

PGT®

# WinGuard® and ClassicVue Max®

ALUMINUM 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 Miami-Dade protocols
- Qualified as large and small missile
- Florida Building Code approved
- National Fenestration Rating Council (NFRC) certified

## ENERGY PERFORMANCE

- Standard: Laminated Glass
- High performance Low-E and argon gas available with laminated insulated glass
- Various glass tints
- 4SG Fusion Bonded Spacer virtually eliminates seal failure on insulated glass

## CONTINUOUS PROTECTION

- Protect against high winds and wind-borne debris with WinGuard® Aluminum
- 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

## FEATURES

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

## STYLES

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

## FRAMES

- Heavy-duty extruded aluminum
- Nominal 2-3/4" window frame depth
- 1/2" Flange frame type with all windows
- Integral Nail-Fin type available with Single Hung, Casement, Horizontal Roller, Picture Window, and Architectural Shapes
- Equal Leg Frame type available with Single Hung, Horizontal Roller, Picture Window, and Architectural Shapes

## FRAME COLORS

- Standard: White, Black, Bronze
- Optional Clear Anodize
- Custom colors and finishes available

Additional frame colors available with FD450:

- Velvet Grey, Southbeach Silver, Bermuda Bronze, Bone White, Hazelnut Brown, Mahogany Red, Walnut Brown

## GLAZING

- WinGuard Aluminum: Standard impact resistance laminated glass, optional laminated insulated glass
- ClassicVue Max: Standard monolithic glass, insulated glass optional
- All products are exterior glazed
- All products are silicone exterior glazed for greater strength and seal
- Windows and doors have extruded aluminum glazing bead for stronger resistance to wind load

## GLASS OPTIONS

- Standard: Clear, Bronze, Gray, Green
- Premium: Azure Blue, Solarcool® Bronze, Graylite®II
- Low-E: EnergyShield™, EnergyShield Max™, SolarControl LowE2, EnergyShield Gray
    - WinGuard Aluminum: laminated, and laminated insulated glass
    - ClassicVue Max: insulated glass only
- Privacy Glass: Obscure Glass, Rain, White Interlayer
- Turtle Glass: Tinted to reduce light and protect the natural habitat of marine turtles

# General Specifications

## COLONIAL GRIDS

### WinGuard Aluminum

- Laminated glass
  - Double applied: 1" Raised exterior grid with flat bar interior
- Laminated insulated glass
  - 9/16" Flat grid between the glass

### ClassicVue Max

- Monolithic glass
  - Double applied: 1" Raised exterior grid with flat bar interior
- Monolithic insulated glass
  - 9/16" Flat grid between the glass

### FD160

- 1" Flat/flat applied grid
- 1" Raised/flat (triangle with flat bar)
- 1" Contemporary SDL (flat/flat with shadowbar)
- 13/16" Flat grid between glass
- 9/16" Flat grid between glass

### FD450

- 1" Flat/flat applied grid
- 1" Raised/flat (triangle with flat bar) applied
- 1" Raised ogee exterior/flat interior (ogee/flat applied)
- 1" Ogee double applied (ogee/ogee) applied
- 1" Contemporary SDL (flat/flat with shadowbar)
- 13/16" Flat grid between the glass
- 3-1/2" Raised square double applied
- 3-1/2" Raised square/flat applied
- 3-1/2" Raised contoured double cpplied
- 3-1/2" Square/flat double applied

## 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 |
|---|---|---|
| TTT window width + 3/4" | TTT window width + 3/4" | DLO window width + 1/4" |
| TTT window height | TTT window height + 3/4" | TTT 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

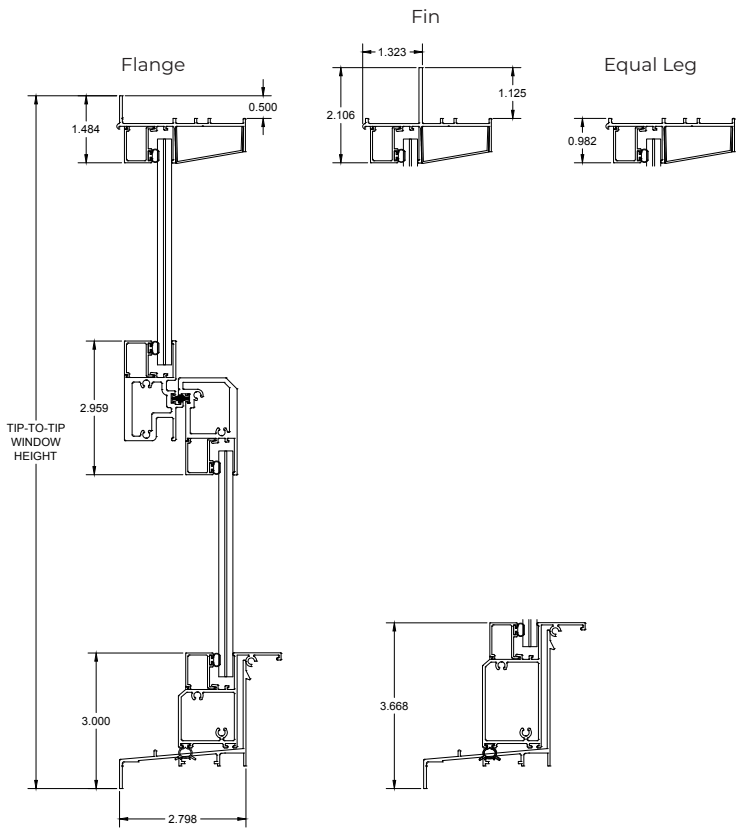
## S7700A AND SH7600A

### FEATURES

- 2-3/4" nominal frame depth
- 1/2" flange frame
- WinGuard Aluminum: 5/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- Equal lite glass configuration
- Spiral balances
- Stainless steel assembly screws
- Roll-formed half screen with 1816 charcoal mesh

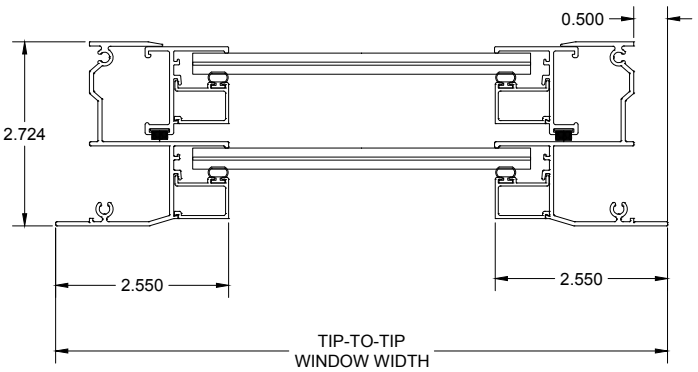
### OPTIONS

- Commodity, Modular, Nominal, and Custom sizes
- Integral Fin & Equal Leg frame
- WinGuard Aluminum: Laminated insulated glass or 7/16" laminated glass
- ClassicVue Max: Insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Proview/Oriel, Custom Sash
- Radius Top and Half Radius Top
- Bottom sash locks
- Vent Latches
- Window Opening Control Device (WOCD)
- High rise sill
- Design pressure options available




Standard Sill

High Rise Sill




### PERFORMANCE

#### WinGuard Aluminum

- Sizes up to 53-1/8" x 84"
- Design Pressures up to +80/-130

#### ClassicVue Max

- Sizes up to 53-1/8" x 84"
- Design pressures up to +80/-130

WinGuard® Aluminum glazing shown.

# Single-Hung

## S7700A AND SH7600A

### COMMODITY FLANGE SIZES

| | WIDTH | | | |
|---|---|---|---|---|
| HEIGHT | 19-1/8" | 26-1/2" | 37" | 53-1/8" |
| 26" | 12 | H32 | 22 | 32 |
| 38-3/8" | 13 | H33 | 23 | 33 |
| 50-5/8" | 14 | H34 | 24 | 34 |
| 59-5/8" | 14EH | H34EH | 24EH | 34EH |
| 63" | 15 | H35 | 25 | 35 |
| 76" | 16 | H36 | 26 | 36 |
| 84" | 17 | H37 | 27 | 37 |

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

### MODULAR FLANGE SIZES

| | WIDTH | | | | |
|---|---|---|---|---|---|
| HEIGHT | 24" | 32" | 40" | 44" | 478" |
| 26" | 2022 | 2822 | 3422 | 3822 | 4022 |
| 38-3/8" | 2033 | 2833 | 3433 | 3833 | 4033 |
| 50-5/8" | 2043 | 2843 | 3443 | 3843 | 4043 |
| 59-1/2"+ | 2043EH | 2843EH | 3443EH | 3843EH | 4043EH |
| 63" | 2053 | 2853 | 3453 | 3853 | 4053 |
| 76" | 2064 | 2864 | 3464 | 3864 | 4064 |

### NOMINAL FLANGE SIZES

| | WIDTH | | | | | | |
|---|---|---|---|---|---|---|---|
| HEIGHT | 23-1/2" | 29-1/2" | 31-1/2" | 35-1/2" | 41-1/2" | 43-1/2" | 47 1/2" |
| 35-1/2" | 2030 | 2630 | 2830 | 3030 | 3630 | 3830 | 4030 |
| 43-1/2" | 2038 | 2638 | 2838 | 3038 | 3638 | 3838 | 4038 |
| 47-1/2" | 2040 | 2640 | 2840 | 3040 | 3640 | 3840 | 4040 |
| 49-1/2" | 2042 | 2642 | 2842 | 3042 | 3642 | 3842 | 4042 |
| 53-1/2" | 2046 | 2646 | 2846 | 3046 | 3646 | 3846 | 4046 |
| 59-1/2" | 2050 | 2650 | 2850 | 3050 | 3650 | 3850 | 4050 |
| 61-1/2" | 2052 | 2652 | 2852 | 3052 | 3652 | 3852 | 4052 |
| 65-1/2" | 2056 | 2656 | 2856 | 3056 | 3656 | 3856 | 4056 |
| 71-1/2" | 2060 | 2660 | 2860 | 3060 | 3660 | 3860 | 4060 |
| 73-1/2" | 2062 | 2662 | 2862 | 3062 | 3662 | 3862 | 4062 |

Note: Egress calculations are based upon equal sash, with standard sill and no options.
Calculate additional sizes and configurations by using the formula or Quoting System.

Flange sizes shown. Integral Nail Fin and Equal Leg frame, deduct 1" from both width and height.

# Single-Hung

## S7700A AND SH7600A

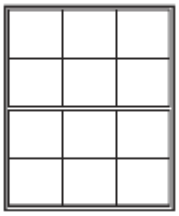
### EGRESS FORMULA

| EQUAL SASH | ALL FRAME TYPES |
|---|---|
| Clear Opening Width | Actual window width - 5.120" |
| Clear Opening Height (Standard) | (Actual window height * .500) - 6.234" |
| Clear Opening Height (Hi-Rise Sill) | (Actual window height * .500) - 7.232" |

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.

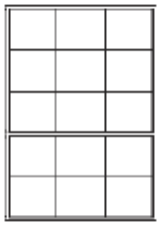
+ EH and 5-High Call Size windows do not follow the standard egress formula. Special modifications are made to meet egress only on these Call Sizes.

### EQUAL SASH STANDARD LITES FOR COLONIAL GRIDS



| EQUAL SASH CONFIGURATION | | |
|---|---|---|
| Window Width | Up to 31.9" | = 2 lites across (1V) per lite of glass |
| Window Width | 32" - 42.9" | = 3 lites across (2V) per lite of glass |
| Window Width | 43" - 53.125" | = 4 lites across (3V) per lite of glass |
| | | |
| Window Height | Up to 31.9" | = 1 lite down (0H) per lite of glass |
| Window Height | 32" - 76.9" | = 2 lites down (1H) per lite of glass |
| Window Height | 77" - 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 31.9" | = 2 lites across (1V) per lite of glass |
| Window Width | 32" - 42.9" | = 3 lites across (2V) per lite of glass |
| Window Width | 43" - 53.125" | = 4 lites across (3V) per lite of glass |
| | | |
| Window Height | Up to 31.9" | Vent = 1 lites down (0H) per lite of glass |
| | | Fixed = 2 lites down (1H) per lite of glass |
| Window Height | 32" - 76.9" | Vent = 2 lites down (1H) per lite of glass |
| | | Fixed = 3 lites down (2H) per lite of glass |
| Window Height | 77" - 84" | Vent = 3 lites down (2H) per lite of glass |
| | | Fixed = 4 lites down (3H) per lite of glass |

# Horizontal Roller

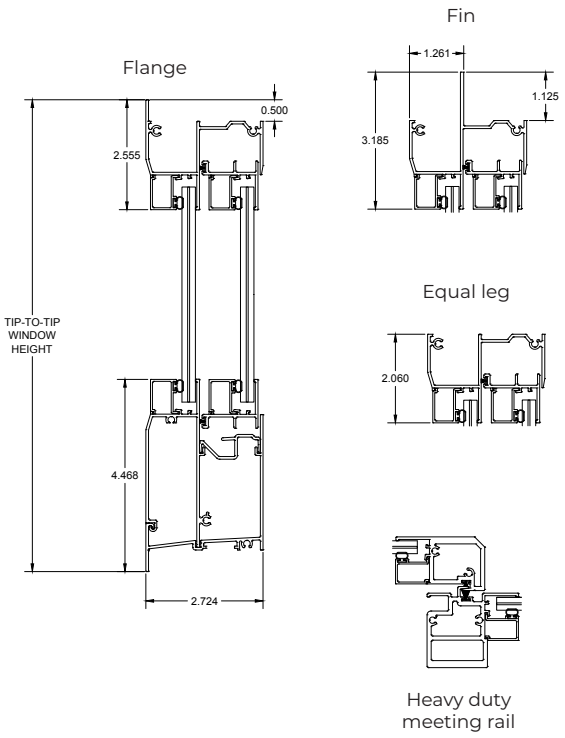
## HR7710A AND HR7610A

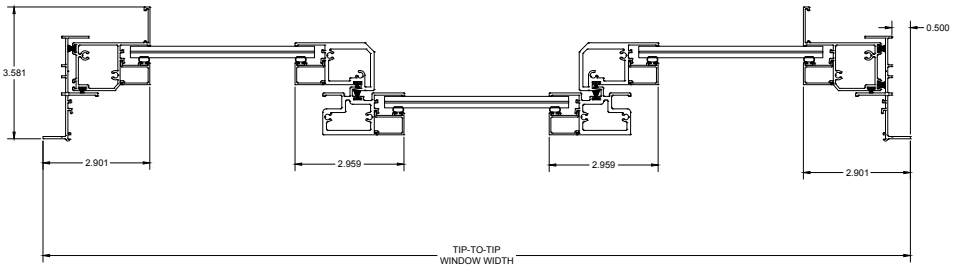
### FEATURES:

- 2-3/4" nominal frame depth
- 1/2" flange frame
- WinGuard Aluminum: Laminated insulated glass or 7/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- Equal lite glass configuration
- Stainless steel bearing roller
- Stainless steel assembly screws
- Roll-formed half screen with 1816 charcoal mesh

### OPTIONS:

- Commodity, Modular, Nominal, and Custom sizes
- Integral Fin & Equal Leg frame
- WinGuard Aluminum: Laminated insulated glass
- ClassicVue Max: Insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- 2-Lite (XO or OX), 3-Lite (XOX), or custom configuration
- Vent Latches
- Window Opening Control Device (WOCD)
- Heavy-Duty Meeting Rail
- Design pressure options available




Standard meeting rail

### PERFORMANCE:

#### WinGuard Aluminum

- Flange size 2-Lite configurations up to 76" x 76"
- Flange size 3-Lite configurations up to 120" x 63"
- Design pressures up to +80/-130

#### ClassicVue Max

- Flange size 2-Lite configurations up to 76" x 76"
- Flange size 3-Lite configurations up to 120" x 63"
- Design pressures up to +65/-130

# Horizontal Roller

## HR7710A AND HR7610A

### XO/OX COMMODITY FLANGE SIZES

| | WIDTH | | | |
|---|---|---|---|---|
| HEIGHT | 26-1/2" | 37" | 53-1/8" | 74" |
| 26" | H32 | 22 | 32 | D22 |
| 38 3/8" | H33 | 23 | 33 | D23 |
| 50 5/8" | H34 | 24 | 34 | D24 |
| 63" | H35 | 25 | 35 | D25 |

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

### XO/OX MODULAR FLANGE SIZES

| | WIDTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| HEIGHT | 24" | 36" | 48" | 54" | 60" | 66" | 72" | 74" | 76" |
| 24" | 2020M | 3020M | 4020M | 4620M | 5020M | 5620M | 6020M | 6220M | - |
| 26" | 2022 | 3022 | 4022 | 4622 | 5022 | 5622 | 6022 | - | 6422 |
| 36" | 2030M | 3030M | 4030M | 4630M | 5030M | 5630M | 6030M | 6230M | - |
| 38-3/8" | 2033 | 3033 | 4033 | 4633 | 5033 | 5633 | 6033 | - | 6433 |
| 48" | 2040M | 3040M | 4040M | 4640M | 5040M | 5640M | 6040M | 6240M | - |
| 50-5/8" | 2043 | 3043 | 4043 | 4643 | 5043 | 5643 | 6043 | - | 6443 |
| 54" | 2046M | 3046M | 4046M | 4646M | 5046M | 5646M | 6046M | 6246M | - |
| 60" | 2050M | 3050M | 4050M | 4650M | 5050M | 5650M | 6050M | 6250M | - |
| 63" | 2053 | 3053 | 4053 | 4653 | 5053 | 5653 | 6053 | - | 6453 |
| 72" | 2060 | 3060 | 4060 | 4660 | 5060 | 5660 | 6060 | - | 6460 |
| 76" | 2064 | 3064 | 4064 | 4664 | 5064 | 5664 | 6064 | - | 6464 |

### XO/OX NOMINAL FLANGE SIZES

| | WIDTH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| HEIGHT | 23 1/2" | 35 1/2" | 47 1/2" | 53 1/2" | 59 1/2" | 65 1/2" | 71 1/2" | 73 1/2" |
| 23-1/2" | 2020 | 3020 | 4020 | 4620 | 5020 | 5620 | 6020 | 6220 |
| 35-1/2" | 2030 | 3030 | 4030 | 4630 | 5030 | 5630 | 6030 | 6230 |
| 47-1/2" | 2040 | 3040 | 4040 | 4640 | 5040 | 5640 | 6040 | 6240 |
| 53-1/2" | 2046 | 3046 | 4046 | 4646 | 5046 | 5646 | 6046 | 6246 |
| 59-1/2" | 2050 | 3050 | 4050 | 4650 | 5050 | 5650 | 6050 | 6250 |

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.

Flange sizes shown. Integral Nail Fin and Equal Leg frame, deduct 1" from both width and height.

# Horizontal Roller

## HR7710A AND HR7610A

### XOX 1/4-1/2-1/4 COMMODITY FLANGE SIZES

| | WIDTH | | | |
|---|---|---|---|---|
| HEIGHT | 53-1/8" | 74" | 106-3/8" | 111" |
| 26" | 32 | D22 | D32 | T22 |
| 38-3/8" | 33 | D23 | D33 | T23 |
| 50-5/8" | 34 | D24 | D34 | T24 |
| 63" | 35 | D25 | D35 | T25 |

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

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

| | WIDTH | | | | | | |
|---|---|---|---|---|---|---|---|
| HEIGHT | 48" | 60" | 72" | 84" | 96" | 108" | 120" |
| 24" | 4020M | 5020M | 6020M | 7020M | 8020M | 9020M | 10020M |
| 26" | 4022 | 5022 | 6022 | 7022 | 8022 | 9022 | 10022 |
| 36" | 4030M | 5030M | 6030M | 7030M | 8030M | 9030M | 10030M |
| 38-3/8" | 4033 | 5033 | 6033 | 7033 | 8033 | 9033 | 10033 |
| 48" | 4040M | 5040M | 6040M | 7040M | 8040M | 9040M | 10040M |
| 50-5/8" | 4043 | 5043 | 6043 | 7043 | 8043 | 9043 | 10043 |
| 54" | 4046M | 5046M | 6046M | 7046M | 8046M | 9046M | 10046M |
| 60" | 4050M | 5050M | 6050M | 7050M | 8050M | 9050M | 10050M |
| 63" | 4053 | 5053 | 6053 | 7053 | 8053 | 9053 | 10053 |

### XOX 1/4-1/2-1/4 NOMINAL INTEGRAL FIN SIZES

| | WIDTH | | | | | | |
|---|---|---|---|---|---|---|---|
| HEIGHT | 47-1/2" | 59-1/2" | 71-1/2" | 73-1/2" | 83-1/2" | 95-1/2" | 107-1/2" |
| 23-1/2" | 4020 | 5020 | 6020 | 6220 | 7020 | 8020 | 9020 |
| 35-1/2" | 4030 | 5030 | 6030 | 6230 | 7030 | 8030 | 9030 |
| 47-1/2" | 4040 | 5040 | 6040 | 6240 | 7040 | 8040 | 9040 |
| 53-1/2" | 4046 | 5046 | 6046 | 6246 | 7046 | 8046 | 9046 |
| 59-1/2" | 4050 | 5050 | 6050 | 6250 | 7050 | 8050 | 9050 |

Note: Egress calculations are based upon equal sash, 5/16" laminated glass with standard sill and no options. Calculate additional sizes and configurations by using the formula or Quoting System.

Flange sizes shown. Integral Nail Fin and Equal Leg frame, deduct 1" from both width and height.

# Horizontal Roller

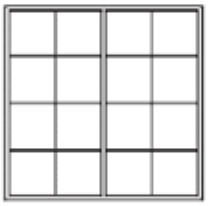
## HR7710A AND HR7610A

### EGRESS FORMULA

| 2-LITE XO.OX | FLANGE FRAME | INTEGRAL NAIL FIN & EQUAL LEG FRAME |
|---|---|---|
| Clear Opening Width | (Actual window width / 2) - 3.992" | (Actual window width / 2) - 4.976" |
| Clear Opening Height | Actual window height - 7.032" | Actual window height - 6.032" |
| | | |
| **3-LITE XOX 1/4-1/2-1/4** | **FLANGE FRAME** | **INTEGRAL NAIL FIN & EQUAL LEG FRAME** |
| Clear Opening Width | (Actual window width / 4) - 1.015" | (Actual window width / 4) - .765" |
| Clear Opening Height | Actual window height - 7.032" | Actual window height - 6.032" |
| | | |
| **3-LITE XOX 1/3-1/3-1/3** | **FLANGE FRAME** | **INTEGRAL NAIL FIN & EQUAL LEG FRAME** |
| Clear Opening Width | (Actual window width / 3) - 3.875" | (Actual window width / 3) - 3.543" |
| Clear Opening Height | Actual window height - 7.032" | Actual window height - 6.032" |

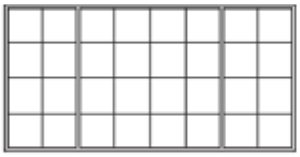
Egress Formulas are based on standard window features. Material or design changes may be made without notice or liability. In the event of discrepancies, only those egress opening sizes displayed in Quoting System will be honored.

### XO/OX EQUAL SASH STANDARD LITES FOR COLONIAL GRIDS



| 2-LITE CONFIGURATION | | |
|---|---|---|
| Window Width | Up to 31.9" | = 1 lites across (0V) per lite of glass |
| Window Width | 32" - 71.9" | = 2 lites across (1V) per lite of glass |
| Window Width | 72" - 76" | = 3 lites across (2V) per lite of glass |
| | | |
| Window Height | Up to 31.9" | = 2 lites down (1H) per lite of glass |
| Window Height | 32" - 42.9" | = 3 lites down (2H) per lite of glass |
| Window Height | 43" - 63.9" | = 4 lites down (3H) per lite of glass |
| Window Height | 64" - 76" | = 5 lites down (4H) per lite of glass |

### XOX 1/4-1/2-1/4 SASH STANDARD LITES FOR COLONIAL GRIDS



| 3-LITE CONFIGURATION UNEQUAL | | |
|---|---|---|
| Window Width | Up to 60" | = Vents - 1 lite across (0V) per lite of glass |
| | | = Fixed - 2 lites across (1V) per lite of glass |
| Window Width | 60.001" - 120" | = Vents - 2 lites across (1V) per lite of glass |
| | | = Fixed - 4 lites across (3V) per lite of glass |
| | | |
| Window Height | Up to 31.9" | = 2 lites down (1H) per lite of glass |
| Window Height | 32" - 42.9" | = 3 lites down (2H) per lite of glass |
| Window Height | 43" - 63" | = 4 lites down (3H) per lite of glass |

# Casement

## CA740 AND CA640

### FEATURES

- 2-3/4" nominal frame depth
- 1/2" flange frame
- WinGuard Aluminum: 5/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- Hinge left or hinge right
- Washable or egress hinge
- Nesting handle
- Multi-point lock system
- Extruded screen with 1816 charcoal mesh

### OPTIONS

- Commodity, Modular, and Custom sizes
- Fin frame
- WinGuard Aluminum: Laminated insulated glass
- ClassicVue Max: Insulated glass optional
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Stainless steel hardware package
- Egress washable hinge
- Design pressure options available
- Hardware finish upgrades
- WOCD

### PERFORMANCE

#### WinGuard Aluminum

- Flange sizes up to 37" x 76" or 33-1/2" x 84"
- Design pressures up to +90/-130

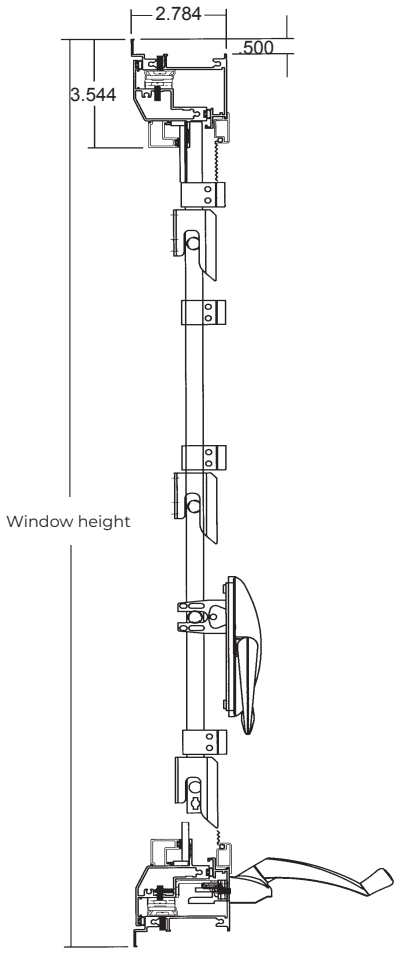
#### ClassicVue Max

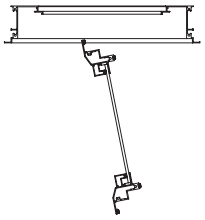
- Flange sizes up to 37" x 76" or 33-1/2" x 84"
- Design pressures up to +90/-150"

### COMPANION PRODUCTS

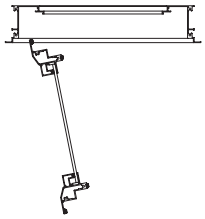
AW740/AW640, PW740/PW640

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

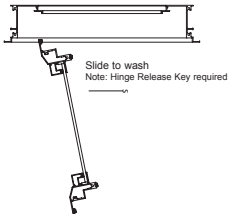


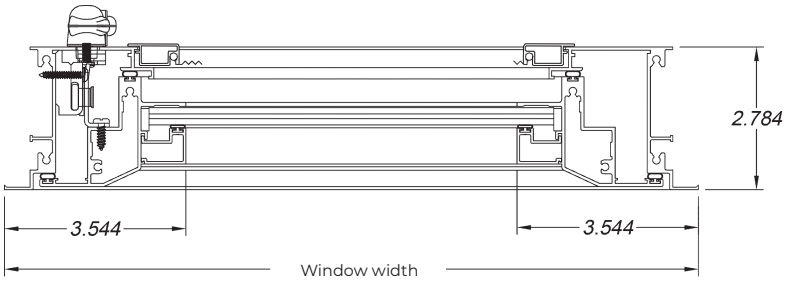
Washable hinge



Egress hinge




Egress Washable hinge



# Casement

## CA740 AND CA640

### COMMODITY SIZES

| Washable Hinge | WIDTH | | |
|---|---|---|---|
| HEIGHT | 19-1/8" | 26-1/2" | 37" |
| 26" | 12 | H32 | 22 |
| 38-3/8" | 13 | H33 | 23 |
| 50-5/8" | 14 | H34 | 24 |
| 63" | 15 | H35 | 25 |
| 76" | 16 | H36 | 26 |

### COMMODITY SIZES

| Egress Hinge | WIDTH | | |
|---|---|---|---|
| HEIGHT | 19-1/8" | 26-1/2" | 37" |
| 26" | - | H32 | 22 |
| 38-3/8" | - | H33 | 23 |
| 50-5/8" | - | H34 | 24 |
| 63" | - | H35 | 25 |
| 76" | - | H36 | 26 |

Egress is 5.0 SF or greater

Egress is 5.7 SF or greater

### MODULAR SIZES

| Washable Hinge | WIDTH | | | | |
|---|---|---|---|---|---|
| HEIGHT | 24" | 30" | 32" | 33-1/2" | 36" |
| 24" | 2020 | 2620 | 2820 | 2920 | 3020 |
| 36" | 2030 | 2630 | 2830 | 2930 | 3030 |
| 48" | 2040 | 2640 | 2840 | 2940 | 3040 |
| 60" | 2050 | 2650 | 2850 | 2950 | 3050 |
| 72" | 2060 | 2660 | 2860 | 2960 | 3060 |
| 84" | 2070 | 2670 | 2870 | 2970 | 3070 |

### MODULAR SIZES

| Egress Hinge | WIDTH | | | | |
|---|---|---|---|---|---|
| HEIGHT | 24" | 30" | 32" | 33-1/2" | 36" |
| 24" | - | 2620 | 2820 | 2920 | 3020 |
| 36" | - | 2630 | 2830 | 2930 | 3030 |
| 48" | - | 2640 | 2840 | 2940 | 3040 |
| 60" | - | 2650 | 2850 | 2950 | 3050 |
| 72" | - | 2660 | 2860 | 2960 | 3060 |
| 84" | - | 2670 | 2870 | 2970 | - |

Note: Calculate additional sizes and configurations by using the formula or Quoting System.

# Casement

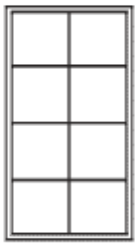
## CA740 AND CA640

### EGRESS FORMULA

| | STANDARD WASHABLE HINGE | EGRESS HINGE |
|---|---|---|
| CLEAR OPENING WIDTH | Actual window width - 13.500" | Actual window width - 7.500" |
| CLEAR OPENING HEIGHT | Actual window height - 6.00" | Actual window height - 6.00" |

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 30" | = 2 lites across (1V) per lite of glass |
| Window Width | 30.001" - 37" | = 3 lites across (2V) per lite of glass |
| | | |
| Window Height | Up to 30" | = 2 lites down (1H) per lite of glass |
| Window Height | 30.001" - 40" | = 3 lites down (2H) per lite of glass |
| Window Height | 40.001" - 51" | = 4 lites down (3H) per lite of glass |
| Window Height | 51.001" - 65" | = 5 lites down (4H) per lite of glass |
| Window Height | 65.001" - 76" | = 6 lites down (5H) per lite of glass |
| Window Height | 76.001" - 84" | = 7 lites down (6H) per lite of glass |

# Awning

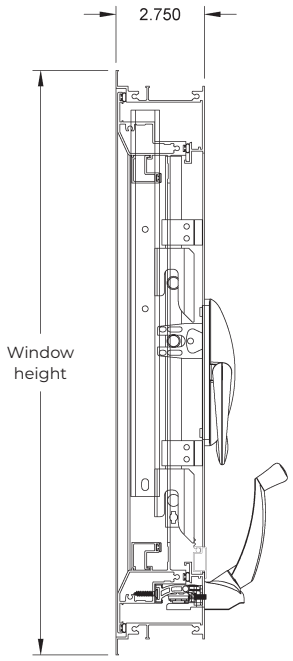
## AW740 AND AW640

### FEATURES

- 2-3/4" nominal frame depth
- 1/2" flange frame
- WinGuard Aluminum: 5/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- Multi-point lock system
- Extruded screen with 1816 charcoal mesh

### OPTIONS

- Commodity, Modular, and Custom sizes
- WinGuard Aluminum: Laminated insulated glass or 7/16" laminated glass
- ClassicVue Max: Insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Stainless steel hardware package
- Nesting handle
- Design pressure options available
- Hardware finish upgrades
- Vent limiter
- Anchor plate




Projected Awning

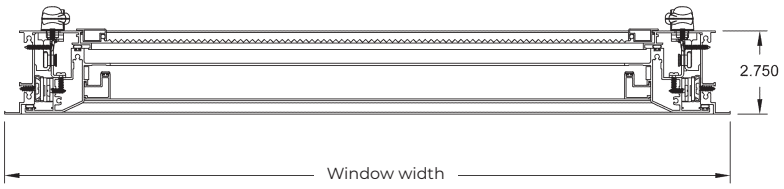
### PERFORMANCE

#### WinGuard Aluminum

- Flange sizes up to 60" x 39" or 27-7/8" x 84"
- Design pressures up to +90/-130

#### ClassicVue Max

- Flange sizes up to 60" x 39" or 27-7/8" x 84"
- Design pressures up to +90/-150




Projected Awning

### COMPANION PRODUCT

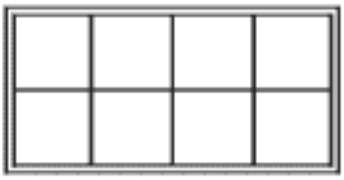
#### CA740/CA640, PW740/PW640

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

# Awning

## AW740 AND AW640

### STANDARD LITES FOR COLONIAL GRIDS



| PROJECTED AWNING CONFIGURATION | | |
|---|---|---|
| Window Width | Up to 30" | = 2 lites across (1V) per lite of glass |
| Window Width | 30.001" - 37" | = 3 lites across (2V) per lite of glass |
| Window Width | 37.001" - 60" | = 4 lites across (3V) per lite of glass |
| | | |
| Window Height | Up to 30" | = 2 lites down (1H) per lite of glass |
| Window Height | 30.001" - 40" | = 3 lites down (2H) per lite of glass |
| Window Height | 40.001" - 51" | = 4 lites down (3H) per lite of glass |
| Window Height | 51.001" - 65" | = 5 lites down (4H) per lite of glass |
| Window Height | 65.001" - 76" | = 6 lites down (5H) per lite of glass |
| Window Height | 76.001" - 84" | = 7 lites down (6H) per lite of glass |

Note: Awning windows do not need egress

# Casement Picture Window

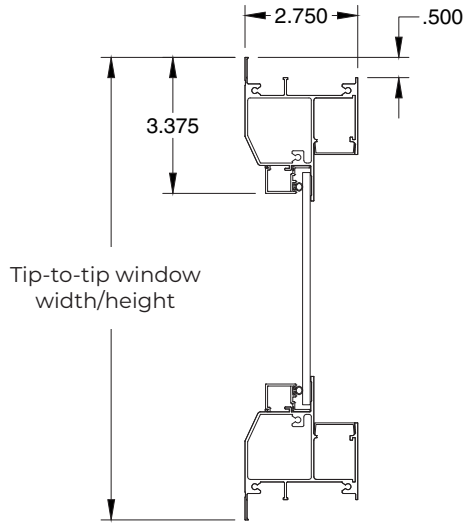
## PW740 AND PW640

### FEATURES

- 2-3/4" nominal frame depth
- 1/2" flange frame
- WinGuard Aluminum: 5/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- Multi-point lock system

### OPTIONS

- Commodity, Modular, and Custom sizes
- WinGuard Aluminum: Laminated insulated glass or 7/16" laminated glass
- ClassicVue Max: Insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Stainless steel hardware package
- Design pressure options available




Casement
Fixed Lite

### PERFORMANCE

WinGuard Aluminum

- Flange sizes up to 32 square feet
- Design pressures up to +90/-130

ClassicVue Max

- Flange sizes up to 31.5 square feet
- Design pressures up to +90/-150

### COMPANION PRODUCT

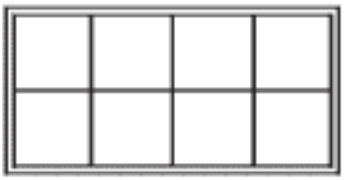
CA740/CA640, AW740/AW640

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

# Casement Picture Window

## PW740 AND PW640

### STANDARD LITES FOR COLONIAL GRIDS



| PROJECTED AWNING CONFIGURATION | | |
|---|---|---|
| Window Width | Up to 30" | = 2 lites across (1V) per lite of glass |
| Window Width | 30.001" - 37" | = 3 lites across (2V) per lite of glass |
| Window Width | 37.001" - 60" | = 4 lites across (3V) per lite of glass |
| | | |
| Window Height | Up to 30" | = 2 lites down (1H) per lite of glass |
| Window Height | 30.001" - 40" | = 3 lites down (2H) per lite of glass |
| Window Height | 40.001" - 51" | = 4 lites down (3H) per lite of glass |
| Window Height | 51.001" - 65" | = 5 lites down (4H) per lite of glass |
| Window Height | 65.001" - 76" | = 6 lites down (5H) per lite of glass |
| Window Height | 76.001" - 84" | = 7 lites down (6H) per lite of glass |

# Fixed Lite Picture Window & Architectural

## PW/AR7720A AND PW/AR7620A

### FEATURES

- 2-3/4" nominal frame depth
- 1/2" flange frame
- WinGuard Aluminum: 7/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- Standard style rectangular picture window
- Various architectural shapes

### OPTIONS

- Integral Fin & Equal Leg frame
- WinGuard Aluminum: Laminated insulated glass or 7/16" laminated glass
- ClassicVue Max: Insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Stainless steel assembly screws
- Design pressure options available
- Grids available

### PERFORMANCE

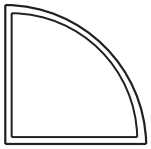
WinGuard Aluminum

- Sizes up to 42 sq. ft.
- Design Pressures up to +90/-130

ClassicVue Max

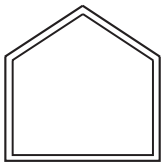
- Sizes up to 51.21 sq. ft.
- Design Pressures up to +100/-145.8

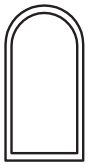

Half Circle

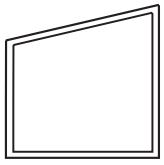

Quarter Circle

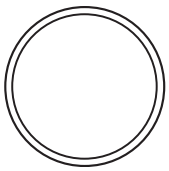

Eyebrow


Fan


Eyebrow


Arch

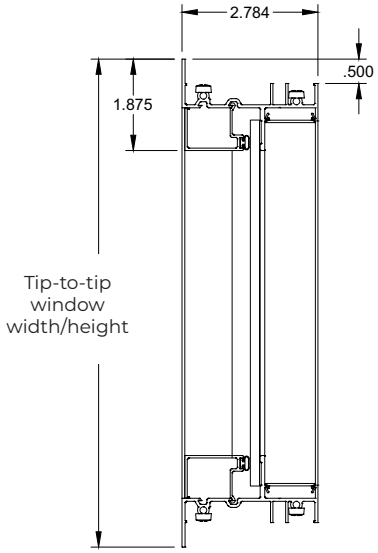

Trapezoid


Full Circle

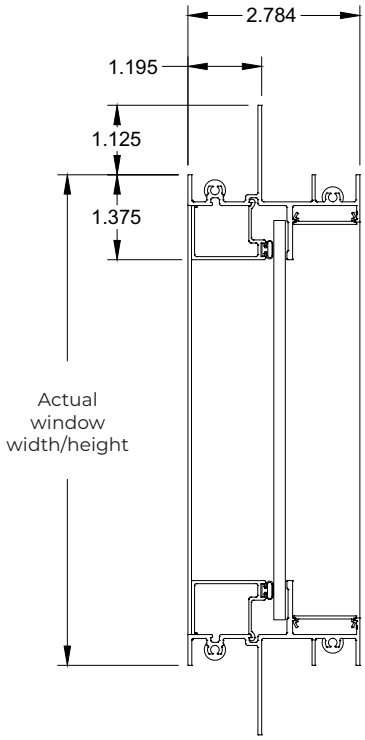
Note: Other shapes are available.

# Fixed Lite Picture Window & Architectural

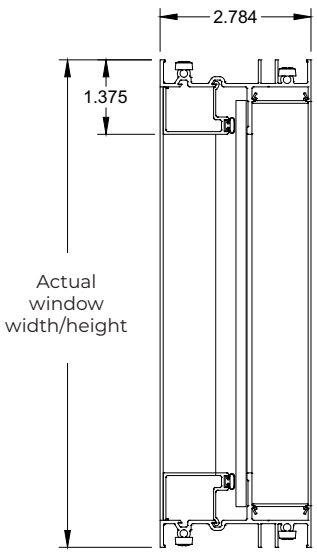
## PW/AR7720A AND PW/AR7620A




Integral Nail Fin




Integral Nail Fin




Equal Leg

# Preferred Sliding Glass Door

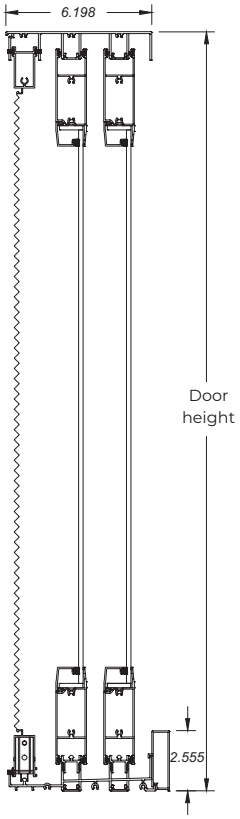
## SGD770 AND SGD670

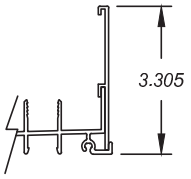
### FEATURES

- WinGuard Aluminum: 7/16" laminated glass
- ClassicVue Max: 3/16" monolithic glass
- 2, 3, or 4 tracks
- 2-1/2" Clear Anodize sill
- Multi-panel by-pass and pocket configurations
- Dual-point mortise lock
- Traditional tandem stainless steel or nylon roller assembly (SGD770)
- Traditional tandem steel or nylon roller assembly (SGD670)

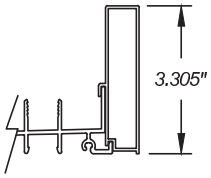
### OPTIONS

- Nominal and Custom sizes
- Configurations up to 8 panels
- WinGuard Aluminum: Laminated insulated glass or 9/16" laminated glass
- ClassicVue Max: Insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- 90° and 135° corner door configurations
- Inside or outside corner configurations
- Counter top unit (SGD770 only)
- Various sill risers
- Raised, Curved, or Contemporary handles
- Recessed pull with lock
- Secondary lock
- Reversible interlock
- Standard or box screen
- High design pressure options



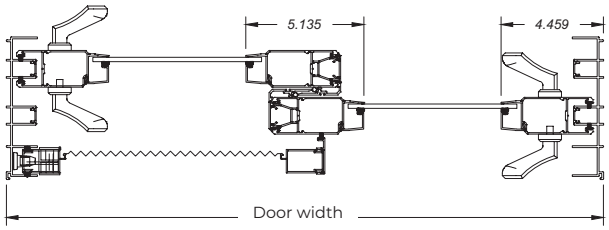

Narrow riser




Box riser

### NOMINAL SILL RISER HEIGHTS

| | |
|---|---|
| Flush | 1.500" |
| Low | 2.500" |
| Medium | 3.250" |
| High | 4.000" |



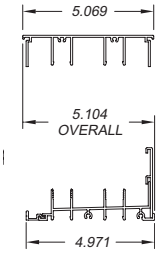

### PERFORMANCE

#### WinGuard Aluminum

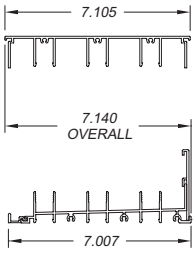
- Panel sizes up to 5'0" x 8'0" or 4'0" x 10'0"
- Design pressures up to +90/-90
- HP design pressures up to +90/-130

#### ClassicVue Max

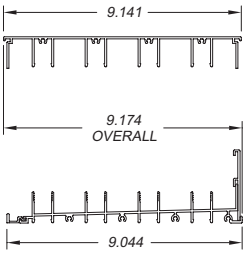
- Panel sizes up to 4' x 10' or 6' x 8'
- Design pressures up to +90/-140




2-track frame depth
for box riser add .590"




3-track frame depth
for box riser add .590"




4-track frame depth
for box riser add .590"

# Preferred Sliding Glass Door

## SGD770 AND SGD670

### NOMINAL DOOR SIZES

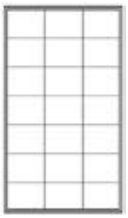
| BY-PASS CONFIGURATION | SIZE CODE | OVERALL SIZE WIDTH X HEIGHT* | | |
|---|---|---|---|---|
| 2P2T<br>XO<br>OX<br>XX | 4068 | 48" | x | 80" |
| | 5068 | 60" | x | 80" |
| | 6068 | 72" | x | 80" |
| | 8068 | 96" | x | 80" |
| | 10068 | 120" | x | 80" |
| 3P3T<br>XXX<br>XXO<br>OXX | 7668 | 88-1/8" | x | 80" |
| | 9068 | 106-1/8" | x | 80" |
| | 12068 | 142-1/8" | x | 80" |
| | 15068 | 178-1/8" | x | 80" |
| 4P2T<br>OXXO<br>XXXX | 10068 | 119-7/16" | x | 80" |
| | 12068 | 143-7/16" | x | 80" |
| | 16068 | 191-7/16" | x | 80" |
| | 20068 | 239-7/16" | x | 80" |
| 4P4T<br>XXXX<br>OXXX<br>XXXO | 10068 | 116-3/16" | x | 80" |
| | 12068 | 140-3/16" | x | 80" |
| | 16068 | 188-3/16" | x | 80" |
| | 20068 | 236-3/16" | x | 80" |
| 3P2T<br>OXX<br>XXO<br>OXO | 7668 | 91-5/16" | x | 80" |
| | 9068 | 109-5/16" | x | 80" |
| | 12068 | 145-5/16" | x | 80" |
| | 15068 | 181-5/16" | x | 80" |
| 5P3T<br>XXX-XX, XX-XXX<br>OX-XXO, OXX-XO | 15068 | 177-1/2" | x | 80" |
| | 20068 | 237-1/2" | x | 80" |
| | 25068 | 297-1/2" | x | 80" |
| 6P3T<br>OXX-XXO<br>XXX-XXX | 15068 | 175-5/8" | x | 80" |
| | 18068 | 211-5/8" | x | 80" |
| | 24068 | 283-5/8" | x | 80" |
| | 30068 | 355-5/8" | x | 80" |
| 8P4T<br>OXXX-XXXO<br>XXXX-XXXX | 20068 | 231-7/8" | x | 80" |
| | 24068 | 279-7/8" | x | 80" |
| | 32068 | 375-7/8" | x | 80" |
| | 40068 | 471-7/8" | x | 80" |

* 6/8 heights shown
** For XOX 3P2T see 3P3T sizing

| POCKET CONFIGURATION | SIZE CODE | OVERALL SIZE WIDTH X HEIGHT* | | |
|---|---|---|---|---|
| 1P2T<br>1 POCKET | 3068 | 35-1/4" | x | 80" |
| | 4068 | 47-1/4" | x | 80" |
| | 5068 | 59-1/4" | x | 80" |
| 2P2T<br>1 POCKET | 4068 | 45-3/8" | x | 80" |
| | 5068 | 57-3/8" | x | 80" |
| | 6068 | 69-3/8" | x | 80" |
| | 8068 | 93-3/8" | x | 80" |
| | 10068 | 117-3/8" | x | 80" |
| 3P3T<br>1 POCKET | 7668 | 85-7/16" | x | 80" |
| | 9068 | 103-7/16" | x | 80" |
| | 12068 | 139-7/16" | x | 80" |
| | 15068 | 175-7/16" | x | 80" |
| 4P4T<br>1 POCKET | 10068 | 113-9/16" | x | 80 |
| | 12068 | 137-9/16" | x | 80" |
| | 16068 | 185-9/16" | x | 80" |
| | 20068 | 233-9/16" | x | 80" |
| 2P2T<br>2 POCKET | 4068 | 45-15/16" | x | 80" |
| | 5068 | 57-15/16" | x | 80" |
| | 6068 | 69-15/16" | x | 80" |
| | 8068 | 93-15/16" | x | 80" |
| | 10068 | 117-15/16" | x | 80" |
| 4P2T<br>2 POCKET | 10068 | 114-1/8" | x | 80" |
| | 12068 | 138-1/8" | x | 80" |
| | 16068 | 186-1/8" | x | 80" |
| | 20068 | 234-1/8" | x | 80" |
| 6P3T<br>2 POCKET | 15068 | 170-3/8" | x | 80" |
| | 18068 | 206-3/8" | x | 80" |
| | 24068 | 278-3/8" | x | 80" |
| | 30068 | 350-3/8" | x | 80" |
| 8P4T<br>2 POCKET | 20068 | 226-9/16" | x | 80" |
| | 24068 | 274-9/16" | x | 80" |
| | 32068 | 370-9/16" | x | 80" |
| | 40068 | 466-9/16" | x | 80" |

* 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 View Sliding Glass Door

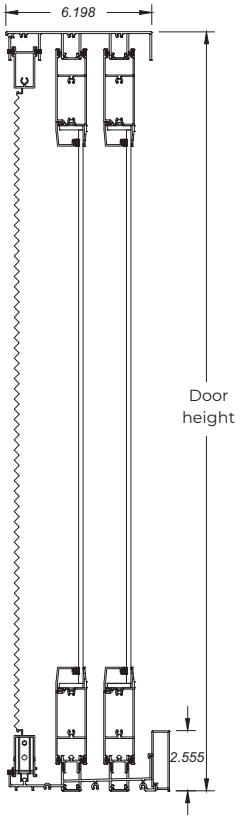
## SGD770NS

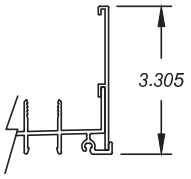
### FEATURES

- 2, 3 or 4 tracks
- 7/16” laminated glass
- 2-1/2" clear anodized sill riser
- Multi-panel by-pass, and pocket configurations
- Dual point mortise lock
- Stainless steel tandem roller assembly

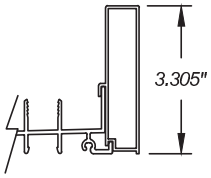
### OPTIONS

- Nominal and custom sizes
- Configurations up to 8 panels
- 90° corner door configurations with secondary lock
- Inside or outside corner configurations
- Insulated glass
- 1-1/2" add on nail fin
- Raised, Modern, Beveled, Recessed Pull handles
- Standard or box screen
- BetterVue screen mesh




Narrow riser




Box riser

### NOMINAL SILL RISER HEIGHTS

| | |
|---|---|
| Flush | 1.500" |
| Low | 2.500" |
| Medium | 3.250" |
| High | 4.000" |

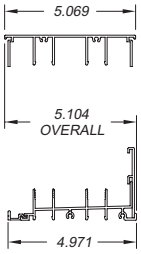
### PERFORMANCE

WinGuard® Aluminum

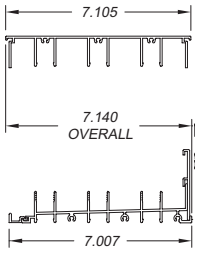
- Panel sizes up to 6'0" x 10'0" or 5'0" x 12'0" 60 sq. ft.
- Design pressures up to +90/-90



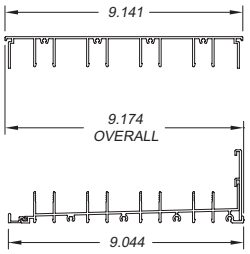

WinGuard® Aluminum glazing shown.




2-track frame depth
for box riser add .590"




3-track frame depth
for box riser add .590"




4-track frame depth
for box riser add .590"

# Preferred View Sliding Glass Door

## SGD770NS

### NOMINAL DOOR SIZES

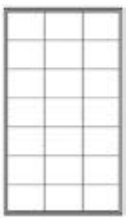
| BY-PASS CONFIGURATION | SIZE CODE | OVERALL SIZE WIDTH X HEIGHT* | | |
|---|---|---|---|---|
| 2P2T<br>XO<br>OX<br>XX | 4068 | 48" | x | 80" |
| | 5068 | 60" | x | 80" |
| | 6068 | 72" | x | 80" |
| | 8068 | 96" | x | 80" |
| | 10068 | 120" | x | 80" |
| 3P3T<br>XXX<br>XXO<br>OXX | 7668 | 87-3/16" | x | 80" |
| | 9068 | 105-3/16" | x | 80" |
| | 12068 | 141-3/16" | x | 80" |
| | 15068 | 177-3/16" | x | 80" |
| 4P2T<br>OXXO<br>XXXX | 10068 | 119" | x | 80" |
| | 12068 | 143" | x | 80" |
| | 16068 | 191" | x | 80" |
| | 20068 | 239" | x | 80" |
| 4P4T<br>XXXX<br>OXXX<br>XXXO | 10068 | 114-3/8" | x | 80" |
| | 12068 | 138-3/8" | x | 80" |
| | 16068 | 186-3/8" | x | 80" |
| | 20068 | 234-3/8" | x | 80" |
| 3P2T**<br>OXO, XXO, OXX | 7668 | 91-13/16" | x | 80" |
| | 9068 | 109-13/16" | x | 80" |
| | 12068 | 145-13/16" | x | 80" |
| | 15068 | 181-13/16" | x | 80" |
| 5P3T<br>XXX-XX, XX-XXX<br>OX-XXO, OXX-XO | 15068 | 176-3/16" | x | 80" |
| | 20068 | 236-3/16" | x | 80" |
| | 25068 | 296-3/16" | x | 80" |
| 6P3T<br>OXX-XXO<br>XXX-XXX | 15068 | 173-3/8" | x | 80" |
| | 18068 | 209-3/8" | x | 80" |
| | 24068 | 281-3/8" | x | 80" |
| | 30068 | 353-3/8" | x | 80" |
| 8P4T<br>OXXX-XXXO<br>XXXX-XXXX | 20068 | 227-11/16" | x | 80" |
| | 24068 | 275-11/16" | x | 80" |
| | 32068 | 371-11/16" | x | 80" |
| | 40068 | 467-11/16" | x | 80" |

* 6/8 heights shown
** For XOX 3P2T see 3P3T sizing

| POCKET CONFIGURATION | SIZE CODE | OVERALL SIZE WIDTH X HEIGHT* | | |
|---|---|---|---|---|
| 1P2T<br>1 POCKET | 3068 | 35-1/4" | x | 80" |
| | 4068 | 47-1/4" | x | 80" |
| | 5068 | 59-1/4" | x | 80" |
| 2P2T<br>1 POCKET | 4068 | 45-3/8" | x | 80" |
| | 5068 | 57-3/8" | x | 80" |
| | 6068 | 69-3/8" | x | 80" |
| | 8068 | 93-3/8" | x | 80" |
| | 10068 | 117-3/8" | x | 80" |
| 3P3T<br>1 POCKET | 7668 | 85-7/16" | x | 80" |
| | 9068 | 103-7/16" | x | 80" |
| | 12068 | 139-7/16" | x | 80" |
| | 15068 | 175-7/16" | x | 80" |
| 4P4T<br>1 POCKET | 10068 | 113-9/16" | x | 80 |
| | 12068 | 137-9/16" | x | 80" |
| | 16068 | 185-9/16" | x | 80" |
| | 20068 | 233-9/16" | x | 80" |
| 2P2T<br>2 POCKET | 4068 | 45-15/16" | x | 80" |
| | 5068 | 57-15/16" | x | 80" |
| | 6068 | 69-15/16" | x | 80" |
| | 8068 | 93-15/16" | x | 80" |
| | 10068 | 117-15/16" | x | 80" |
| 4P2T<br>2 POCKET | 10068 | 114-1/8" | x | 80" |
| | 12068 | 138-1/8" | x | 80" |
| | 16068 | 186-1/8" | x | 80" |
| | 20068 | 234-1/8" | x | 80" |
| 6P3T<br>2 POCKET | 15068 | 170-3/8" | x | 80" |
| | 18068 | 206-3/8" | x | 80" |
| | 24068 | 278-3/8" | x | 80" |
| | 30068 | 350-3/8" | x | 80" |
| 8P4T<br>2 POCKET | 20068 | 226-9/16" | x | 80" |
| | 24068 | 274-9/16" | x | 80" |
| | 32068 | 370-9/16" | x | 80" |
| | 40068 | 466-9/16" | x | 80" |

* 6/8 heights shown

### STANDARD LITES FOR COLONIAL GRIDS



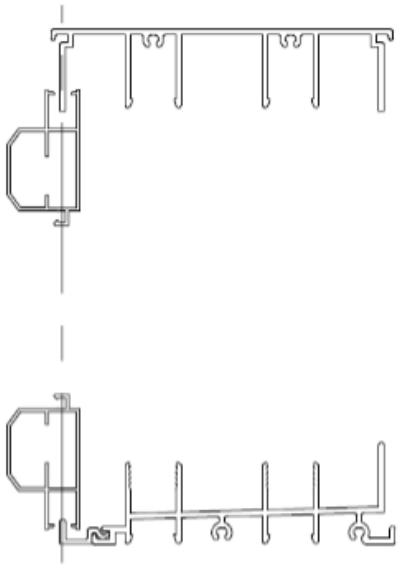
| STANDARD LITES FOR COLONIAL GRIDS | | |
|---|---|---|
| Nominal Panel Width | Up to 2'6" | =2 lites across (1V) per panel |
| Nominal Panel Width | 3'0" & 4'0" | =3 lites across (2V) per panel |
| Nominal Panel Width | 5'0" | =4 lites across (3V) per panel |
| Nominal Panel Height | Up to 6'8" | =5 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 View Sliding Glass Door

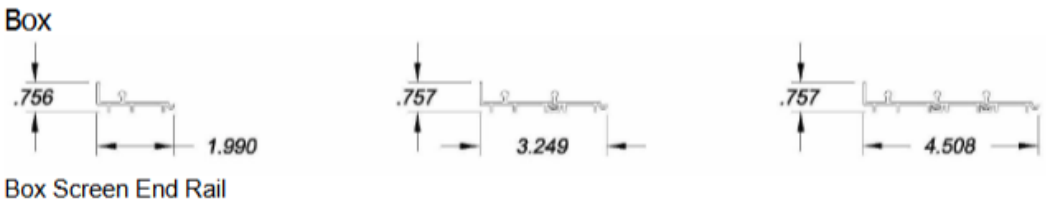
## SGD770NS

### SCREENS

- Standard screen rides on the exterior edge of the main frame
  - Rides on the existing head and jamb extrusion
  - Finishing rail doubles as the standard screen rail



- Box screen tracks are add-on pieces
  - Minimum box screen track is 1 and maximum is 3
  - Box screen tracks are individual pieces and attached with a tongue and groove design
  - The 2-track is the only track that has the option for integrated box screen

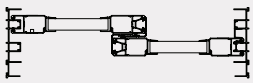
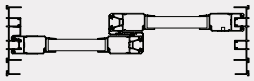
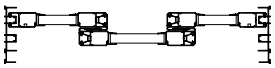
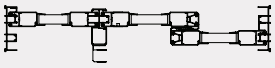
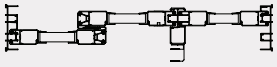
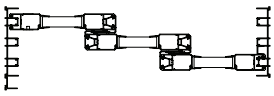
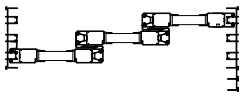
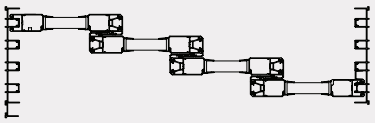
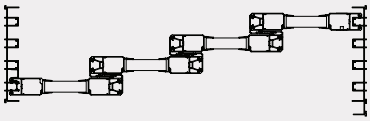
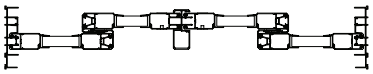
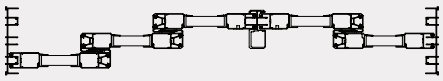
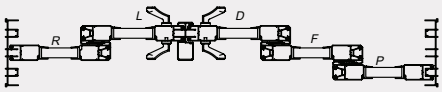


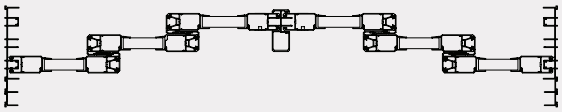
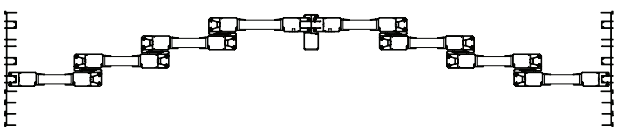

Box Screen End Rail

Note: Screens are limited based on configurations.

# Preferred and Preferred View Sliding Glass Door

## SGD670/770 & SGD770NS

| TYPE | STANDARD STACK | REVERSE STACK |
|---|---|---|
| 2P2T<br>XX / XO / OX |  |  |
| 3P2T<br>XOX |  | Same as Standard Stack |
| 3P2T<br>OXO |  |  |
| 3P3T<br>XXX / XX0 / OXX |  |  |
| 4P4T<br>XXXX / XXXO / OXXX |  |  |
| 4P2T<br>XXXX / OXXO |  | Same as Standard Stack |
| 5P3T<br>OXX-XO / OX-XXO<br>XXX-XX / XX-XXX |  |  |

| TYPE | STANDARD STACK |
|---|---|
| 6P3T<br>OXX-XXO<br>XXX-XXX |  |
| 8P4T<br>OXXX-XXXO<br>XXXX-XXXX |  |

# French Door

## FD160

### FEATURES

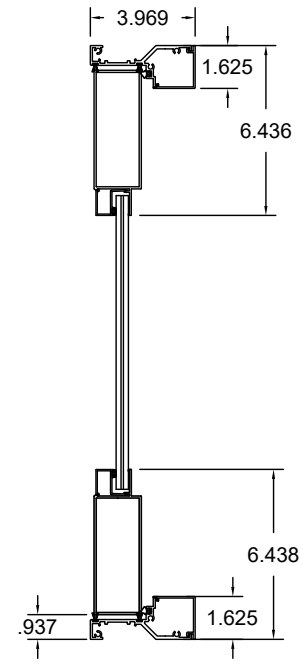
- 7/16" laminated glass
- Single or double door
- Outswing
- Patented 3 -point locking system
- 4" frame depth
- 2-1/8" bore with 2-3/8" setback
- Handle and deadbolt bore 5-1/2" on-center

### OPTIONS

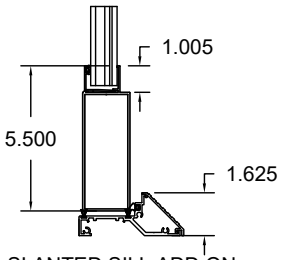
- Nominal and custom sizes
- ADA threshold
- Laminated insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Self-mating and free standing sidelites

### PERFORMANCE

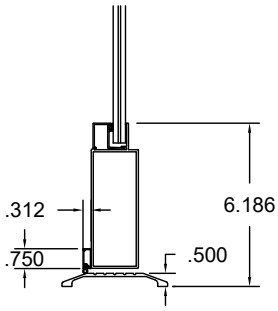
- Single door sizes up to 42" x 96"
- Double door sizes up to 81-1/2" x 96"
- Sidelite sizes up to 42" x 96"
- Design pressures up to +80/-80



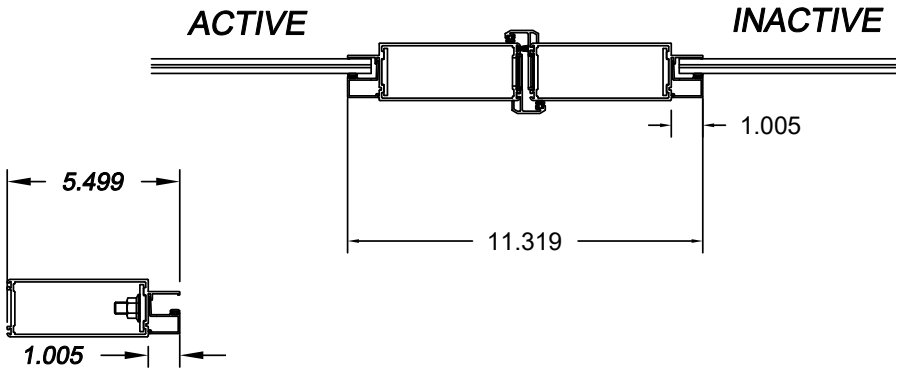
Door Sill - SQUARE ADD ON

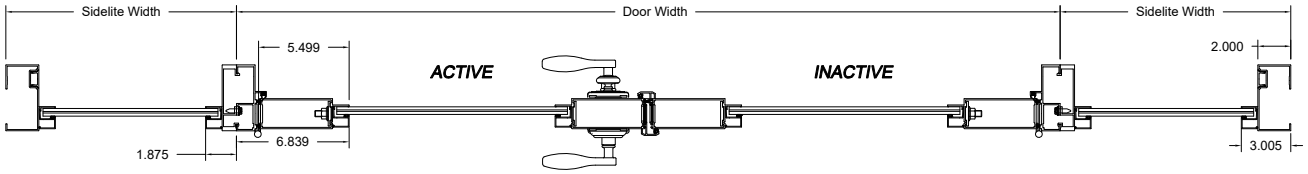


SLANTED SILL ADD ON



SADDLE THRESHOLD



# French Door

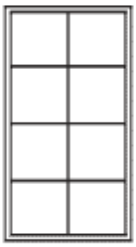
## FD160

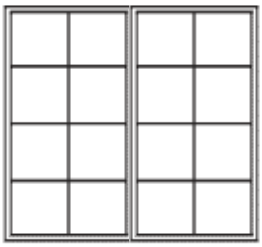
### NOMINAL DOOR SIZES

| BY-PASS CONFIGURATION | SIZE CODE | OVERALL SIZE WIDTH X HEIGHT* | | |
|---|---|---|---|---|
| O | 1068 | 12" | x | 80" |
| | 1070 | 12" | x | 84" |
| | 1080 | 12" | x | 96" |
| | 1668 | 18" | x | 80" |
| | 1670 | 18" | x | 84" |
| | 1680 | 18" | x | 96" |
| | 2068 | 24" | x | 80" |
| | 2070 | 24" | x | 84" |
| | 2080 | 24" | x | 96" |
| | 2668 | 30" | x | 80" |
| | 2670 | 30" | x | 84" |
| | 2680 | 30" | x | 96" |
| | 2968 | 33" | x | 80" |
| | 2970 | 33" | x | 84" |
| | 2980 | 33" | x | 96" |
| | 3068 | 36" | x | 80" |
| | 3070 | 36" | x | 84" |
| | 3080 | 36" | x | 96" |
| X | 2668 | 31.25" | x | 80" |
| | 2670 | 31.25" | x | 84" |
| | 2680 | 31.25" | x | 96" |
| | 2868 | 33.25" | x | 80" |
| | 2870 | 33.25" | x | 84" |
| | 2880 | 33.25" | x | 96" |
| | 3068 | 37.25" | x | 80" |
| | 3070 | 37.25" | x | 84" |
| | 3080 | 37.25" | x | 96" |
| XX | 4068 | 48" | x | 80" |
| | 4070 | 48" | x | 84" |
| | 4080 | 48" | x | 96" |
| | 5068 | 60" | x | 80" |
| | 5070 | 60" | x | 84" |
| | 5080 | 60" | x | 96" |
| | 5468 | 64" | x | 80" |
| | 5470 | 64" | x | 84" |
| | 5480 | 64" | x | 96" |
| | 6068 | 72" | x | 80" |
| | 6070 | 72" | x | 84" |
| | 6080 | 72" | x | 96" |

### STANDARD LITES FOR COLONIAL GRIDS

| STANDARD LITES FOR COLONIAL GRIDS | | |
|---|---|---|
| Single Door Widths | Up to 30" | =1 lite across (0V) per panel |
| | 30.001" – 38" | =2 lites across (1V) per panel |
| | 38.001" – 42" | =3 lites across (2V) per panel |
| Double Door Widths | Up to 57" | =1 lite across (0V) per panel |
| | 57.001" – 73" | =2 lites across (1V) per panel |
| | 73.001" – 81.500" | =3 lites across (2V) per panel |
| Door Heights | Up to 73" | =5 lites down (4H) per panel |
| | Up to 73.001" to 83" | =6 lites down (5H) per panel |
| | Up to 83.001" to 93" | =7 lites down (6H) per panel |
| | Up to 93.001" to 96" | =8 lites down (7H) per panel |



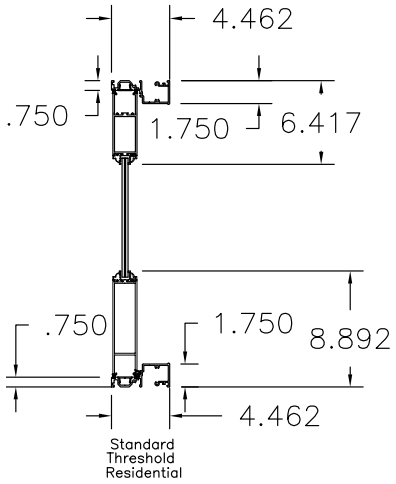


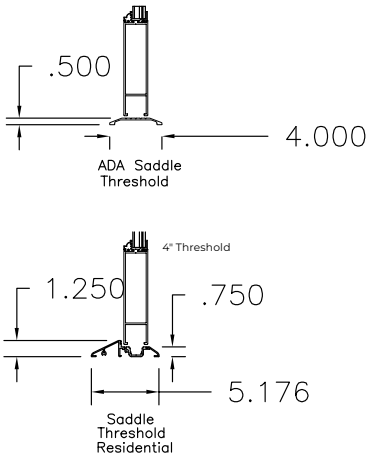
# French Door

## FD450

### FEATURES

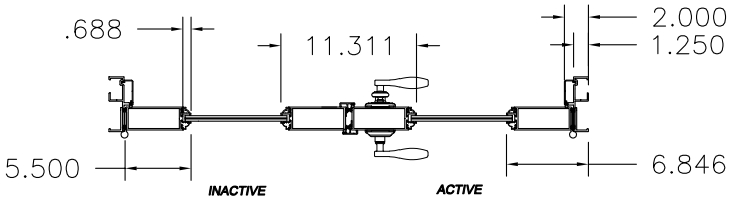
- 7/16" laminated glass
- Single or double door
- Outswing
- Patented 3-point locking system
- Integral transoms
- 4-1/2 frame depth



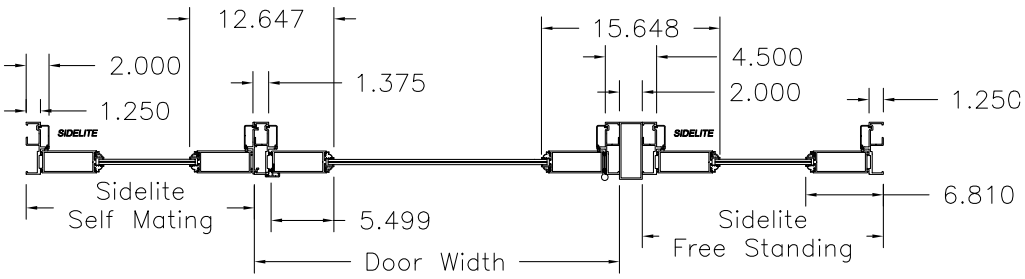

### OPTIONS

- Nominal and custom sizes
- Laminated insulated glass
- EnergyShield & EnergyShield Max Low-E
- Argon gas
- Self-mating and free standing sidelites
- Narrow sidelite available (dependant on sidelite size)
- Levers, Handle sets, Ladder Pulls, Electronic Hardware Options
- Inswing
- Decorative Louvers: 20" or 28"
- ADA threshold, residential saddle theshold
- Commercial hardware
- 4-5/8" True divided lite for aluminum panel option




### PERFORMANCE

- Single door sizes up to 44-9/16" x 102-3/4" or 38-9/16" x 120-3/4"
- Double door sizes up to 86-1/2" x 102-3/4" or 74-1/2" x 120-3/4"
- Sidelite sizes up to 44-9/16" x 102-3/4" or 38-9/16" x 120-3/4"
- Design pressures up to +100/-110



# French Door

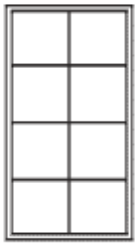
## FD450

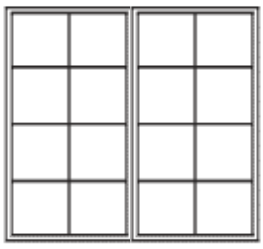
### NOMINAL SIZES

| BY-PASS CONFIGURATION | SIZE CODE | OVERALL SIZE WIDTH X HEIGHT* | | |
|---|---|---|---|---|
| X | 2068 | 26.5625" | x | 80.750" |
| | 2668 | 32.5625" | x | 80.750" |
| | 2868 | 34.5625" | x | 80.750" |
| | 3068 | 38.5625" | x | 80.750" |
| | 3668 | 44.5625" | x | 80.750" |
| XX | 4068 | 50.500" | x | 80.750" |
| | 5068 | 62.500" | x | 80.750" |
| | 5468 | 66.500" | x | 80.750" |
| | 6068 | 74.500" | x | 80.750" |
| | 7068 | 86.500 | x | 80.750" |
| Side Lite Size (Free Standing Shown) | 1068 | 14.3750" | x | 80.750" |
| | 1668 | 20.3750" | x | 80.750" |
| | 2068 | 26.3750" | x | 80.750" |
| | 2668 | 32.3750" | x | 80.750" |
| | 2868 | 34.3750" | x | 80.750" |
| | 3068 | 38.3750" | x | 80.750" |

Additional heights: (For Doors and Side Lites)
7/0= 84.750
8/0= 96.750
9/0= 108.750
10/0= 120.750

### STANDARD LITES FOR COLONIAL GRIDS





| STANDARD LITES FOR COLONIAL GRIDS | | |
|---|---|---|
| Single Door Widths | Up to 30" | =1 lite across (0V) per panel |
| | 30.001" – 38" | =2 lites across (1V) per panel |
| | 38.001" – 44.562" | =3 lites across (2V) per panel |
| Double Door Widths | Up to 57" | =1 lite across (0V) per panel |
| | 57.001" – 73" | =2 lites across (1V) per panel |
| | 73.001" – 86.500" | =3 lites across (2V) per panel |
| Door Heights | Up to 56" | =3 lites down (2H) per panel |
| | Up to 56.001" to 66" | =4 lites down (3H) per panel |
| | Up to 66.001" to 76" | =5 lites down (4H) per panel |
| | Up to 76.001" to 86" | =6 lites down (5H) per panel |
| | Up to 86.001" to 96" | =7 lites down (6H) per panel |
| | Up to 96.001" to 106" | =8 lites down (7H) per panel |
| | Up to 106.001" to 116" | =9 lites down (8H) per panel |
| | Up to 116.001" to 120.750" | =10 lites down (9H) per panel |

# Min/Max Size Charts

## SH7700A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| O/X EQUAL | 14-1/4" x 24-3/4" | 53-1/8" x 84" |
| PROVIEW/ORIEL | 14-1/4" x 38-3/8" | 53-1/8" x 84" |
| CUSTOM | 14-1/4" x 38-3/8" | 53-1/8" x 84" |

## SH7600A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| O/X EQUAL | 13-1/2" x 24-3/4" | 53-1/8" x 84" |
| PROVIEW/ORIEL | 14-1/4" x 38-3/8" | 53-1/8" x 84" |
| CUSTOM | 14-1/4" x 38-3/8" | 53-1/8" x 84" |

## HR7710A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| XO/OX EQUAL | 19-3/4" x 18" or<br>27-1/4" x 14-5/8" | 76" x 76" |
| XOX 1/4-1/2-1/4 | 42" x 14-5/8" | 120" x 63" |
| XOX 1/3-1/3-1/3 | 35-1/4" x 16-7/8" or<br>41-5/8" x 14-5/8" | 113-5/8" x 63" |

## HR7610A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| XO/OX EQUAL | 19-3/4" x 14-5/8" | 76" x 76" |
| XOX 1/4-1/2-1/4 | 42" x 14-5/8" | 120" x 63" |
| XOX 1/3-1/3-1/3 | 35-1/4" x 14-5/8" or<br>42" x 14-5/8" | 113-5/8" x 63" |

## CA740

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| X | 18-1/2" x 17" | 37" x 76" or 33-1/2" x 84" |

## CA640

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| X | 18-1/2" x 17" | 37" x 76" or 33-1/2" x 84" |

## AW740A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| X | 22-1/2" x 17" | 60" x 39" or 27-7/8" x 84" |

## AW640

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| X | 22-1/2" x 17" | 60" x 39" or 27-7/8" x 84" |

# Min/Max Size Charts

## PW740

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| O | 18" x 18" | Up to 32 sq. ft. |

## PW640

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| O | 18" x 18" | Up to 31.5 sq. ft. |

## PW/AR7720A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| O | 14-1/2" x 14-1/2" or 10" x 17-3/4" | Up to 42 sq. ft. |

## PW/AR7620A

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| O | 10" x 17-3/4" | Up to 51.21 sq. ft. |

## PW/AR7720

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|
| Picture Window | 14-1/2" x 14-1/2" |
| Half Circle | 19-1/8" x 9-9/16" |
| Quarter Circle | 14-1/2" x 14-5/8" |
| Eyebrow | 18-1/2" x 18-1/2" |
| Half Eyebrow | 14-3/4" x 14-3/4" |
| Arch | 19-1/8" x 13-9/16" |
| Half Arch | 19-1/8" x 13-9/16" |
| Trapezoid | 14-1/2" x 14-1/2" |
| 5 sided Trapezoid | 14-1/2" x 14-1/2" |
| Elliptical | 36" x 12" |
| Half Elliptical | 18" x 12" |
| Gothic | 19-1/8" x 19-1/8" |
| Gothic with extended leg | 19-1/8" x 15" |

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|
| Triangle- Left/Right | 14-1/2" x 14-1/2" |
| Triangle- Equilateral | 14-1/2" x 14-1/2" |
| Triangle- Isosceles | 16-1/2" x 16-1/2" |
| Triangle- Scalene | 16-1/2" x 16-1/2" |
| Peak Pentagon | 14-1/2" x 14-1/2" |
| Hot Dog | 19-1/8" x 9-9/16" |
| Half Hot Dog | 19-9/16" x 9-9/16" |
| Oval | 24" x 36" |
| Full circle | 24" x 24" |
| Octagon | 18" x 18" |
| Octagon Unequal | 19-9/16" x 18" |
| Hexagon | 18" x 18" |
| Fan | 19-1/8" x 7-1/2" |
| Half Fan | 19-1/8" x 11" |

# Min/Max Size Charts

## SGD670

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| By-Pass or Pocket and 90° or 135° Corners | 43" x 30" | 4'0" x 10'0" panel or 6'0" x 8'0" |

## FD160

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| X | 20" x 72" | 38-3/4" x 96" |
| XX | 36" x 72" | 81-1/2" x 96" |
| O | 10.5" x 72" | 42" x 96" |

## FD450

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| X | 22" x 54" | 44-9/16" x 102-3/4" or 38-9/16" x 120-3/4" |
| XX | 36" x 54" | 86-1/2" x 102-3/4" or 74-1/2" x 120-3/4" |
| O | 12" x 54" | 44-9/16" x 102-3/4" or 38-9/16" x 120-3/4" |
| XT | 22" x 65-1/4" | 44-9/16" x 144" |

## SGD770

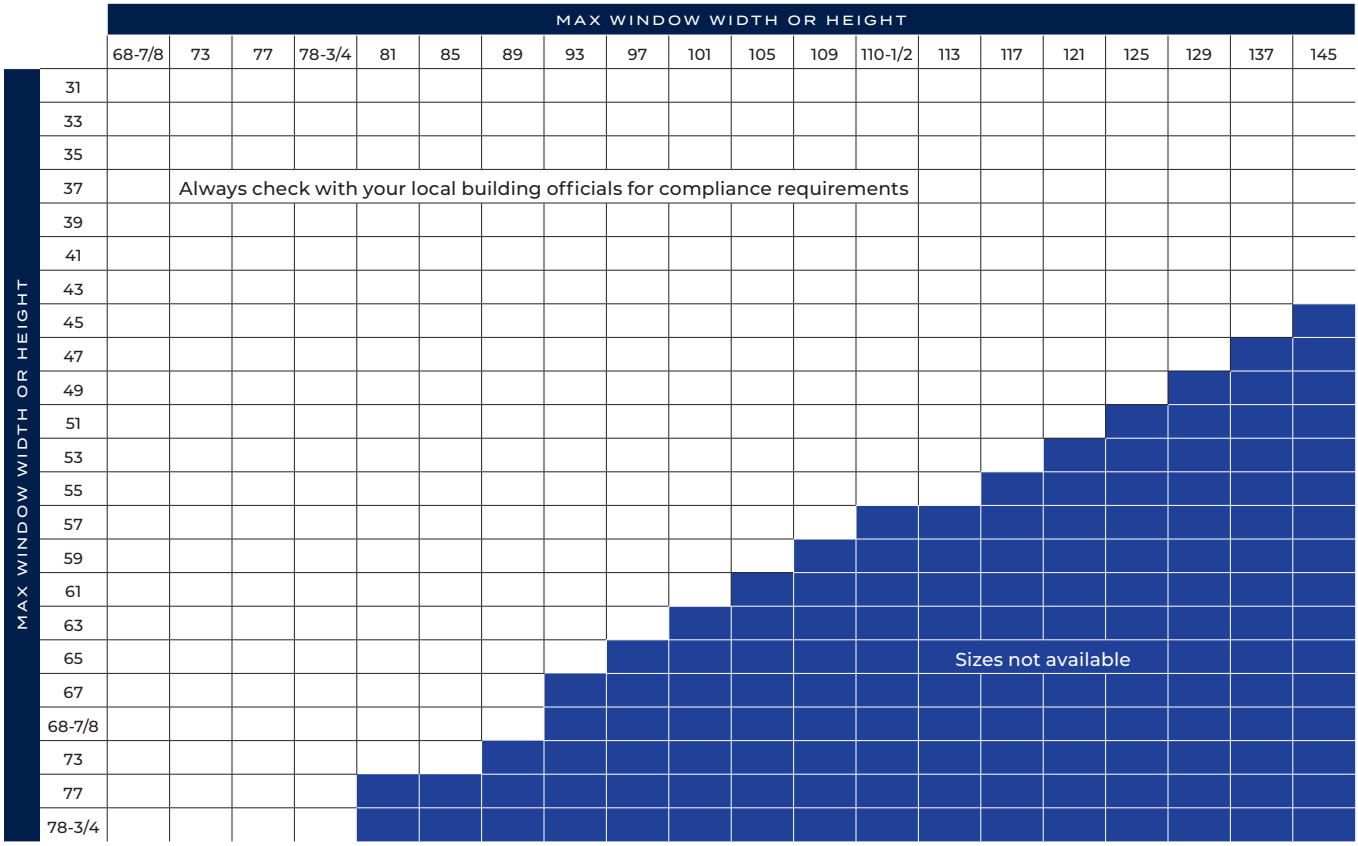
| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| By-Pass or Pocket and 90° or 135° Corners | Door min is 43" x 78"<br>Window unit min is 43" x 30" | 5'0" x 8'0" panel or<br>4'0" x 10'0" panel |

## SGD770NS

| CONFIGURATION | MINIMUM SIZE (ACTUAL DLO FRAME SIZE) | MAXIMUM SIZE (ACTUAL DLO FRAME SIZE) |
|---|---|---|
| By-Pass or Pocket and 90° Corners | Door min is 49-1/8"x78"<br>Window min is 49-1/8"x30" | 5'0" x 8'0" panel or<br>6'0" x 10'0" panel or 60 sq. ft. |

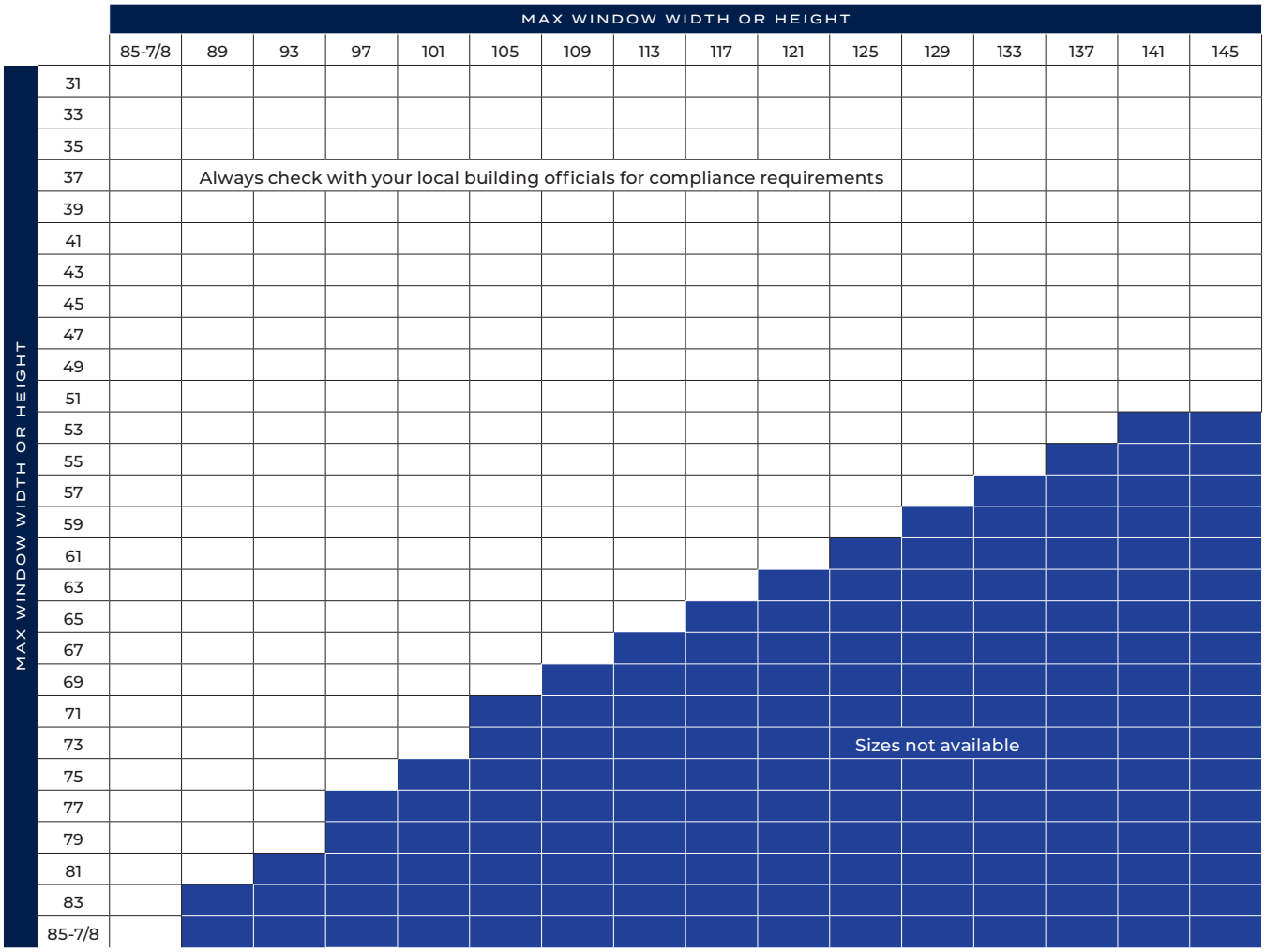
# Min/Max Size Charts

## PW/AR7720




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

## PW/AR7620A




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

# Notes

# Notes

ALUMINUM IMPACT & NON- IMPACT TECHNICAL GUIDE

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