

# SLIDING GLASS DOOR SYSTEMS



## Effortlessly expand your living space to the outdoors

Sliding Glass Door Systems allow for expansive views and create easy access to the outdoors or transitions between two interior spaces. Motorization options, pocketing possibilities, countless configurations, and gigantic panel sizes make our Sliding Glass Doors a flexible design element that complements any space. For completely unobstructed views, pockets can be designed into the system, that allow the doors to be tucked away within the wall cavity while fully opened. Pet and insect screen systems can be integrated into the design to keep insects where they belong — outside!

## FEATURES

### PANELS

- Motorized panels and screens possible with wireless remote, keypad, motion sensor, or infrared sensor controls available
- LEED friendly system including recycled content
- Designed and manufactured in the U.S.A.

### PERFORMANCE:

- Weather-tight jamb interlock provides outstanding air and water performance

### GLAZING:

- Designed to accommodate almost any glazing infill including glass and solid-panel infills from 1/4" to 1 3/8"

### HARDWARE

- Custom manufactured operable hardware
- Multiple hardware styles and finishes
- Multiple sill designs, including high performance sill
- Polymer and stainless steel rollers with precision bearings
  - 3" rollers for minimum panel width of 32"
  - 1 13/16" rollers for minimum panel width of 22"
- Smaller panels may be available upon engineering approval

## OPTIONS

### FINISHES:

- Standard AAMA 2603 paint finishes: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
- AAMA 611 Class I anodized finishes: Clear, Dark Bronze
- Standard AAMA 2605 powder coat finishes: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
- Premium AAMA powder coat finishes
- Custom finishes:
  - Fluoropolymer (50% or 70%): AAMA 2605
  - Faux wood (Decoral)

### OPTIONS:

- Matching fixed sidelites
- Transoms possible on a project-by-project basis
- True-radius and segmented-radius options available
- Screen options: folding, sliding, retractable
- Mullions, decorative muntins, simulated divided lites (SDLs), interior & exterior grids
- No post 90° corners possible
- Pocketing options: single or double sided
- Factory installed sill drain tubes, if required

HARDWARE

Handles

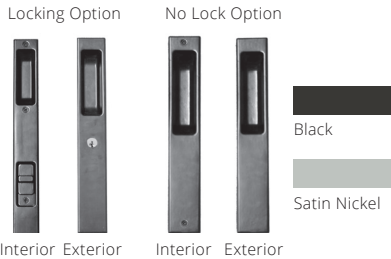
STANDARD

Ergonomic



STANDARD RECESSED

Recessed Flush Lock



PULLS

GeoMetek



BandWidth



POCKET DOOR

Edge Pull



COASTAL RECESSED

Recessed Thumb Turn



Rollers



**Please Note:** All hardware is subject to vendor availability. Custom finishes may be available upon request at additional lead time and/or cost. Solar Innovations® reserves the right to discontinue any hardware option at any time. Please be sure to visit our website for additional product information: [www.solarinnovations.com](http://www.solarinnovations.com)

FINISH OPTIONS

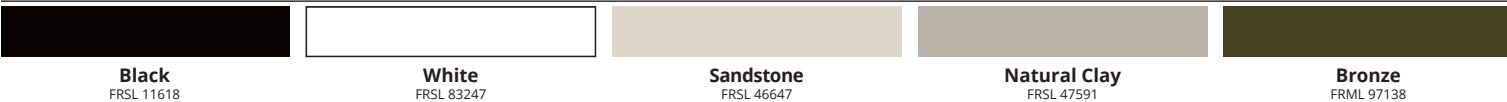
**Paint** AAMA 2603 (5 year warranty). Finishes available while in stock.



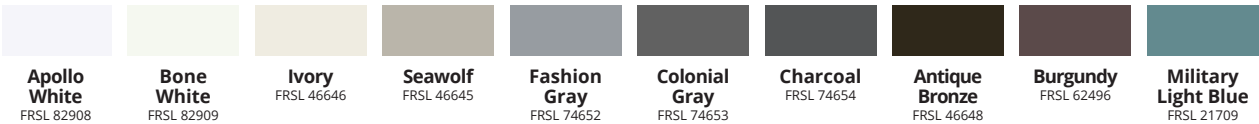
**Anodized** Additional cost



**Powder Coat Solids** STANDARD - AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.\*



**Powder Coat Solids** PREMIUM - AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.\*

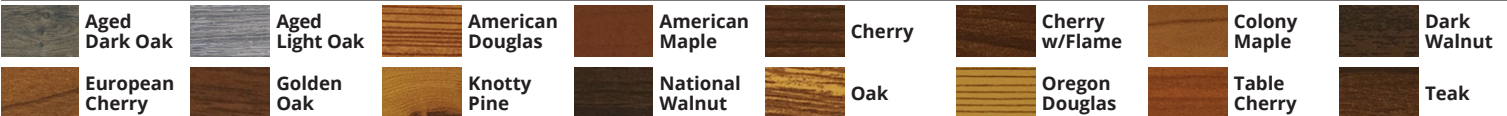


**Metal Clad** STANDARD\*



Visit <https://www.ifsc coatings.com/content/assets/Uploads/brochures/IFS-Architectural-Digital-Color-Card.pdf> for additional metallic and anodic finishes.

Decoral Finishes (Powder Coat)\*



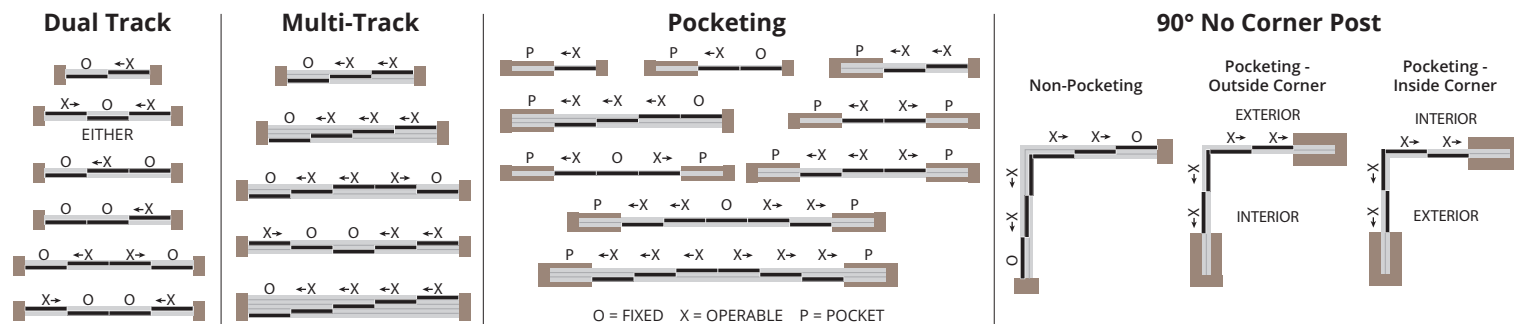
\*Lead times subject to availability.

**Note:** Depending upon color selection, additional charges and increased lead times may apply. Extended warranties and service plans are available for an additional charge. Examples are shown as accurate as photography and printing processes allow. Final finish selection should be made from a physical sample; contact Solar Innovations® for samples. Product and finish options are subject to vendor availability. Solar Innovations® reserves the right to discontinue any option at any time without notice. Additional options, including custom color match, are available; contact Solar Innovations® for details.

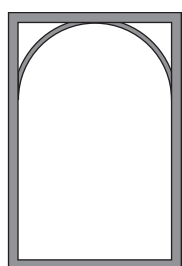


## CONFIGURATION EXAMPLES

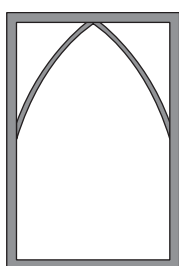
Additional configurations are available.



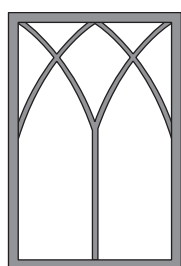
## GRID OPTIONS



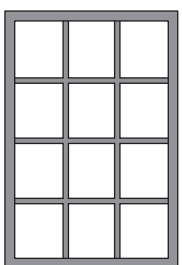
Arched Grid



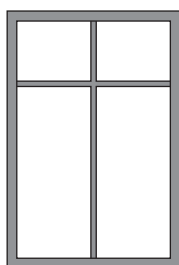
Gothic Grid



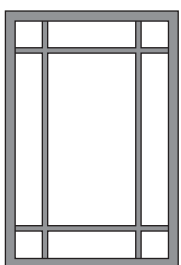
Double Gothic Grid



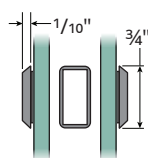
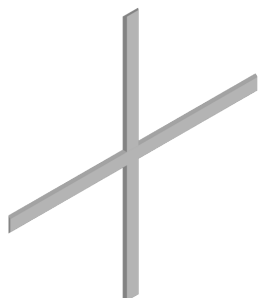
Traditional Grid



Cross Grid



English Grid



Thin Low  
Profile  
with SDL



To find out more about the features and options of our Sliding Glass Doors, visit our website at [solarinnovations.com/our-products/aluminum-doors/sliding-glass-doors/](https://solarinnovations.com/our-products/aluminum-doors/sliding-glass-doors/) or contact one of our sales designers at 800 618 0669.





## GLASS SPECIFICATIONS

|   | Overall Unit Thickness | U-Value | R-Value | Solar Heat Gain Coefficient | Visible Light Transmission | Reflectance Out | Reflectance In | UV Transmittance |
|---|------------------------|---------|---------|-----------------------------|----------------------------|-----------------|----------------|------------------|
| <b>MONOLITHIC</b>   |                        |         |         |                             |                            |                 |                |                  |
| Clear   | ¼"                     | 1.02    | 0.91    | 0.82                        | 88%                        | 8%              | 8%             | 62%              |
| <b>DOUBLE GLAZED Outside Lite/Inside Lite</b>             |                        |         |         |                             |                            |                 |                |                  |
| Clear/Clear   | 1"                     | 0.46    | 2.17    | 0.78                        | 82%                        | 15%             | 15%            | 58%              |
| 180/Clear   | 1"                     | 0.26    | 3.85    | 0.64                        | 79%                        | 15%             | 15%            | 29%              |
| 272/Clear   | 1"                     | 0.25    | 4.00    | 0.41                        | 72%                        | 11%             | 12%            | 16%              |
| 366/Clear   | 1"                     | 0.24    | 4.17    | 0.27                        | 65%                        | 11%             | 12%            | 5%               |
| 340/Clear   | 1"                     | 0.25    | 4.00    | 0.18                        | 39%                        | 11%             | 13%            | 2%               |
| 180/i89   | 1"                     | 0.21    | 4.76    | 0.62                        | 77%                        | 15%             | 14%            | 27%              |
| 272/i89   | 1"                     | 0.20    | 5.00    | 0.41                        | 70%                        | 11%             | 11%            | 16%              |
| 366/i89   | 1"                     | 0.20    | 5.00    | 0.27                        | 63%                        | 11%             | 11%            | 5%               |
| 340/i89   | 1"                     | 0.20    | 5.00    | 0.17                        | 38%                        | 11%             | 12%            | 2%               |
| Gray/Clear  | 1"                     | 0.45    | 2.22    | 0.60                        | 57%                        | 9%              | 13%            | 32%              |
| Gray/180  | 1"                     | 0.26    | 3.85    | 0.49                        | 53%                        | 9%              | 14%            | 17%              |
| Gray/272  | 1"                     | 0.25    | 4.00    | 0.38                        | 50%                        | 8%              | 9%             | 10%              |
| Bronze/Clear  | 1"                     | 0.45    | 2.22    | 0.62                        | 61%                        | 10%             | 13%            | 31%              |
| Bronze/180  | 1"                     | 0.26    | 3.85    | 0.61                        | 59%                        | 10%             | 14%            | 17%              |
| Bronze/272  | 1"                     | 0.25    | 4.00    | 0.39                        | 54%                        | 8%              | 10%            | 10%              |
| SolarBan 60/Clear   | 1"                     | 0.24    | -       | 0.39                        | 70%                        | 11%             | 12%            | 20%              |
| SolarBan 70/Clear   | 1"                     | 0.24    | -       | 0.27                        | 64%                        | 14%             | 13%            | 6%               |
| SolarBan 90/Clear   | 1"                     | 0.24    | -       | 0.23                        | 51%                        | 12%             | 19%            | 8%               |
| <b>TRIPLE GLAZED Outside Lite/Middle Lite/Inside Lite</b> |                        |         |         |                             |                            |                 |                |                  |
| 180/Clear/180   | 1½"                    | 0.15    | 6.67    | 0.56                        | 70%                        | 20%             | 20%            | 13%              |
| 272/Clear/180   | 1½"                    | 0.15    | 6.67    | 0.37                        | 63%                        | 15%             | 18%            | 8%               |
| 366/Clear/180   | 1½"                    | 0.15    | 6.67    | 0.25                        | 57%                        | 14%             | 18%            | 2%               |
| 340/Clear/180   | 1½"                    | 0.15    | 6.67    | 0.16                        | 34%                        | 13%             | 19%            | 1%               |



# G2 SLIDING GLASS DOORS



## G2 System

The G2 Multi-Track Sliding Glass Door System is ideal for any commercial or residential entryway. For exterior applications, the frame can incorporate thermal breaks, that greatly reduce the heat and cold transfer from the exterior to the interior. For ease of use, our system can be motorized and even be controlled by a smart phone.

## G2 Impact System

For coastal applications, our systems can be designed with high-performance sills, hurricane hook rails and/or laminated glazing that will protect your home in extreme conditions. Impact and Non-Impact sliding doors will utilize a non-thermal perimeter frame.

## G2 STC Rated System

The G2 STC-rated Multi-Track Sliding Glass Door System is ideal for any application that has Sound Transmission Class (STC) requirements. Though acoustic values are typically specific to the glazing selection, the construction of the frame can greatly influence the acoustical performance. The G2 STC-rated system combines enhanced acoustical performance, superior thermal performance, and outstanding functionality.

PLEASE NOTE: Any variation in configuration, sill, or size from tested standards will need to be tested to confirm STC rating.

| Florida Impact Performance Test #110-10818-2 |             |                 |               |                |                                  |  |
|--|-------------|-----------------|---------------|----------------|----------------------------------|--|
| Panel Size                                   | # of Panels | Design Pressure | Certification | Air at 1.57psf | Water                            | Glass Selection  |
| 60.5"W x 96"H                                | Unlimited   | ±65psf          | FL 16028.2    | 0.14 CFM/FT²   | 12.0psf* (Based on water column) | Monolithic 7/16" HS (3/16" over 3/16" .090 SGP Inner Layer) 1 1/16" IGU (3/16" Tempered over 7/16" Annealed Laminated (.090 SGP) |

\* Testing and performance results may vary depending upon sill, size, and hardware selections. Please be sure to visit our website or contact your Solar Innovations® representative for additional product information.

| G2 STC Rated System Acoustical Testing |                   |  |     |      |
|--|-------------------|--|-----|------|
| Test Report                            | Glazing Thickness | Glazing Makeup   | STC | OITC |
| F3159.01                               | 1"                | ¼" Tempered Exterior, ½" Air Space, ¼" Annealed Laminated Interior | 33  | 29   |

## Panels

- Minimum panel size: 22" wide; smaller panels may be available upon engineering approval
- Maximum panel size up to 6' x 10'; larger panel options may be available depending on application
- Motorized panels available

## Glazing

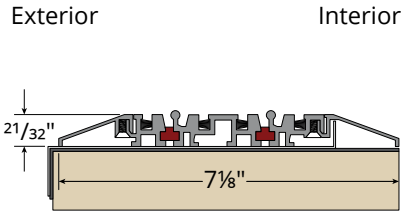
- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from ¼" to 1 1/16"

## Performance

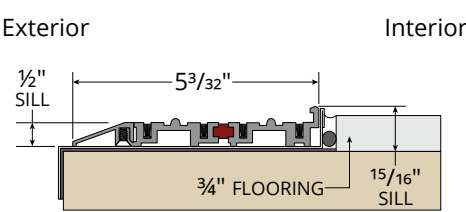
- Water performance up to 12psf, depending on sill choice, configuration, and water column
- Higher design pressure ratings available with engineering approval
- Test results available upon request

# Sill Options

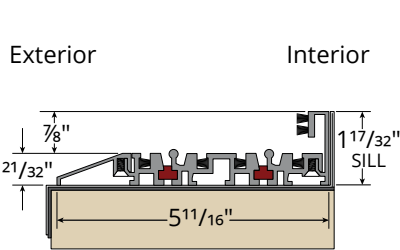
## THERMALLY IMPROVED



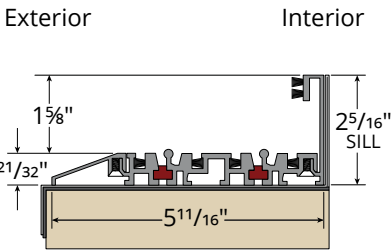
**G2 Sliding Thermal Sill — 5/8" Flat Sill With No Up Leg**  
Limited/no expected field water performance



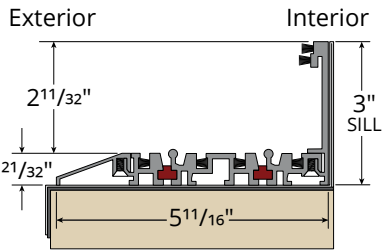
**G2 ADA Sill with Interior Flooring**  
1-1.5PSF expected field water performance  
ADA Compliant\*



**G2 Sliding Thermal Sill — 1 17/32" Up Leg**  
4.5PSF expected field water performance



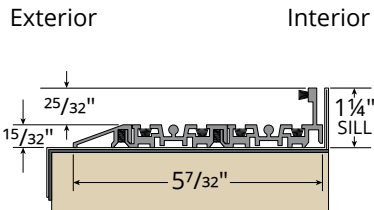
**G2 Sliding Thermal Sill — 2 5/16" Up Leg**  
8.4PSF expected field water performance



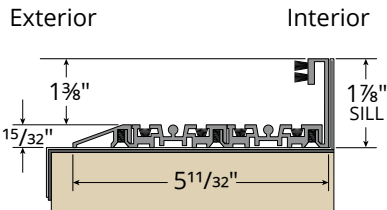
**G2 Sliding Thermal Sill — 3" Up Leg**  
12PSF expected field water performance

\* Custom order; subject to availability. Only available in Class 1 Clear Anodized finish.

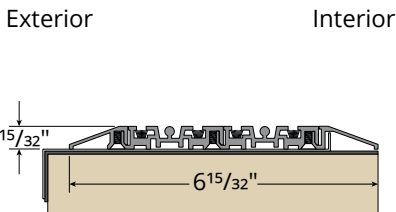
## NON-THERMAL



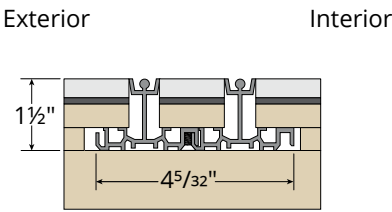
**G2 Sliding Non-Thermal Sill — 1 1/4" Integrated Up Leg**  
4.0PSF expected field water performance  
Hurricane certified



**G2 Sliding Non-Thermal Sill — 1 7/8" Up Leg**  
7.1PSF expected field water performance  
Hurricane certified



**G2 Sliding Non-Thermal Sill — 1/2" Flat Sill With No Up Leg**  
Limited/no expected field water performance  
ADA compliant



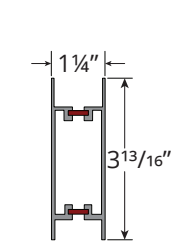
**G2 Sliding Non-Thermal Tile Sill**  
Limited/no expected field water performance  
Interior applications only  
ADA compliant

Please note: only standard sill and up leg options are shown. Other variations are available upon request.

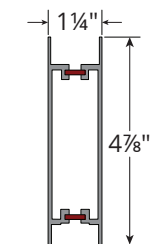


## Vertical & Horizontal Rail Options

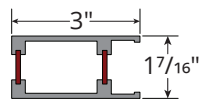
### THERMALLY IMPROVED



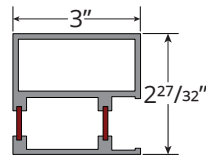
Medium  
Bottom Rail



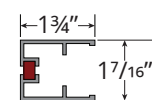
Large  
Bottom Rail



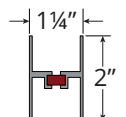
Handle  
Rail



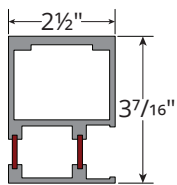
High Wind  
Handle Rail



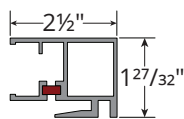
Flush  
Rail



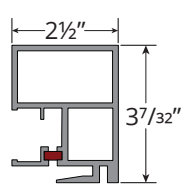
Thermally  
Improved  
Mullion\*



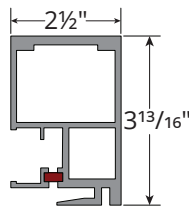
Hurricane  
Flush Rail



Hook  
Rail



High Wind  
Hook Rail



Hurricane  
Hook Rail

## Mullions

(True Divided Lites)

\* Available upon request.



## Jamb & Elevation Details



## Jamb & Elevation Details





# G3 SLIDING GLASS DOORS



## G3 System

The G3 Multi-Track Sliding Glass Door System features all of the characteristics of our G2 system, but incorporates a stronger frame, which allows for a thicker glazing infill. This system also allows for higher wind loads and greater deflection, making for a stronger frame than its G2 counterpart.

## G3 Impact System

For coastal applications, our systems can be designed with high-performance sills or hurricane hook rails and/or laminated glazing that will protect your home in extreme conditions.

## G3 STC Rated System

The G3 STC-rated Multi-Track Sliding Glass Door System is ideal for any application that has Sound Transmission Class (STC) requirements. Though acoustic values are typically specific to the glazing selection, the construction of the frame can greatly influence the acoustical performance. The G3 STC-rated system combines enhanced acoustical performance, superior thermal performance, and outstanding functionality.

PLEASE NOTE: Any variation in configuration, sill, or size from tested standards will need to be tested to confirm STC rating.

| G3 System Air & Structure Impact Testing |  |                                      |   |  |                              |          |                  |
|--|--|--------------------------------------|---|--|------------------------------|----------|------------------|
| Panel Size                               | Glazing  | Air Infiltration at 1.57psf (25 MPH) | Water Penetration                           | Design Pressure                                | Uniform Load Structural Test | Overload | Impact & Cycling |
| 60"W x 115"H                             | 1¼" IGU (¾" Tempered Over 7/16" HS .090 SPG Inner Layer) | 0.10 CFM/FT²                         | 7.5psf (HP Sill)<br>10.5psf (Extra HP Sill) | +50/-70psf (HP Sill)<br>±70psf (Extra HP Sill) | ±70psf                       | ±105psf  | ±70psf           |

| G3 STC Rated System Acoustical Testing |                   |  |     |      |
|--|-------------------|--|-----|------|
| Test Report                            | Glazing Thickness | Glazing Makeup                                   | STC | OITC |
| C2184.01-113-11                        | 1¾"               | ¼" Laminated Over ¾" Air Space Over ¾" Laminated | 42  | 36   |
| E3296.01                               | 1¼"               | ¼" Annealed Laminated Over ¾" Annealed Laminated | 38  | 30   |

\* Testing and performance results may vary depending upon sill, size, and hardware selections. Please be sure to visit our website or contact your Solar Innovations® representative for additional product information.

## Panels

- Minimum panel width: 32"; smaller panels may be available upon engineering approval
- Panel size up to 6' x 15'; larger panel options may be available depending on application
- Motorized panels available

## Glazing

- Designed to accommodate almost any insulated, laminated, decorative, polycarbonate, or solid panel infill from 1¼" to 1¾"

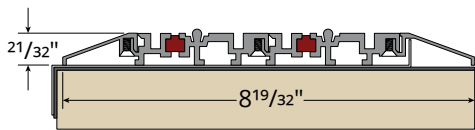
## Performance

- Water performance up to 12psf, depending on sill choice and configuration
- Structural tested up to a design pressure of 100psf
- Higher water and structural performance available with engineering approval

# Sill Options

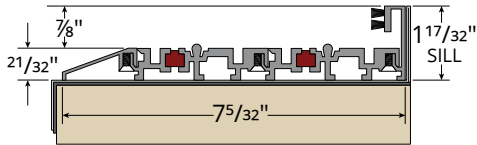
## THERMALLY IMPROVED

Exterior Interior



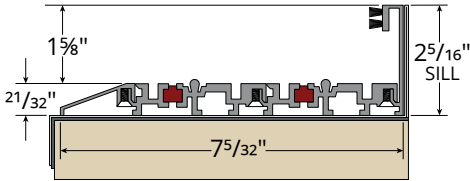
**G3 Sliding Thermal Sill — 5/8" Flat Sill With No Up Leg**  
Limited/no expected field water performance

Exterior Interior



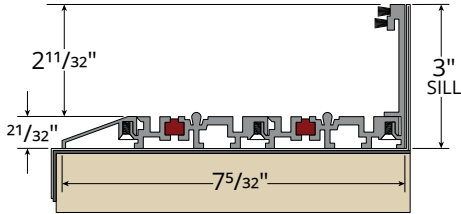
**G3 Sliding Thermal Sill — 1 17/32" Up Leg\***  
4.5PSF expected field water performance

Exterior Interior



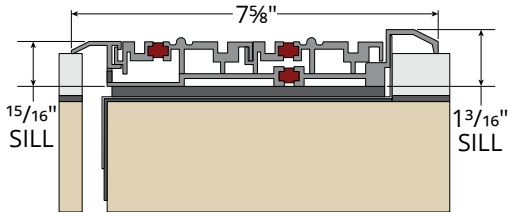
**G3 Sliding Thermal Sill — 2 5/16" Up Leg\***  
8.4PSF expected field water performance

Exterior Interior



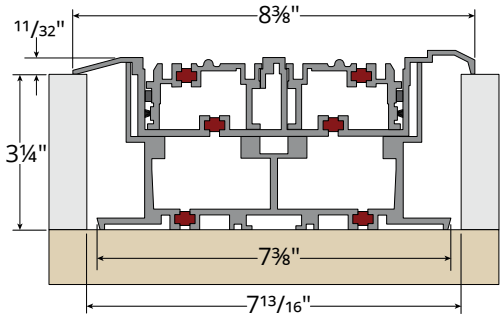
**G3 Sliding Thermal Sill — 3" Up Leg\***  
12PSF expected field water performance

Exterior Interior



**G3 Sliding ADA Sub Sill**  
3-4PSF expected field water performance  
Can use exterior weep flaps or drain tubes  
ADA compliant

Exterior Interior



**ADA Tank Sill**  
12PSF expected field water performance  
Can use exterior weep flaps or drain tubes  
ADA compliant

\*Hurricane certified.

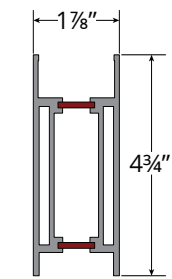
Please note: only standard sill and up leg options are shown. Other variations are available upon request.



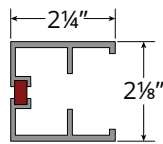


## Vertical & Horizontal Rail Options

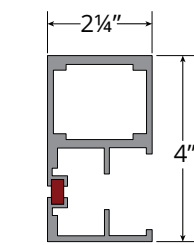
### THERMALLY IMPROVED



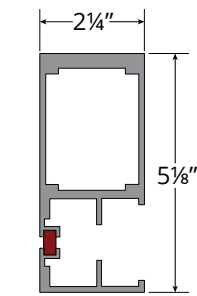
Bottom Rail



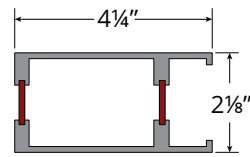
Flush Rail



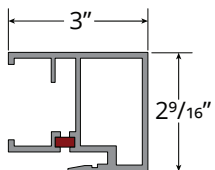
Hurricane Flush Rail



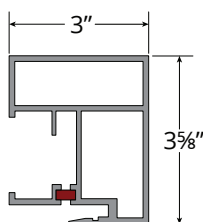
Extra Heavy Hurricane Flush Rail



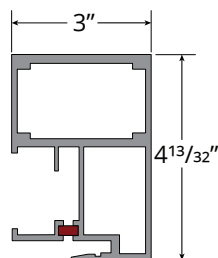
Handle Rail



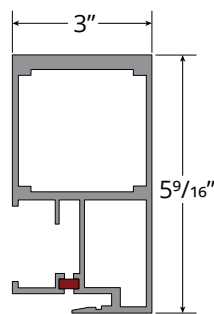
Hook Rail



High Wind Hook Rail



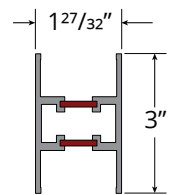
Hurricane Hook Rail



Extra Heavy Hurricane Hook Rail

## Mullions

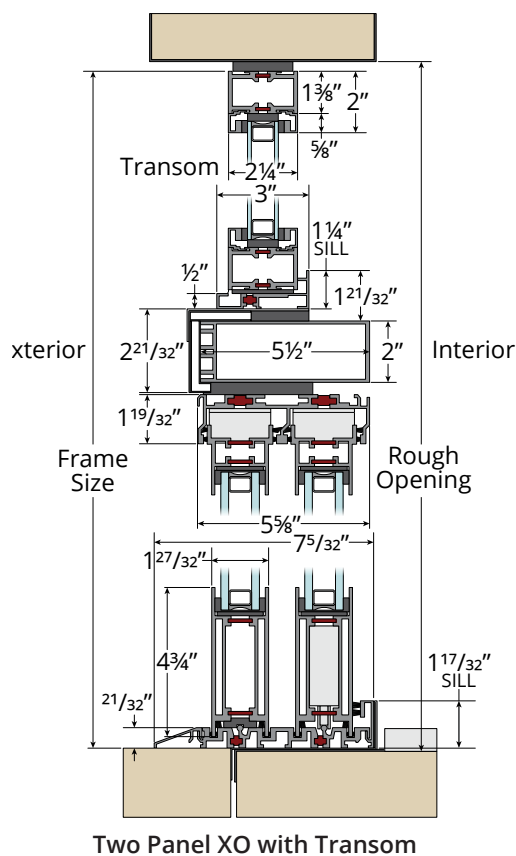
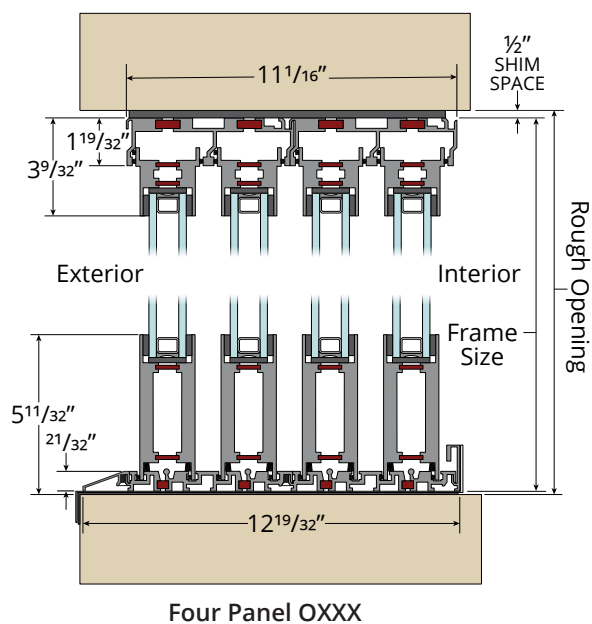
(True Divided Lites)



Horizontal Mullion

**Please note:** All G3 mullions include thermal break, regardless of the system

Head & Sill Detail



Note: Sliding Doors with a header by Solar Innovations are available on a project-by-project basis.

Jamb & Elevation Details

