (5H) per panel

Mulls

5500 & 5400

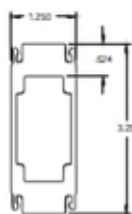
Mulls

1-1/4" x 3-1/4" x .100"



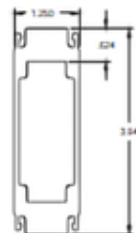
This mullion adds 1-1/4" to the buck opening

1-1/4" x 3-1/4" x .625"



This mullion adds 1-1/4" to the buck opening

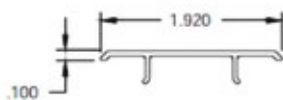
1-1/4" x 4" x .625"



This mullion adds 1-1/4" to the buck opening

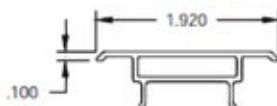
Mull Covers

Shallow



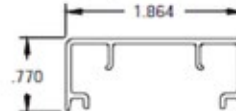
Interior mullion cover used w/ all 3-1/4" mullions

Shallow Deep



Exterior mullion cover uses w/ all mullion types on units without a flange

Deep Extended



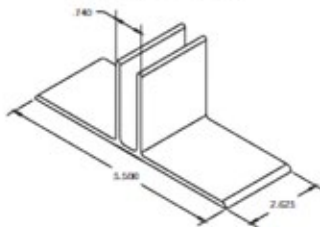
Interior mullion cover used w/ 4" mullion

Mulls

5500 & 5400

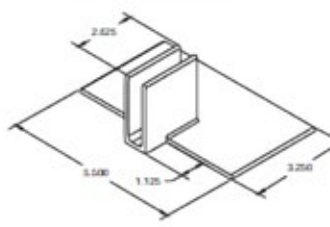
Mull Clips

Standard 1-1/4" Clip



Designed to anchor mull in an opening

Offset 1-1/4" Clip



Designed to anchor mull in an opening with a .863" offset

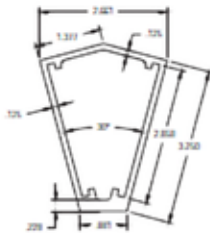
1-1/4" U-Clip



Designed to anchor a horizontal mull to a vertical mull

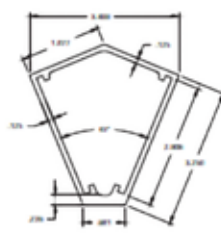
Bay Mull and Clips

30° Bay Mull



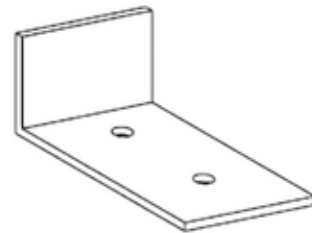
Used vertically to create bay or bow window

45° Bay Mull



Used vertically to create bay or bow window

30° & 45° Bay Mull Clip



Designed to anchor bay mull in an opening

Min/Max Size Charts

SH5500

STANDARD

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	16-1/4" x 25-1/4"	54" x 84"
O/X PROVIEW / ORIEL SASH	16-1/4" x 28"	54" x 84"
O/X COTTAGE SASH	16-1/4" x 26"	54" x 70-7/8"
O/X CUSTOM SASH	16-1/4" x 26"	54" x 91-3/4"

RADIUS TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	17-3/4" x 29-1/8" or 20" x 23-1/2"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 84"
O/X CUSTOM SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 91-3/4"

HALF RADIUS TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	17-3/4" x 29-1/8" or 20" x 23-1/2"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 84"
O/X CUSTOM SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 91-3/4"

ARCH TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	23-1/2" x 37-3/4"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	23-1/2" x 32-3/8"	52-1/8" x 84"
O/X CUSTOM SASH	23-1/2" x 32-3/8"	52-1/8" x 91-3/4"

HALF ARCH TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	16-1/4" x 37-3/4"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	16-1/4" x 32-3/8"	52-1/8" x 84"
O/X CUSTOM SASH	16-1/4" x 32-3/8"	52-1/8" x 91-3/4"

SH5400

STANDARD

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	16-1/4" x 25-1/4"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	16-1/4" x 28"	52-1/8" x 84"
O/X COTTAGE SASH	16-1/4" x 26"	52-1/8" x 70-7/8"
O/X CUSTOM SASH	16-1/4" x 26"	52-1/8" x 91-3/4"

RADIUS TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	17-3/4" x 29-1/8" or 20" x 23-1/2"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 84"
O/X CUSTOM SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 91-3/4"

HALF RADIUS TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	17-3/4" x 29-1/8" or 20" x 23-1/2"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 84"
O/X CUSTOM SASH	17-3/4" x 35" or 20-3/8" x 25-3/4"	52-1/8" x 91-3/4"

ARCH TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	23-1/2" x 37-3/4"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	23-1/2" x 32-3/8"	52-1/8" x 84"
O/X CUSTOM SASH	23-1/2" x 32-3/8"	52-1/8" x 91-3/4"

HALF ARCH TOP

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
O/X EQUAL SASH	16-1/4" x 37-3/4"	52-1/8" x 84"
O/X PROVIEW / ORIEL SASH	16-1/4" x 32-3/8"	52-1/8" x 84"
O/X CUSTOM SASH	16-1/4" x 32-3/8"	52-1/8" x 91-3/4"

Min/Max Size Charts

DH5560

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X/X EQUAL	16-1/4" x 26-1/2" or 17-1/2" x 24"	54" x 84"
X/X PROVIEW / ORIEL SASH	16-1/4" x 29"	54" x 84"
X/X COTTAGE	16-1/4" x 32"	54" x 71"
X/X CUSTOM SASH	16-1/4" x 32"	52-1/8" x 86-5/16" 54" x 84"

DH5460

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X/X EQUAL	16-1/4" x 26-1/2" or 17-1/2" x 24"	52-1/8" x 84"
X/X PROVIEW / ORIEL SASH	16-1/4" x 29"	52-1/8" x 75"
X/X CUSTOM SASH	16-1/4" x 32"	52-1/8" x 86-3/8" 52-1/8" x 86-5/16"

CA5540

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X STANDARD HINGE	17" x 20"	36" x 84"
X TRUHOLD HINGE	17" x 20"	36" x 84" 40" x 84"

CA5440

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X STANDARD HINGE	17" x 20"	36" x 75"
X TRUHOLD HINGE	17" x 20"	40" x 84"

HR5510

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
XO/OX EQUAL	25-1/2" x 20-1/4" or 33-3/4" x 16-1/4"	75" x 76"
XOX 1/4-1/2-1/4	45-1/8" x 17" or 47-3/4" x 16-1/4"	120" x 63"
XOX 1/3-1/3-1/3	35-1/4" x 17-1/4" or 38" x 16-1/4"	120" x 63"
XOX CUSTOM SASH	35-1/4" x 17-1/4" or 38" x 16-1/4"	140" x 63"

HR5410

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
XO/OX EQUAL	25-1/2" x 20-1/4" or 33-3/4" x 16-1/4"	75" x 72"
XOX 1/4-1/2-1/4	45 1/8" x 17" or 47 3/4" x 16 1/4"	120" x 63"
XOX 1/3-1/3-1/3	35 1/4" x 17 1/4" or 38" x 16 1/4"	140" x 63"
XOX CUSTOM SASH	35-1/4" x 17-1/4" or 38" x 16-1/4"	140" x 63"

AW5540

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X	24-1/4" x 16"	60" x 42" or 36" x 84" 36" x 84"

AW5440

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X	24-1/4" x 19-5/8"	36" x 75" 40" x 84"

Min/Max Size Charts

FD5555

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X	20" x 74"	38-3/4" x 96"
XX	36" x 74"	76" x 96"
O	12" x 20" or 20" x 12"	40" x 111" or 111" x 40"

FD5455

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
X	20" x 74"	38-3/4" x 96"
XX	36" x 74"	76" x 96"
O	12" x 20" or 20" x 12"	40" x 111" or 111" x 40"

SGD5570

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
By-Pass or Pocket and 90 or 135 corners	22-15/16" x 30" panel	5' x 10' panel

SGD5470

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
By-Pass or Pocket and 90 or 135 corners	22-15/16" x 27-3/4" panel	5' x 8' or 4' x 10' panels

SGD5570NS

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
By-Pass or Pocket and 90 corners	21-3/8" x 30" panel	5' x 10' panel

SGD5470NS

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)	MAXIMUM SIZE (ACTUAL DLO FRAME SIZE)
By-Pass or Pocket and 90 corners	21-3/8" x 30" panel	4' x 10' or 5' x 8' panels

Min/Max Size Charts

PW/AR5520

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)
Picture Window	10" x 16"
Half Circle	23-1/2" x 11-3/4"
Quarter Circle	13-1/4" x 13-1/4"
Eyebrow	18-1/2" x 10" x 6"
Half Eyebrow	15-1/2" x 10" x 6" or 14" x 13-3/16" x 6"
Arch	23-1/2" x 17-3/4"
Half Arch	11-3/4" x 17-3/4"
Trapezoid	16" x 10" x 6"
5 sided Trapezoid	19-1/2" x 24" x 6" x 6"
Elliptical	35-1/2" x 15-1/2"
Half Elliptical	17-3/4" x 15-1/2"
Gothic	23-1/2" x 17-5/8"
Gothic with extended leg	23-1/2" x 18-3/4"
Triangle- Left/Right	15-3/8" x 15-3/8"
Triangle- Equilateral	24" x 24"
Triangle- Isosceles	24" x 25"

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)
Peak Pentagon	32" x 14" x 6"
Hot Dog	29-1/2" x 11-3/4"
Half Hot Dog	17-3/4" x 11-3/4"
Oval	35-1/2" x 28"
Full circle	23-1/2" x 23-1/2"
Octagon	18" x 18"
Octagon w extended lef	18" x 18-1/2"
Hexagon	18" x 18"
Hexagon w extended leg	18" x 18-1/2" or 18-1/2" x 18"
Fan	23-1/2" x 10-3/4"
Half Fan	24" x 11"

PW/AR5520

		MAX WINDOW WIDTH OR HEIGHT																	
		77.76	79	81	84	86	87	91	94	96	99	104	107	111	118	120	125	136	144
MAX WINDOW WIDTH OR HEIGHT	42																		
	44																		
	48																		
	50	Always check with your local building officials for compliance requirements																	
	51																		
	54																		
	56																		
	58																		
	61																		
	63																		
	64																		
	66																		
	68																		
	70																		
	72																		
	74																		
76																			
77.76																			

Note: Not all glass strengths and make-ups are available up to the maximum size

Min/Max Size Charts

PW/AR5540

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)
Picture Window	12-1/2" x 18"
Half Circle	48" x 24"
Quarter Circle	24" x 24"
Eyebrow	45-5/8" x 22-1/2" x 8"
Half Eyebrow	22-1/16" x 22-1/2" x 8"
Arch	48" x 30"
Half Arch	24" x 30"
Trapezoid	17" x 22-1/2" x 8"
5 sided Trapezoid	17" x 22-1/2" x 8" x 8"
Elliptical	60" x 26"
Half Elliptical	60" x 26"
Gothic	24" x 20"
Gothic with extended leg	24" x 26" x 8" leg
Triangle- Left/Right	24" x 24"
Triangle- Equilateral	24" x 24"
Triangle- Isosceles	24" x 25"

CONFIGURATION	MINIMUM SIZE (ACTUAL DLO FRAME SIZE)
Peak Pentagon	17" x 22" x 8"
Hot Dog	56" x 24"
Half Hot Dog	32" x 24"
Oval	60" x 52"
Full circle	48" x 48"
Octagon	24" x 24"
Octagon w extended lef	30" x 24"
Hexagon	24" x 24"
Hexagon w extended leg	30" x 24" or 24" x 30"
Fan	48" x 22"
Half Fan	24" x 22"

PW/AR5540

		MAX WINDOW WIDTH OR HEIGHT																	
		77.76	79	81	84	86	87	91	94	96	99	104	107	111	118	120	125	136	144
MAX WINDOW WIDTH OR HEIGHT	42																		
	44																		
	48																		
	50	Always check with your local building officials for compliance requirements																	
	51																		
	54																		
	56																		
	58																		
	61																		
	63																		
	64																		
	66																		
	68																		
	70																		
	72																		
	74																		
76																			
77.76																			

Note: Not all glass strengths and make-ups are available up to the maximum size

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04/2026 ME0300575

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