

FOLDING GLASS WALL SYSTEMS



A seamless wall with endless possibilities.

Folding glass walls have been a signature product of Solar Innovations® for over 15 years. Also known as bi-fold doors or accordion-style doors, folding glass walls can accommodate any number of panels and configurations. These systems offer a flexible and customizable opening that can be incorporated into any residential or commercial project including covered patios, living rooms, decks, enclosed porches, and pool houses. Swing doors can be integrated into the folding glass walls, allowing the user to easily enter and exit a room without opening all of the panels. The endless possibilities—including custom color finishes, custom hardware, and highest impact rating—make folding glass walls the perfect opening for any application.

FEATURES

PANELS:

- Top or bottom load
- In-fold or out-fold operation
- Endless configurations possible
- LEED friendly system including recycled content
- Designed and manufactured in the U.S.A.

HARDWARE:

- Custom manufactured operable hardware
- Panic hardware and closer options available
- Roller assemblies designed to minimize and simplify panel maintenance
- Zero-maintenance extruded aluminum hinges with stainless steel pins
- Multiple hardware styles and finishes
- Multiple sill designs, including ADA compliant ramps

GLAZING:

- Designed to accommodate almost any glazing infill including panels, glass, acrylic, and polycarbonate from 3/16" to 1 1/8"

OPTIONS

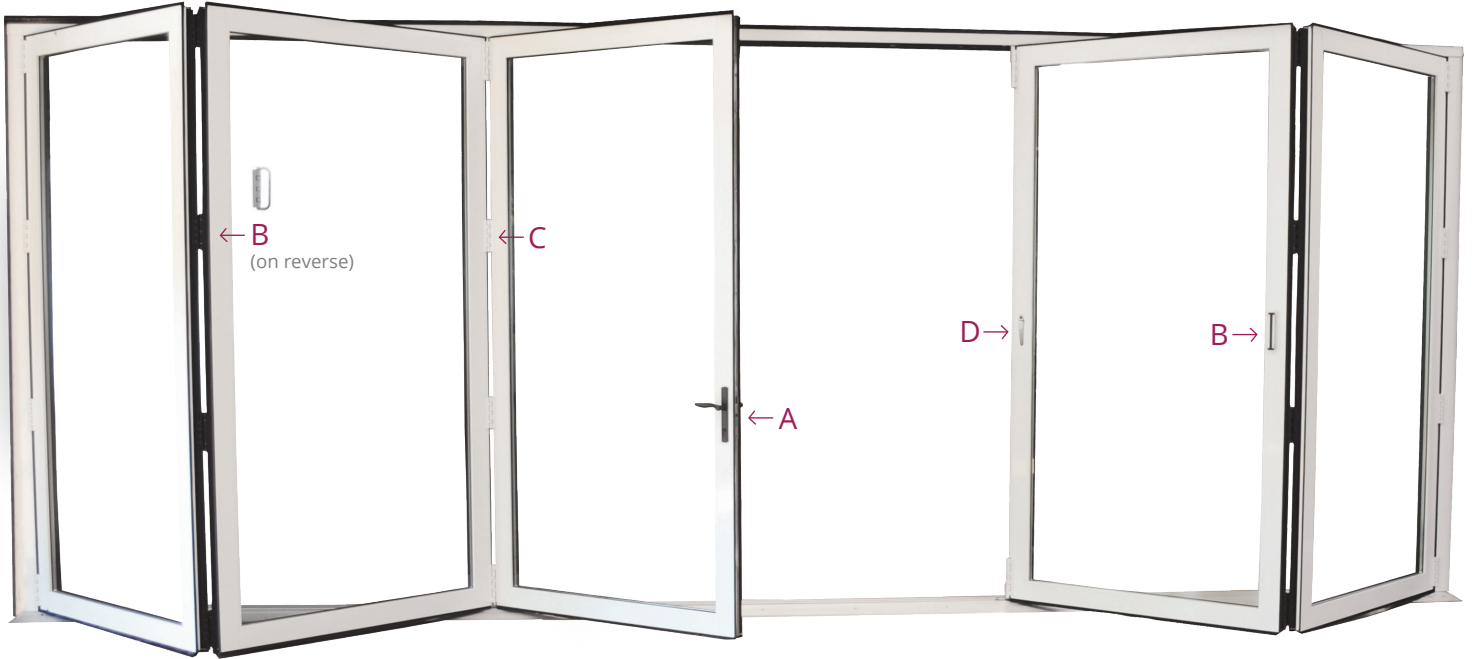
FINISHES:

- Standard finishes:
 - AAMA 2603: Bronze, White
 - AAMA 611 Class I Anodized: Clear, Dark Bronze
- Designer finishes:
 - AAMA 2603: Hartford Green, Black Natural Clay, Sandstone
- Custom finishes:
 - Powder coat finish: AAMA 2604 - 2605
 - Fluoropolymer (50% or 70%): AAMA 2604 - 2605
 - Wood veneer, metal cladding, and foiling options
 - Dual color or dual finish options

ACCESSORIES:

- Matching fixed transoms & sidelites
- Integrated options:
 - Swing doors - single or double
 - Dutch doors - single or double
 - Pet doors
- Screen options: folding, sliding, retractable
- Factory installed sill drain tubes, if required
- Mullions, decorative muntins, simulated divided lites (SDLs), interior and exterior grids

HARDWARE



A: Handles

STANDARD OPTIONS



Toronto

Finish Options



Allegro

Finish Options



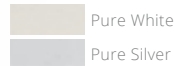
ALUMINUM - INLAND APPLICATIONS



Frankfurt



London



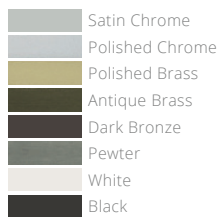
BRASS - INLAND APPLICATIONS



Capri



Venice



SOLID BRASS - COASTAL APPLICATIONS*



Ródos



Verona



München



New Orleans



Dallas



*Coastal applications are only available with select finish options.

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: Pull Hardware

C: Hinges

D: Locks



Recessed Pull (In-Fold) **Wire Pull Hinge (Out-Fold)** **Low Profile Handle** **Semi-Concealed Hinge** **Surface Mount Hinge** **Two Point Locking Handle** **Two Point Keyed Lock** **Thumb Turn Lock** **Standard Flush Bolt**

Pull Hardware, Hinge, and Lock Finish Options



Custom color options are also available with engineer approval.

Closer, Catch, & Limiter



D Series 7414 Door Closer

D Series TS93 Door Closer

C Series PR82 Door Closer

Adjustable Door Catch

Door Limiter

Door Closer Finishes: Aluminum Painted, Bronze, Black

Adjustable Door Catch Finishes: Clear Anodized, Dark Bronze Anodized, White Painted, and Bronze Painted.

Commercial Panic Hardware Options

Passive Hardware Sets



Exterior Entry Trim SQUARE

Mortise Panic

Impact Panic

Push/Pull

Push Only

Wire Pulls



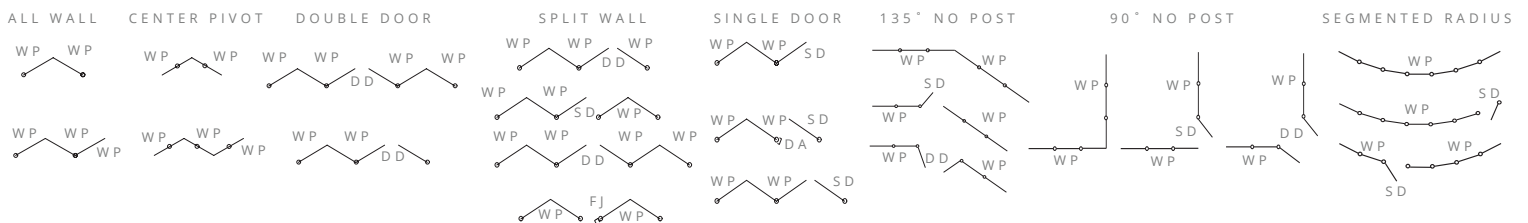
Square Commercial

Toronto

Concealed vertical rod available on commercial panic hardware.

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

CONFIGURATIONS



WP = Wall Panel SD = Single Door DD = Double Door DA = Door Adapter FJ = Floating Jamb

Custom configurations available upon request.

FINISH OPTIONS

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



Anodized Additional cost



Paint DESIGNER - AAMA 2604 (5 year warranty), AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*



Powder Coat Solids AAMA 2604 (10 year warranty), AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*



Powder Coat Metallics AAMA 2604, AAMA 2605*



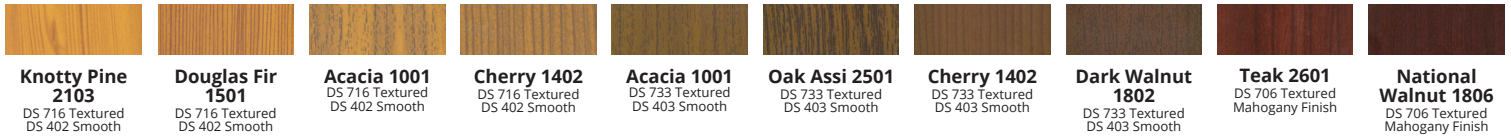
Metal Clad STANDARD*



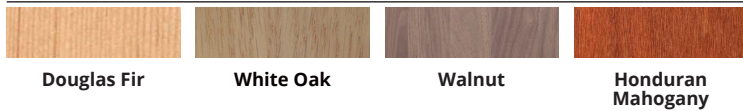
Metal Clad DESIGNER*



Decoral Finishes (Powder Coat)*



Wood Veneering (Unfinished) STANDARD*



Wood Veneering (Unfinished) DESIGNER*



Wood/Glulam STANDARD*



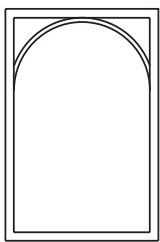
Wood/Glulam DESIGNER*



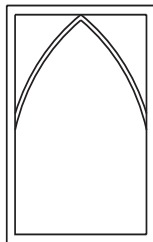
*Adds one to three weeks to lead time.

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. FSC options available.

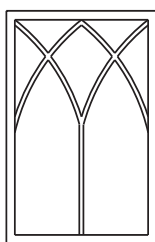
GRID OPTIONS



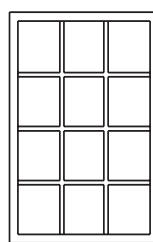
Arched Grid



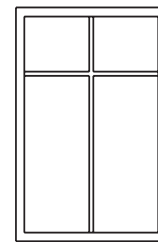
Gothic Grid



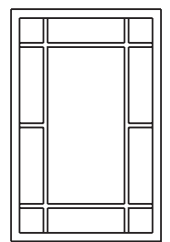
Double Gothic Grid



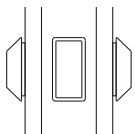
Traditional Grid



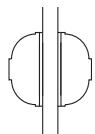
Cross Grid



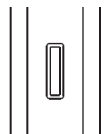
English Grid



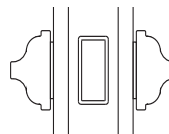
Low Profile Grid with SDL



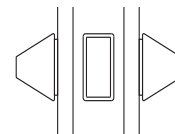
Colonial Grid Detail on Monolithic Glass



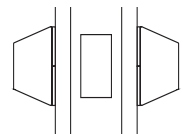
Interior Muntin Grid Detail on Insulated Glass



Ogee Grid with SDL



Traditional Grid with SDL



1 1/4" Traditional Grid with SDL

Low profile grids can be used on all systems. Colonial, Ogee, and Traditional grids cannot be used on sliding glass doors, windows, or walls. Please visit www.solarinnovations.com for additional decorative options.

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 representatives at 800 618 0669.

G2 FOLDING GLASS WALLS



G2 Thermal System

G2 Aluminum Folding Glass Wall Systems are a great way to open your environment. The frame uses a thermal strut system that separates the interior metal from the exterior metal. By including a thermal break, the temperature transfer between the outdoors and indoors is minimized.

The frames are available in two vertical stile widths: narrow and standard. The widths can be combined over multiple units for a unique style or kept consistent throughout. This flexibility allows multiple sightline and bottom rail configurations that can be retrofitted to match an existing opening or accommodate specific structural requirements.

G2 Nonthermal System

G2 Nonthermal Aluminum Folding Glass Wall Systems are ideal for mild climates and indoor uses. This system is popular for conference rooms, interior commercial entryways, classrooms, as well as residential and commercial room dividers. Frames are available in two vertical stile widths: narrow and standard. These can be combined over multiple units for a unique style or kept consistent throughout.

Panels

- Minimum panel size: 18" wide; smaller panels may be available upon engineering approval
- Panel size up to 3' x 10'; larger panel options may be available depending on application

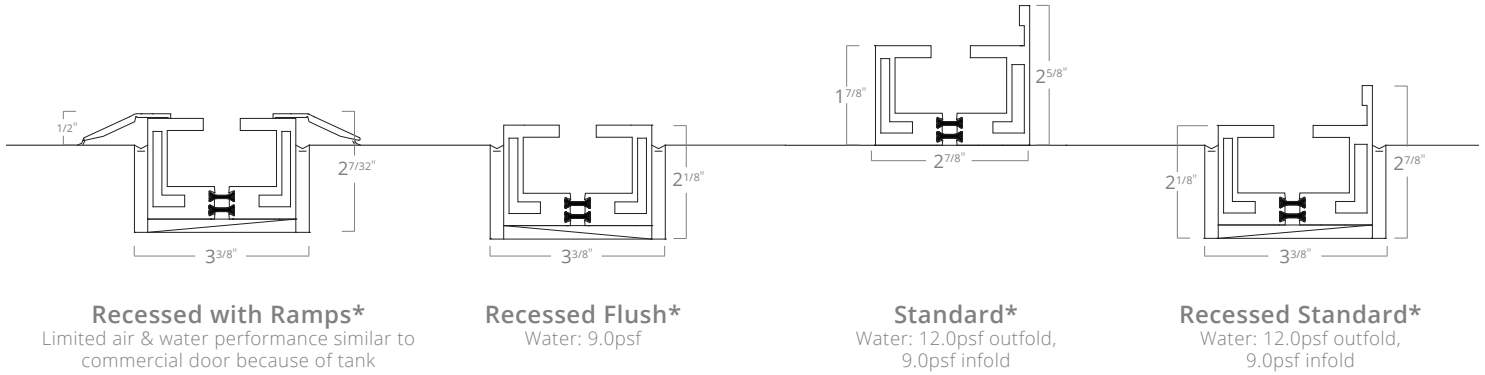
Glazing

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

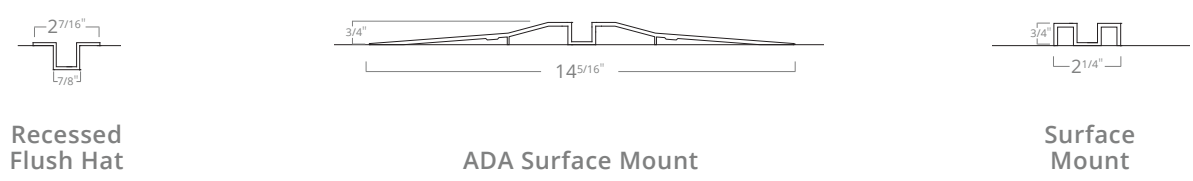
Performance

- Water performance up to 15psf, depending on sill choice and configuration
- Structurally tested up to a design pressure of 80psf
- Higher design pressure ratings available with engineering approval
- Test results available upon request

Top & Bottom Load Sill Options

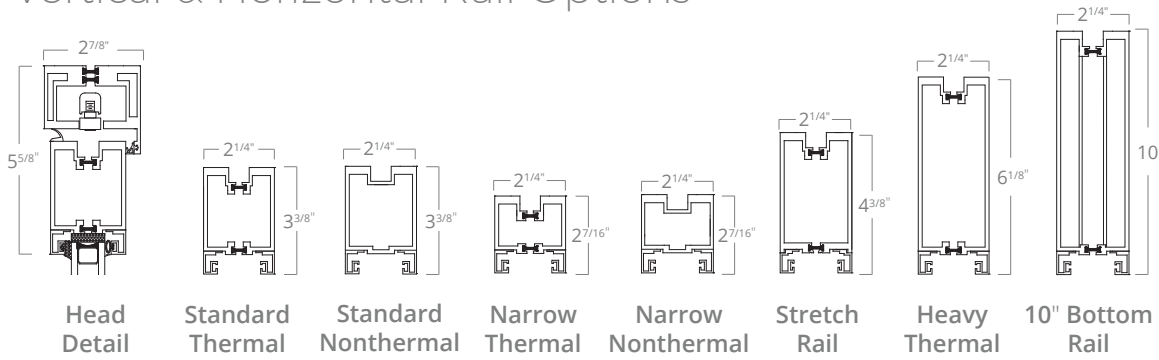


Top Load Only Sill Options



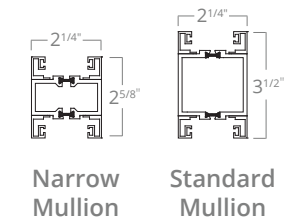
*G2 Center Pivot Folding Glass Walls will get limited air and water performance.

Vertical & Horizontal Rail Options

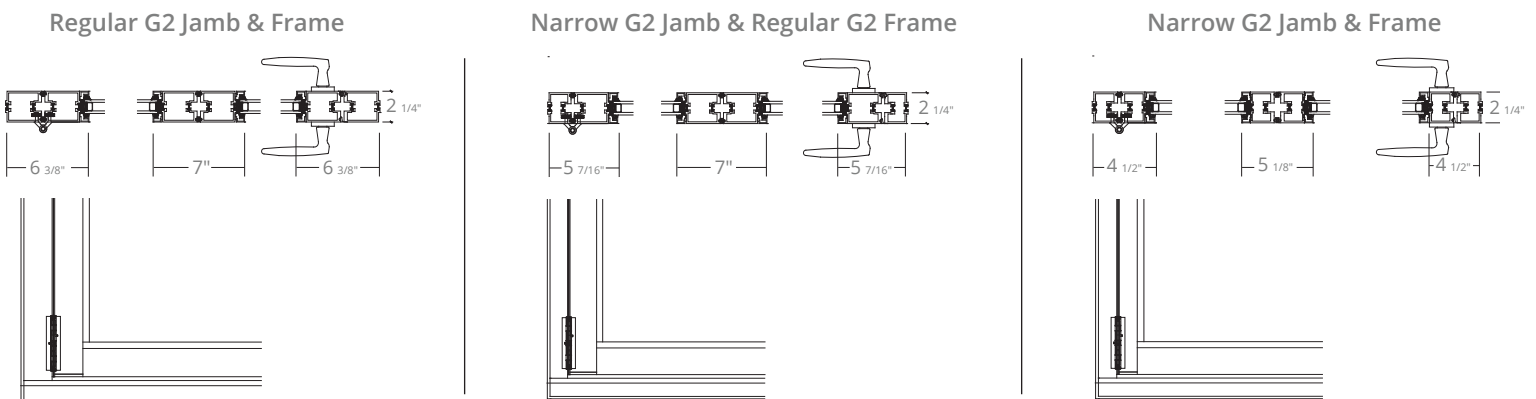


Mullion Options (True Divided Lites)

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

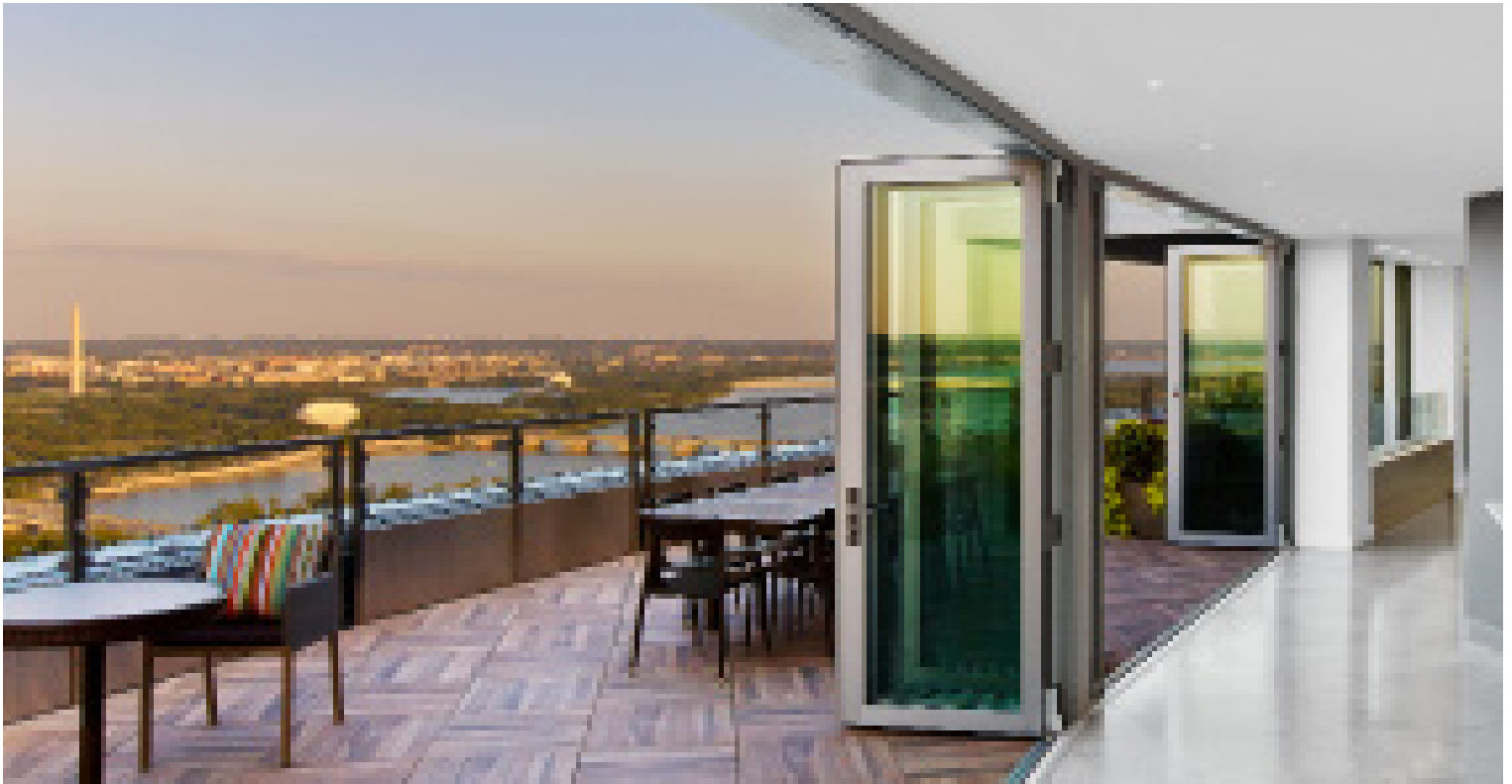


Jamb Details



Top and bottom horizontals unable to utilize narrow framing. Options dependent upon desired size and engineering requirements.

G3 FOLDING GLASS WALLS



G3 Thermal System

G3 Aluminum Folding Glass Wall Systems are designed for commercial and residential applications that require higher design pressures. This system has been designed to support larger sizes with ease of operation and offers exceptional air, water, structural, and thermal performance. The frame uses 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 limited.

Frames are available in three vertical stile widths: standard, narrow, and xtra narrow. You can select a consistent vertical width or mix and match the three stile widths to create a truly unique product. 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
- Panel size up to 3' x 15'; 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 ¼" to 1½"

Performance

- Water performance up to 15psf, depending on sill choice and configuration
 - Structural tested up to a design pressure of 100psf
 - Higher water and structural performance available with engineering approval
 - Test results available upon request
- Performance does not apply to G3 Marine Glazed System.

G3 Nonthermal System

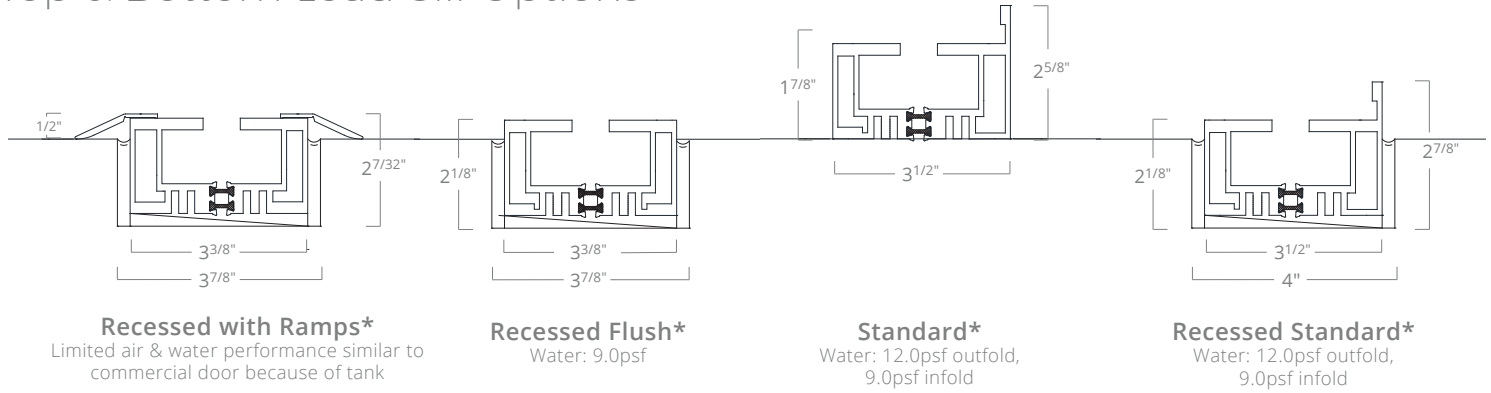
The G3 nonthermal system is ideal for applications that do not require thermal performance, including mild climates and indoor uses—this system is popular for interior entryways and room dividers.

G3 Marine Glazed System

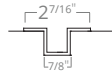
Our G3 Extra Narrow Marine Glazed Folding Glass Wall System uses a patented design to combine vertical marine glazing with horizontal stop glazing in order to create a much narrower vertical frame than conventional stop glazed doors. The G3 Extra Narrow Marine Glazed System is the narrowest four-sided thermally broken glazed bi-fold door in the market.



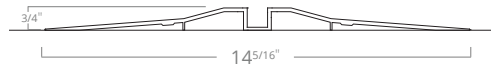
Top & Bottom Load Sill Options



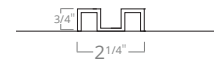
Top Load Only Sill Options



**Recessed
Flush Hat**



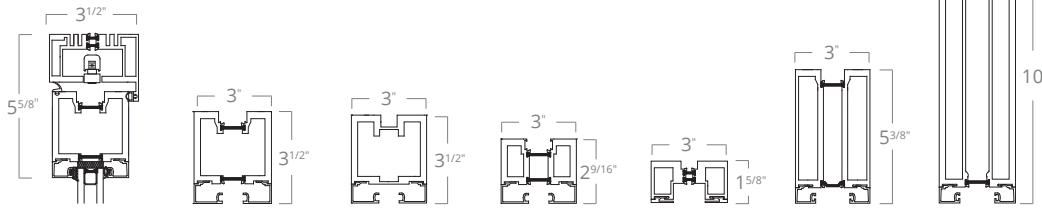
ADA Surface Mount



**Surface
Mount**

*G3 Center Pivot Folding Glass Walls will get limited air and water performance.

Vertical & Horizontal Rail Options



**Head
Detail**

**Standard
Thermal**

**Standard
Nonthermal**

**Narrow
Thermal**

**Xtra Narrow
Thermal
(Vertical)**

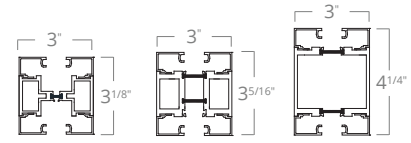
**Stretch
Rail**

10\"/>

Mullion Options

(True Divided Lites)

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



**Xtra Narrow
Mullion**

**G3 Terrace
Door Mullion**

**G3 Mullion
275**

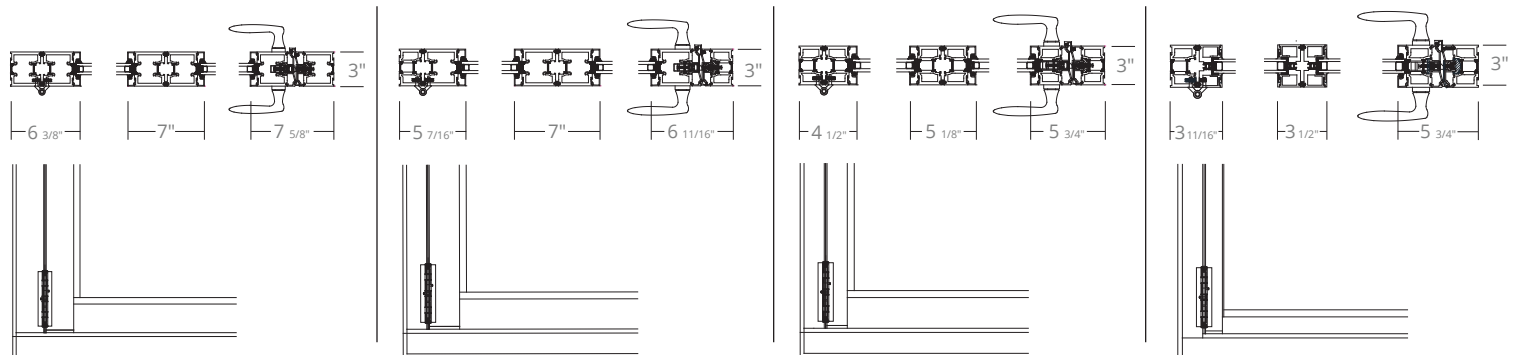
Jamb Details

Standard G3 Jamb & Frame

Narrow G3 Jamb & Standard G3 Frame

Narrow G3 Jamb & Frame

Xtra Narrow G3 Jamb & Frame



Top and bottom horizontals unable to utilize narrow or xtra narrow framing. Options dependent upon desired size and engineering requirements.