

SLIDE & STACK GLASS WALL SYSTEMS



SOLAR INNOVATIONS®
ARCHITECTURAL GLAZING SYSTEMS

The ultimate in adaptive design

Slide and Stack Glass Wall systems feature individual panels that slide along a top-hung track and lock into place into the floor. When in the open position, they stack to one or both sides of an opening either directly adjacent to the opening, into a pocketed space, or in a remote location several feet away from the opening. This system can accommodate an unlimited number of panels and can create vast openings between two interior spaces or to a covered outdoor space. For ease of access, a swing door can be integrated into the design to allow the user to enter/exit without disengaging the panels. A Slide and Stack Glass Wall system has limited air and water performance and the panels can either be framed or unframed. They can be incorporated into any residential or commercial project, including covered patios, enclosed porches, restaurants, stadiums, storefronts, and pool houses.

FEATURES

PANELS:

- Top load panels
- Framed glass panels
- Unlimited panels and configurations
- LEED friendly system including recycled content

PERFORMANCE:

- Structurally tested up to 40psf
- Thermally enhanced utilizing thermal strut

GLAZING:

- Monolithic or insulated glazing from 3/16" - 1 9/16"

HARDWARE:

- Custom-manufactured operable hardware
- Panic hardware and closer options available
- Panel assemblies, including hardware and trolleys, designed to minimize and simplify maintenance
- Multiple sill designs, including ADA compliant ramps
- Factory installed sill drain tubes, if required

FINISHES:

- Standard finishes:
 - AAMA 2603: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
 - AAMA 611 Class I Anodized: Clear, Dark Bronze
- Designer finishes:
 - AAMA 2605: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
- Custom finishes:
 - Powder coat finish: AAMA 2604, 2605
 - Fluoropolymer (50% or 70%): AAMA 2604, 2605
 - Faux wood
 - Dual finish — interior/exterior applications

OPTIONS:

- Wood veneer or metal cladding
- Framed and cartridge retractable screen options
- Manufacturer-installed sill drain tubes, if required
- Mullions, decorative muntins, simulated divided lites (SDLs), interior and exterior grids

HARDWARE



A: Handles

SOLID BRASS — COASTAL APPLICATIONS*



Toronto
(Standard)

A F
C G
E H



Atlanta

F G



Dallas

A H
F I
G



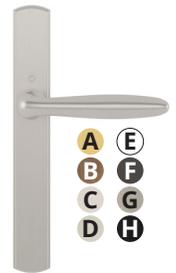
München

A G
B H
C I
F



Ródos

B G
C H
F



Verona

A E
B F
C G
D H

Finish Options

- | | | | | |
|-------------------------|------------------------|--------------------------|-------------------------------|----------------|
| A Polished Brass | B Antique Brass | C Brushed Chrome* | D Polished Chrome* | E White |
| F Matte Black | G Satin Nickel* | H Rustic Umber | I Dark Bronze Metallic | |

*Coastal applications are only available with select finish options.

ALUMINUM— INLAND APPLICATIONS



Frankfurt

A E
B F



London

A E
C F
D

- | | |
|-----------------------|----------------------|
| A Silver | D Grey Brown |
| B Chestnut | E White |
| C Alpine Frost | F Matte Black |

ZAMAC/BRASS — INLAND APPLICATIONS (G2 ONLY)



Allegro

- | |
|------------------|
| Satin Chrome |
| Polished Chrome* |
| Polished Brass |



Torino

- | | |
|-------------------|--------------|
| Antique Brass | Black PC |
| Oil Rubbed Bronze | White PC |
| Dark Bronze PC | Satin Nickel |



Venice

- | |
|-------------|
| Dark Bronze |
| Pewter |

* Not available for Torino

FOR "KEYED ALIKE" APPLICATIONS Commercial core



AR2190

- Bright Brass
- Satin Brass
- Dark Bronze
- Bright Stainless
- Satin Stainless

Additional handle styles, colors, and back plate options available upon request. Non-standard handle options may increase lead times and/or cost. All handles available with thumbturn interior lock with lever exterior, lever interior and exterior, and thumbturn interior lock with keyed exterior options.

B: Hinge



Semi-Concealed Hinge

C: Locks



Two-Point Locking Handle



Two-Point Keyed Locking Handle*



Thumb Turn Lock



Standard Flush Bolt



Recessed Pull



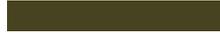
Low Profile Handle

* Additional cost

Pull Hardware, Hinge, and Lock Finish Options



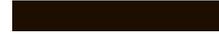
SI White



SI Bronze



Class I Clear Anodized



Dark Bronze Anodized

Custom color options available upon request.

Closer, Catch, & Limiter



D Series 7414 Door Closer



D Series TS93 Door Closer



C Series PR82 Door Closer



Door Limiter

Door Closer Finishes: Aluminum Painted, Bronze, and Black

Commercial Panic Hardware Options



Exterior Entry Trim Square



Mortise Panic



Push/Pull



Push Only

Wire Pulls

Passive Hardware Sets



Square Commercial



Toronto

Concealed vertical rod available.

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 solarinnovations.com for additional product information.



Retail Applications

Slide and stack walls are ideal for storefronts; they completely remove the indoor/outdoor barrier for customers during the day and provide sufficient security after hours.

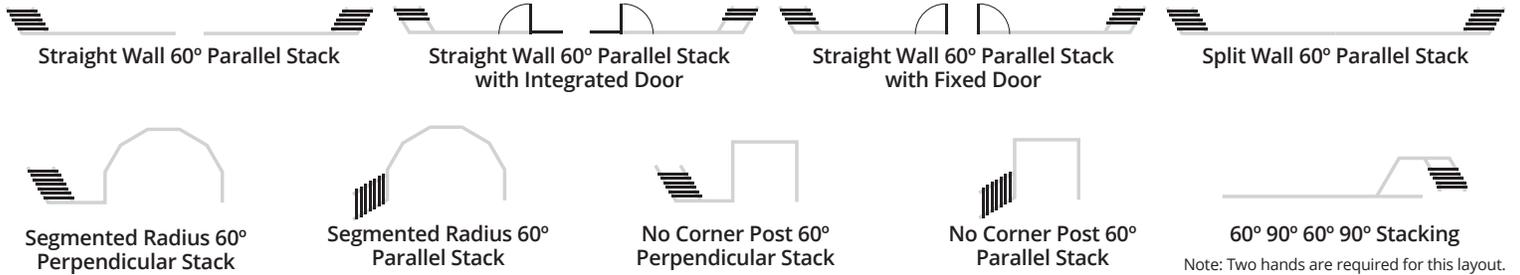
CONFIGURATIONS

One of the features that make a Slide and Stack Glass Wall system stand out is the ability to store the panels in a location where they are kept out of sight. They can be stored parallel or perpendicular to the track and to one or both sides of the system. 60 and 90 degree offset options are available. The diagrams below illustrate just a few examples of the limitless track and storage configurations.

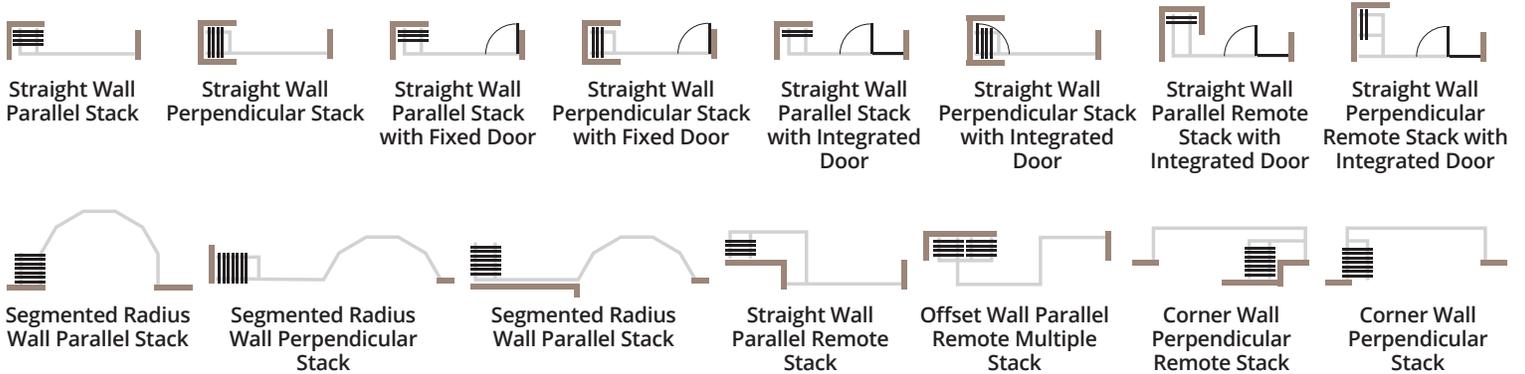


60° Offset Stack Individual Panels

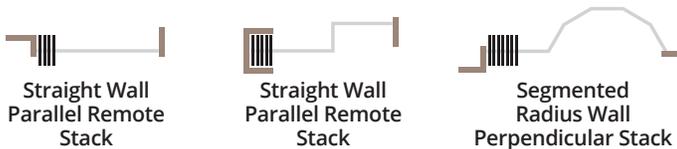
Stacking wall configurations in excess of 8' in height should utilize the 60° configurations for ease of one-handed door operation.



90° Offset Stack Individual Panels



90° Center Hung Hinged Pairs



Limitless custom configurations
 Consult Solar Innovations® Sales & Engineering Departments for custom project-specific designs.



FINISH OPTIONS

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

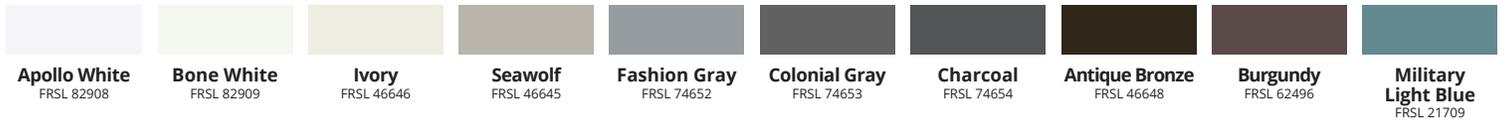


Anodized Additional cost

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.*



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

Metal Clad STANDARD* (EXTERIOR ONLY)



Metal Clad PREMIUM*



Decoral Finishes (Powder Coat)*



Wood Veneering (Unfinished) STANDARD*



Wood Veneering (Unfinished) PREMIUM*



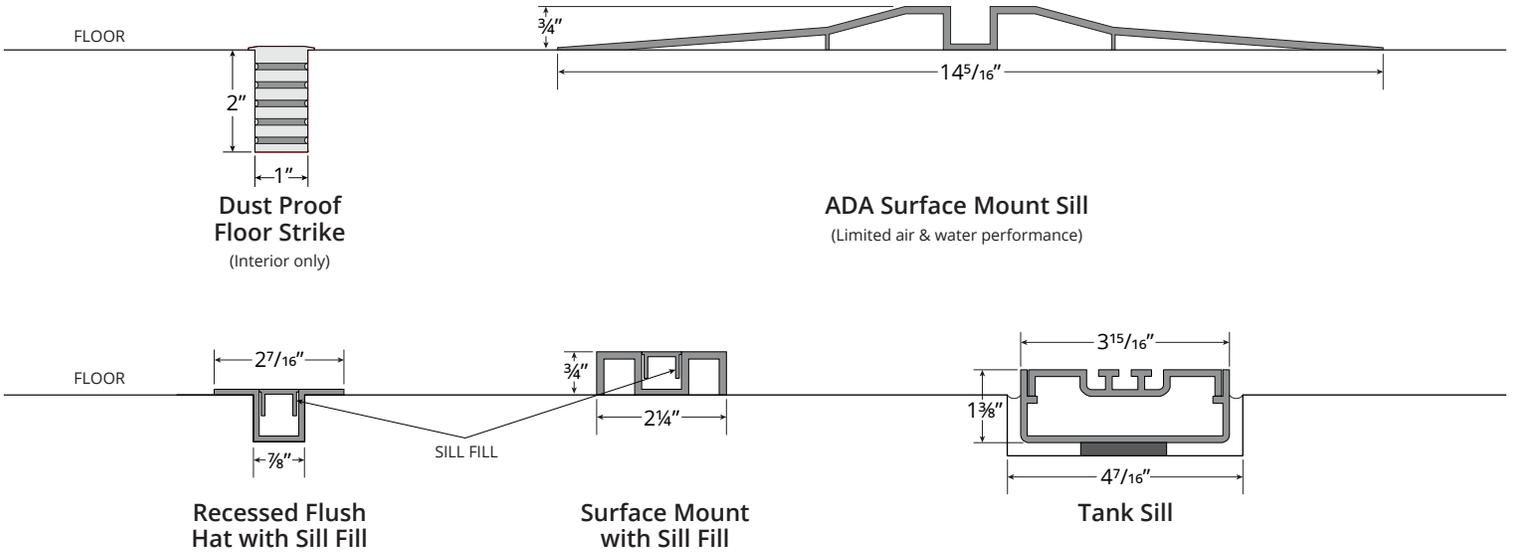
Note: wood veneering is for interior applications only. Available on a limited basis due to vendor supply.

*Lead times subject to availability. ** Special order.

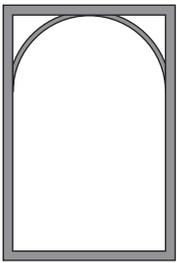
Note: Depending upon color selection, additional charges and increased lead times may apply. Extended warranties and service plans are available for an additional charge. Examples are shown as accurate as photography and printing processes allow. Final finish selection should be made from a physical 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.

To find out more about the features and options of our folding glass walls, visit our website at solarinnovations.com/folding-glass-walls/ or contact one of our sales designers at 800 618 0669.

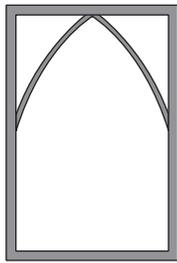
SILL OPTIONS (G2 & G3)



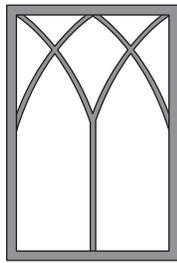
GRID OPTIONS



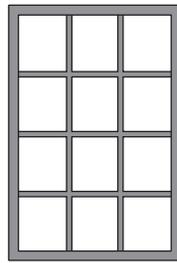
Arched Grid



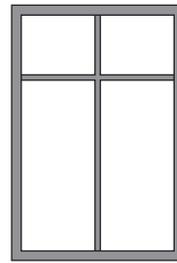
Gothic Grid



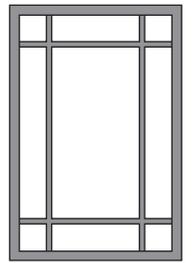
Double Gothic Grid



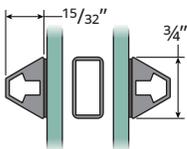
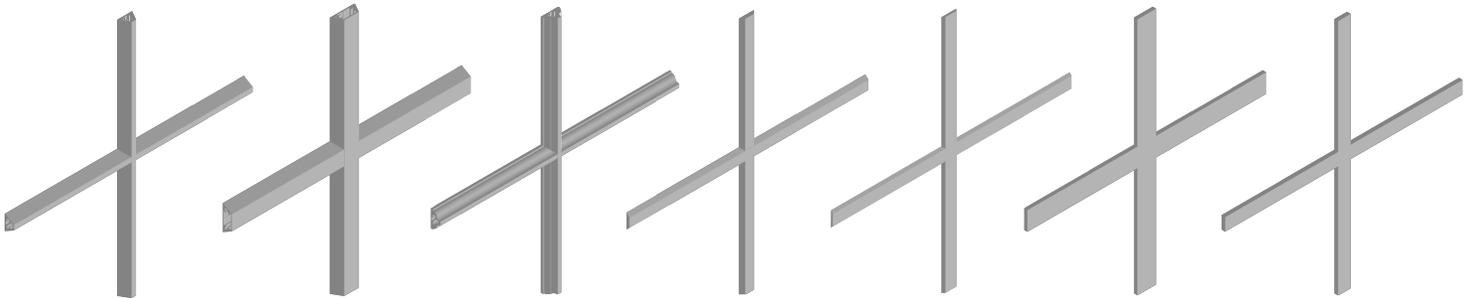
Traditional Grid



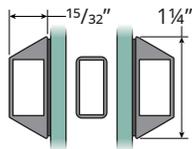
Cross Grid



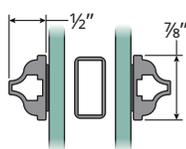
English Grid



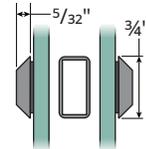
Traditional with SDL



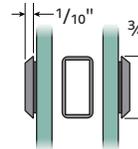
Wide Traditional with SDL



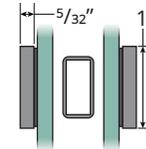
Ogee with SDL



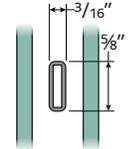
Low Profile with SDL



Thin Low Profile with SDL

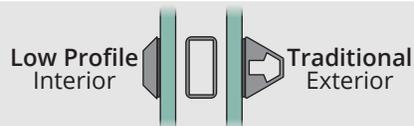


Simulated Steel with SDL



Interior Muntin in Insulated Glass

Like-sized grids can be mixed and matched, for example:





GLASS SPECIFICATIONS

	Overall Unit Thickness	U-Value	R-Value	Solar Heat Gain Coefficient	Visible Light Transmission	Reflectance Out	Reflectance In	UV Transmittance
MONOLITHIC								
Clear	¼"	1.02	0.91	0.82	88%	8%	8%	62%
DOUBLE GLAZED Outside Lite/Inside Lite								
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%
TRIPLE GLAZED Outside Lite/Middle Lite/Inside Lite								
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 SLIDE & STACK GLASS WALLS

G2 Thermal System

G2 Thermally-improved aluminum Slide and Stack Glass Wall Systems are a great way to open long spans between indoor and covered outdoor spaces. The frame utilizes a thermal break that limits temperature transfer between the interior and exterior aluminum surfaces. Due to limited air and water performance, it is not recommended that this system is directly exposed to the weather.

Frames are available in three frame widths: narrow, standard, and heavy. For a consistent look, the same frame widths can be used for both the horizontal and vertical frame members or, depending on the application, the frame members can vary between the horizontal and vertical frames. This flexibility allows multiple sightline and bottom rail configurations that can be retrofitted to match an existing opening or accommodate specific structural requirements.

G2 Non-thermal System

G2 Non-thermal Slide and Stack Glass Wall Systems do not include a thermal break and are ideal for mild climates and indoor uses. The frames are available in two frame widths: narrow and standard. Their flexibility make them the perfect solution for dividing large interior spaces into multiple smaller areas, while allowing natural light to pass from room to room.



Panels

- Minimum panel size: 18" wide; smaller panels may be available upon engineering approval
- Panel size up to 4' x 10' (or 40 sq. ft.); larger panel options may be available depending on application

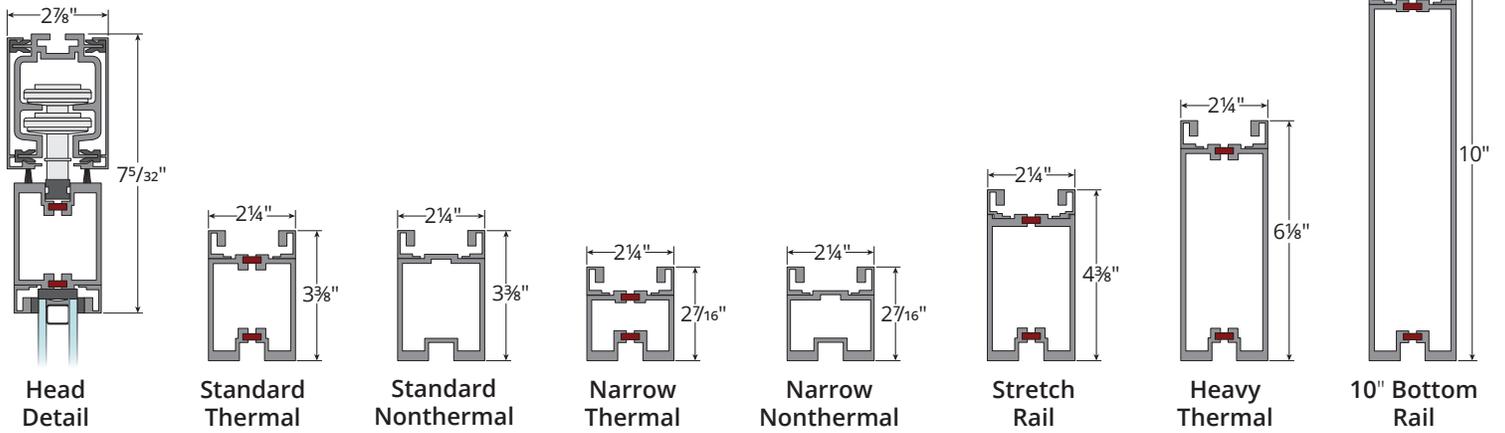
Glazing

- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from $\frac{3}{16}$ " to $1\frac{1}{4}$ "

Performance

- Structurally tested up to a design pressure of 40psf
- Test results available upon request

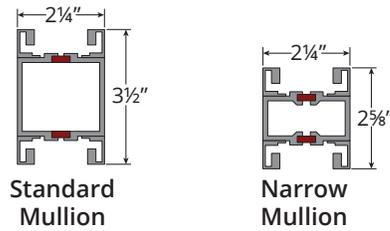
Vertical & Horizontal Rail Options



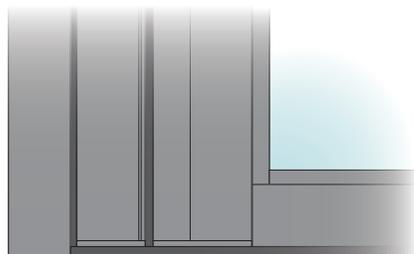
Mullion Options

(True Divided Lites)

Please note: All mullions offered by Solar Innovations® include thermal break, regardless of the system



Jamb Details



Standard Jamb & Frame



Narrow Jamb & Frame



Stadium Applications

Stacking Glass Walls and windows are ideal for stadium boxes and suites because they allow for an enclosed, thermally-enhanced space during inclement weather and wide, unobstructed views of the action when open.

G3 SLIDE & STACK GLASS WALLS



G3 Thermal System

G3 thermally-improved Slide & Stack Wall Systems are designed for commercial and residential applications that require higher design pressures. This system has been designed to support larger glass sizes while maintaining the ease of operation as our G2 System. The G3 System offers exceptional air, water, structural, acoustical, and thermal performance using a thermal strut system that separates the interior metal from the exterior metal. By including this thermal break, the temperature transfer between the outdoors and indoors is minimized.

Frames are available in two frame widths: standard and narrow. For a consistent look, the same frame widths can be used for both the horizontal and vertical frame members or, depending on the application, the frame members can vary between the horizontal and vertical frames. This system was created with similar sightlines to the G2 Systems so that the two could be used together, if desired. The flexibility of both systems allows multiple sightline and bottom rail configurations that can be retrofitted to match an existing opening or accommodate specific structural requirements.

Panels

- Minimum panel width: 24"; smaller panels may be available based upon engineering
- Maximum panel size: 4' x 12'; larger panel options may be available depending on application*

Glazing

- Designed to accommodate monolithic and insulated glazing infills from 1/4" to 1 9/16"

Performance

- Acoustical performance utilizing G3 Narrow:
 - 1 5/16" IGU: STC 32 / OITC 28
 - 1 9/16" IGU: Ratings dependent on sill

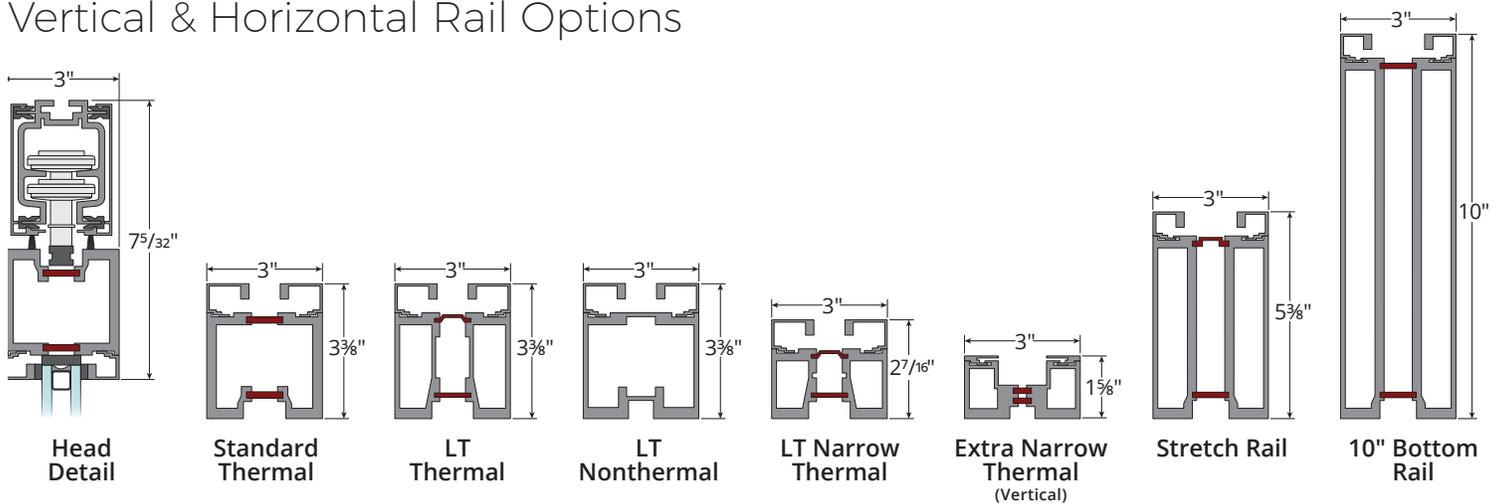
*Please note that while fabrication allows for larger sizes, operation may become more difficult in applications over 3' x 10'.



Pool & Spa Applications

Stacking Glass Walls can be used to enclose a pool or spa area, allowing the space to be enjoyed year round.

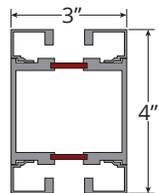
Vertical & Horizontal Rail Options



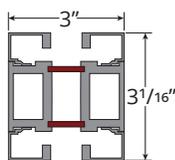
Mullion Options

(True Divided Lites)

Please note: All mullions offered by Solar Innovations® include thermal break, regardless of the system

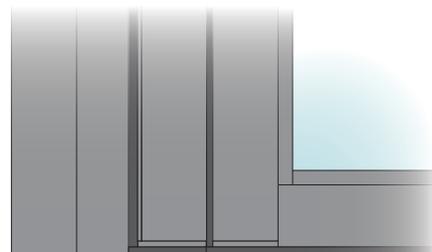
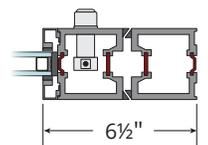
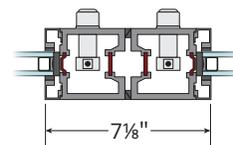
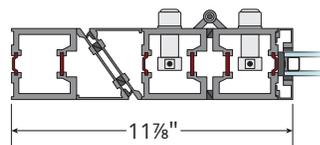


Standard Mullion



Narrow Mullion

Jamb Details



Standard G3 Jamb & Frame

Learn More

To find out more about our Slide & Stack Glass Wall systems, visit our website at <http://solarinnovations.com/stacking-glass-walls> or contact one of our sales representatives at 800 618 0669.