

SIMULATED STEEL FOLDING GLASS WALL SYSTEMS



The look of steel with the durability of aluminum

Simulated Steel Folding Glass Walls, (Bi-fold Doors or Accordion-Style Doors), have the look of traditional steel doors, with the performance benefits and light weight of aluminum. This is achieved by using our Marine Glazed (Extra Narrow) framing system, horizontal mullions or steel-look grids and an offset lock box. These systems have the same smooth operation as our standard Folding Glass Walls and are available countless configurations for both interior and exterior applications.

FEATURES

OPERATION:

- Top or bottom load
- In-fold or out-fold operation
- Endless configurations possible
- Swing door integration
- No corner post setup available
- Center pivot option

FRAMING:

- Aluminum
- Frame widths: 3 $\frac{3}{8}$ ", 2 $\frac{7}{16}$ ", and 1 $\frac{5}{8}$ " (G3 only)
- Up to 3' x 10' panels and larger
- Standard, high performance and ADA compliant sills
- Matching sidelites and transoms
- LEED friendly system including recycled content

HARDWARE:

- Multiple handle styles and finishes
- Panic hardware and closer options available
- Roller assemblies designed to minimize and simplify panel maintenance
- Zero-maintenance extruded aluminum hinges with stainless steel pins
- Custom manufactured pulls and locks
- Closers (overhead)

GLAZING:

- Designed to accommodate almost any glazing infill including glass, acrylic, polycarbonate and solid panels, from $\frac{3}{16}$ " to 1 $\frac{1}{4}$ "

PERFORMANCE:

- Air, water, structural, impact, acoustical and thermally tested options

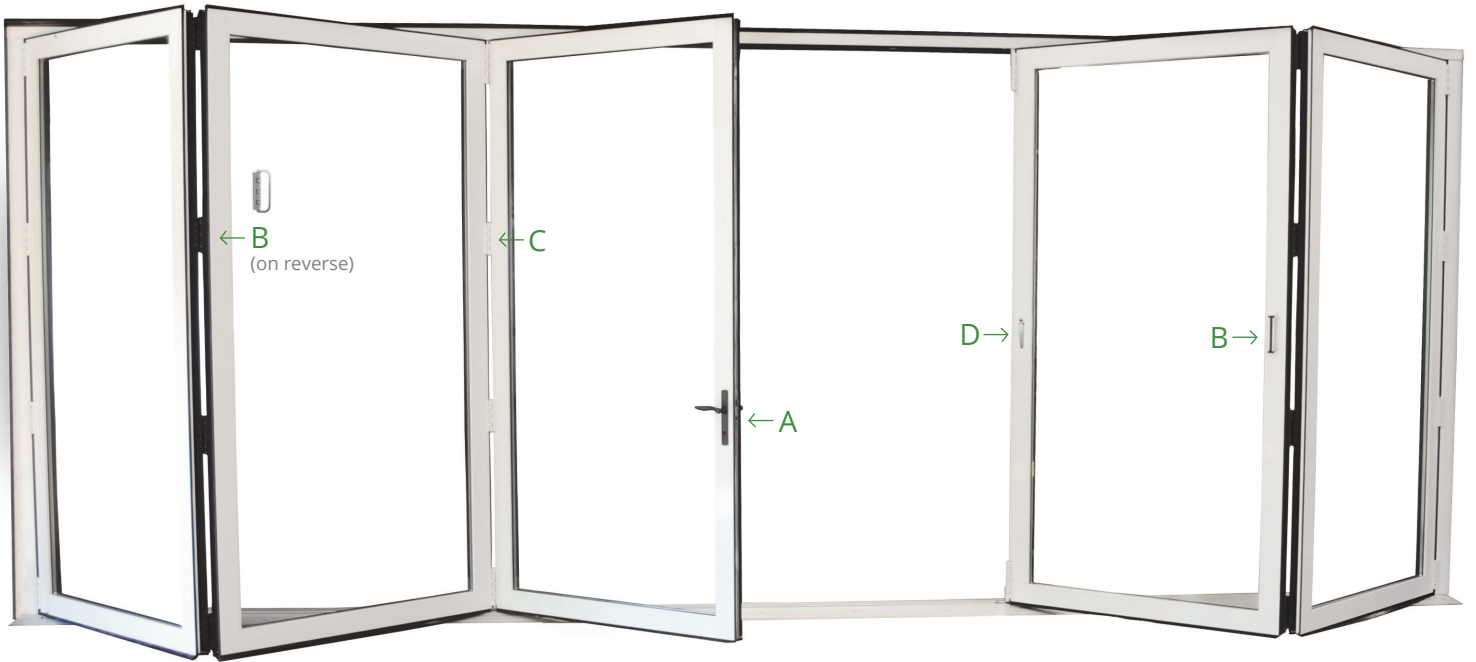
FINISHES:

- Standard finishes:
 - AAMA 2603: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
 - AAMA 611 Class I Anodized: Clear, Dark Bronze
- Designer finishes:
 - AAMA 2604: 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:

- 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 G
C H
E I



Atlanta

G H



Dallas

A I
G J
H



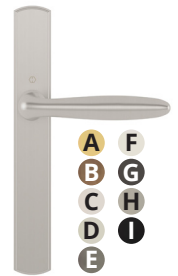
München

A G
B H
C I
E J



Ródos

B G
C H
E I



Verona

A F
B G
C H
D I
E

Finish Options

A Polished Brass

B Antique Brass

C Brushed Chrome*

D Polished Chrome*

E Oil Rubbed Brass

F White

G Matte Black

H Satin Nickel*

I Rustic Umber

J Dark Bronze Metallic

*Coastal applications are only available with select finish options.

ALUMINUM — INLAND APPLICATIONS



Frankfurt



London

Pure White

Pure Silver

ZAMAC/BRASS — INLAND APPLICATIONS (G2 ONLY)



Allegro



Torino



Venice

Satin Chrome

Polished Chrome*

Polished Brass

Antique Brass

Oil Rubbed Bronze

Dark Bronze PC

Black PC

White PC

Satin Nickel

Dark Bronze

Pewter

* Not available for Torino

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



Recessed Pull
(In-Fold)

Extruded Hinge Pull
(Out-Fold)



Low Profile Handle

C: Hinges



Semi-Concealed Hinge

Surface Mount Hinge

D: Locks



Two-Point Locking Handle

Two-Point Keyed Locking Handle*

Thumb Turn Lock

Standard Flush Bolt

* Additional cost

Pull Hardware, Hinge, and Lock Finish Options



Custom color options are also available upon request.

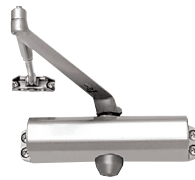
Closer, Catch, & Limiter



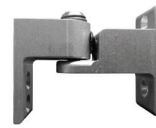
D Series 7414 Door Closer



D Series TS93 Door Closer



C Series PR82 Door Closer



Adjustable Door Catch



Door Limiter

Door Closer Finishes: Aluminum Painted, Bronze, and Black

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

Commercial Panic Hardware Options



Exterior Entry Trim Square



Mortise Panic



Impact Panic



Push/Pull



Push Only

Wire Pulls



Square Commercial



Toronto

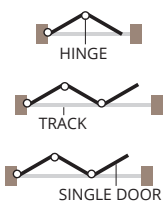
Concealed vertical rod available.

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.

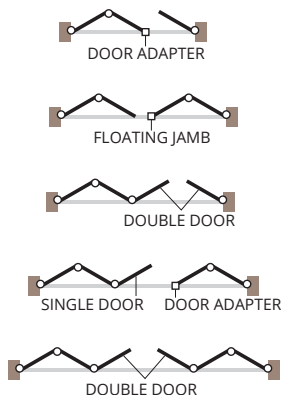
Passive Hardware Sets

CONFIGURATIONS/OPERATION

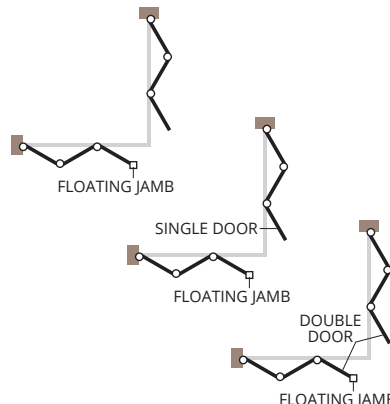
Single Direction (All Wall)



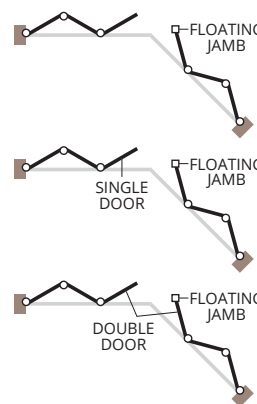
Split Wall



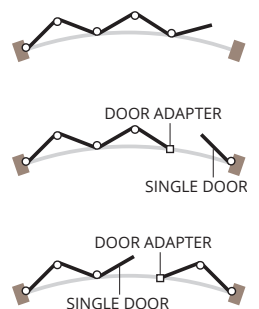
90 Degree No Post



135 Degree No Post



Segmented Radius



Custom configurations available upon request.

FINISH OPTIONS

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



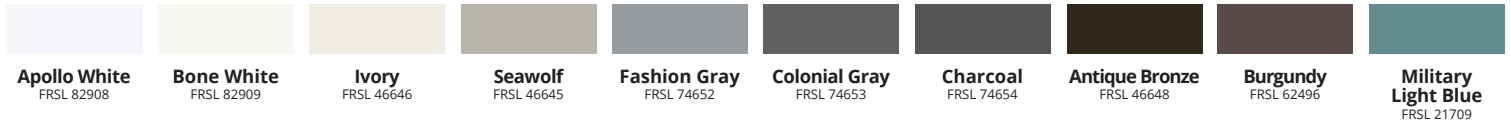
Anodized Additional cost



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

Metal Clad STANDARD*



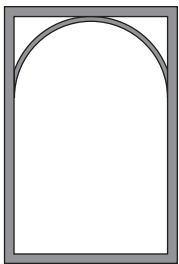
Metal Clad PREMIUM*



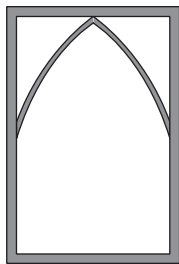
*Lead times subject to availability.

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.

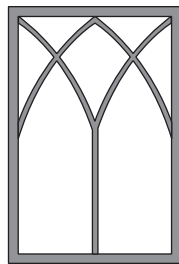
GRID OPTIONS



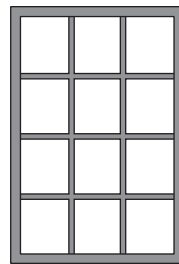
Arched Grid



Gothic Grid



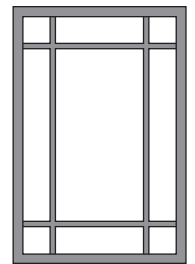
Double Gothic Grid



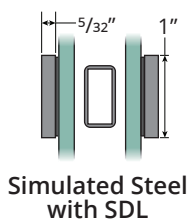
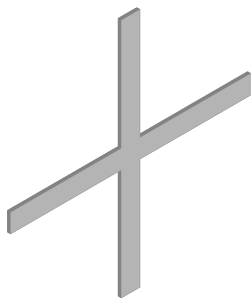
Traditional Grid



Cross Grid

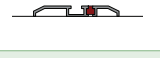



English Grid



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 COMPARISONS

Folding Glass Wall Sill Type	Application	Top Load	Bottom Load	Recessed	Surface Mount	ADA Compliant	Florida Impact Tested	Water Performance	Max. Panel Height	Max. Frame Width	Max. Header Deflection	
	G3 Recessed with Ramps	Interior or Exterior	Yes	Yes	Yes	No	Yes, with Sill Fill	Yes	Limited*	Varies	Varies	3/16"
	G3 Recessed Flush	Interior or Exterior	Yes	Yes	Yes	Yes	Yes, with Sill Fill	Yes	9psf	Varies	Varies	3/16"
	G3 Recessed Standard	Interior or Exterior	Yes	Yes	Yes	No	No	Yes	12psf Outfold 9psf Infold	Varies	Varies	3/16"
	G3 Standard	Interior or Exterior	Yes	Yes	No	Yes	No	Yes	12psf Outfold 9psf Infold	Varies	Varies	3/16"
	G3 Stepped with Ramps	Interior or Exterior	Yes	Yes	Yes	No	Yes	No	Limited*	Varies	Varies	3/16"
	Recessed Flush Hat	Interior or Exterior	Yes	No	Yes	No	Yes, with Sill Fill	No	Limited*	10' 6"	Varies	3/16"
	ADA Recessed Flush Hat	Interior or Exterior	Yes	No	Yes	No	Yes	No	Limited*	10'	Varies	3/16"
	Surface Mount	Interior or Exterior	Yes	No	No	Yes	No	No	Limited*	10' 6"	Varies	3/16"
	ADA Surface Mount	Interior or Exterior	Yes	No	No	Yes	Yes	No	Limited*	10' 6"	Varies	3/16"
	Thermal ADA	Interior or Exterior	Yes	No	No	Yes	Yes	No	Limited*	8'	16'	3/32"
	Recessed Thermal ADA	Interior or Exterior	Yes	No	Yes	No	Yes	No	Limited*	10'	Varies	1/4"

*Limited air and water performance similar to a commercial door

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 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 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 design. 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 request
- Panel size up to 3' x 10'; larger panel options may be available depending on application

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

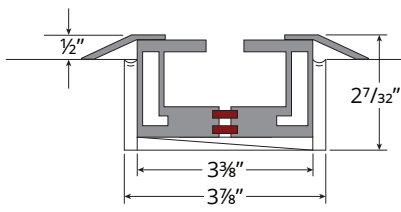
Our G3 Extra Narrow Marine Glazed Folding Glass Wall System optimizes the view of the outdoors by minimizing the vertical stiles. It uses a patented design to combine vertical marine glazing with horizontal stop glazing in order to create a much narrower vertical frame than conventional stop glazed doors.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



Glazing

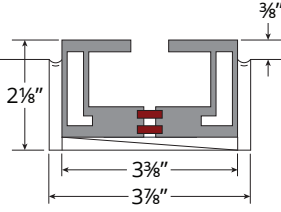
- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from ¼" to 1¼"

TOP & BOTTOM LOAD SILLS



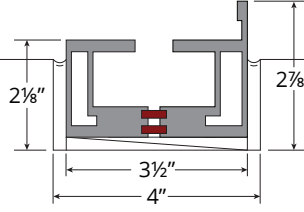
Recessed with Ramps*

Limited air & water performance similar to commercial door because of tank.
ADA compliant with sill fill.



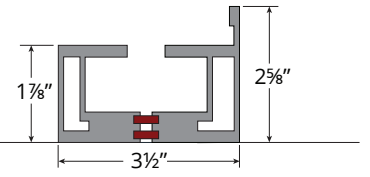
Recessed Flush*

Water: 9psf.
ADA compliant with sill fill.



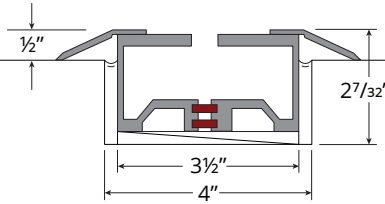
Recessed Standard*

Water: 12psf out-fold,
9psf in-fold.



Standard*

Water: 12psf out-fold,
9psf in-fold.

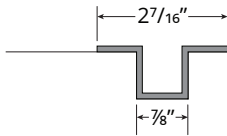


G3 Stepped

Limited air & water performance similar to commercial door because of tank.
ADA compliant.

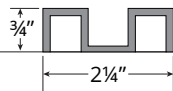
*Florida Impact Tested Options

TOP LOAD ONLY SILLS



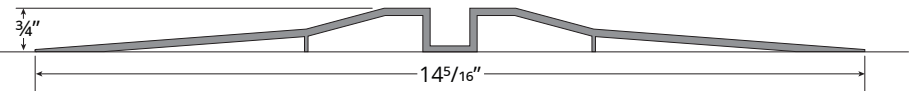
Recessed Flush Hat

Limited air & water performance.
ADA compliant with sill fill.



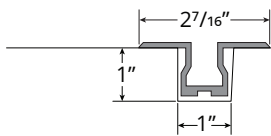
Surface Mount

Limited air & water performance.



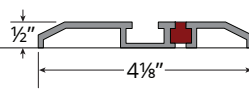
ADA Surface Mount

Limited air & water performance.



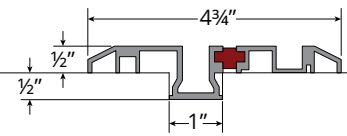
ADA Recessed Flush Hat

Limited air & water performance.



Thermal ADA**

Limited air & water performance.



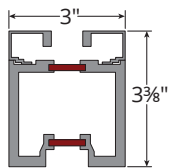
Recessed Thermal ADA

Limited air & water performance.

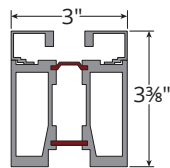
Note: Center Pivot Folding Glass Walls will get limited air and water performance.

** 8' maximum panel height, 16' maximum frame width, 3/32" maximum allowable header deflection.

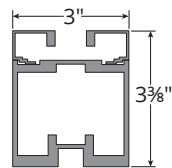
VERTICAL & HORIZONTAL RAILS



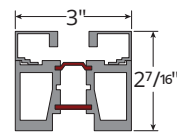
Standard Thermal



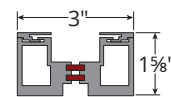
LT Thermal



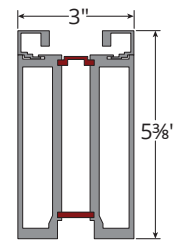
LT Nonthermal



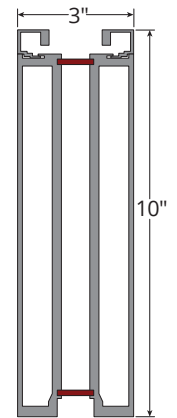
LT Narrow Thermal



Extra Narrow Thermal
(Vertical)

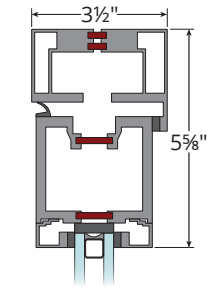


Stretch Rail

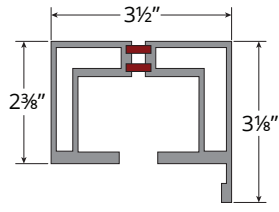


10" Bottom Rail

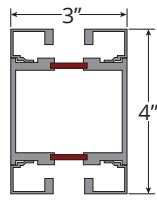
HEADS



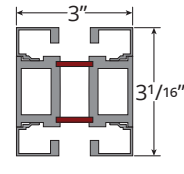
Standard Head & Frame Detail



1 1/2" Dual Wheel Head



Standard Mullion



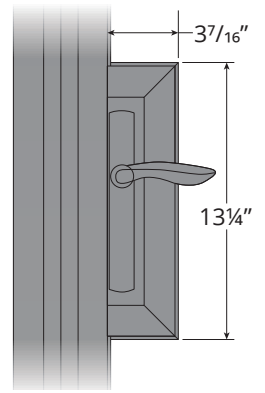
Narrow Mullion

MULLIONS

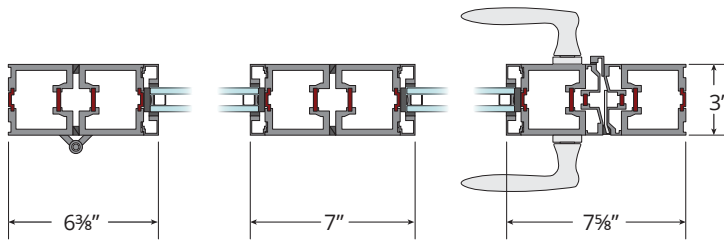
(True Divided Lites)

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

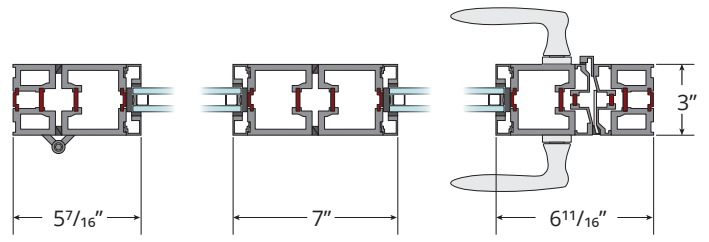
LOCK BOX



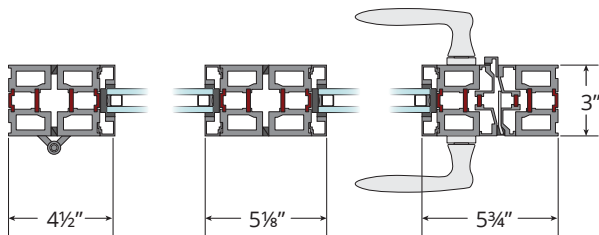
JAMB DETAILS



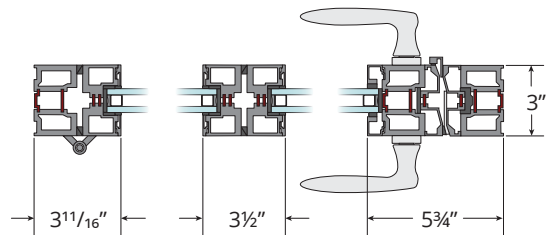
Standard G3 Jamb & Frame



Narrow G3 Jamb & Standard G3 Frame



Narrow G3 Jamb & Frame

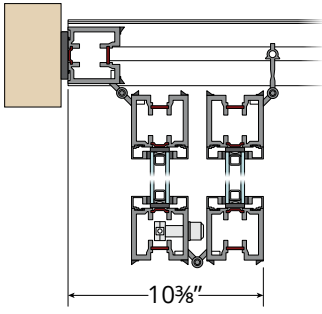


Xtra Narrow G3 Jamb & Frame

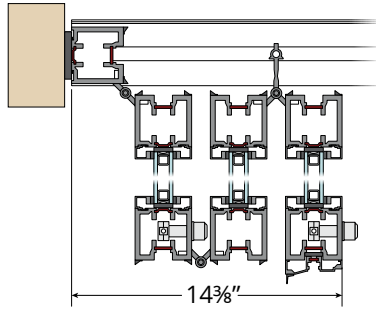
Top and bottom horizontals unable to utilize narrow or xtra narrow framing. Options dependent upon desired size and engineering requirements.

STACKED WALL DIMENSIONS

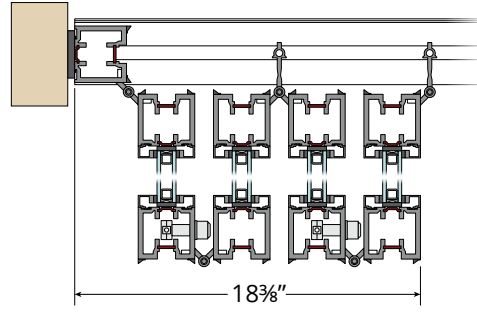
Standard Jamb. Subtract $\frac{15}{16}$ " for Narrow Jamb.



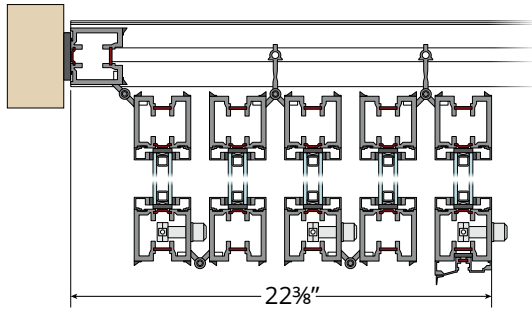
2 Panels



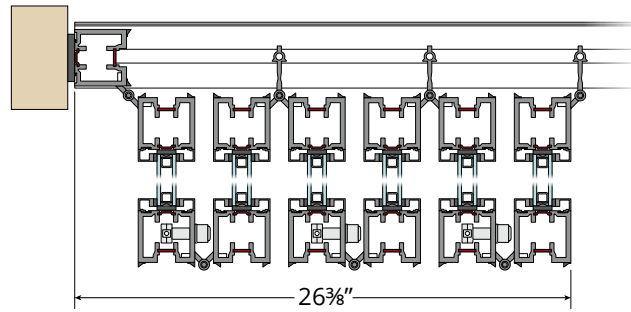
3 Panels



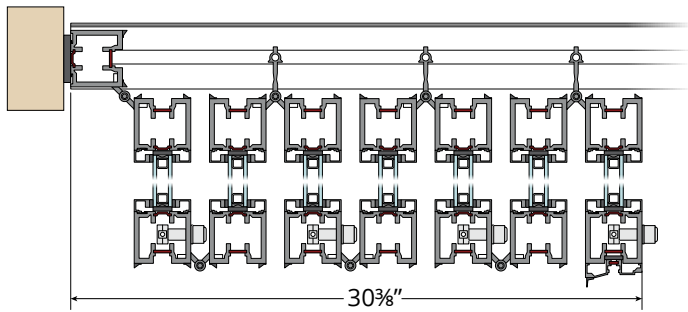
4 Panels



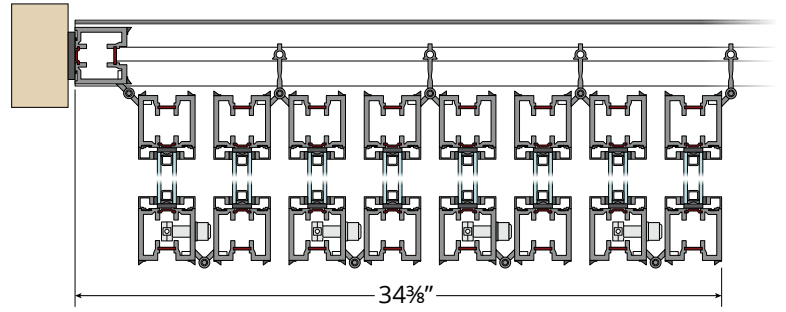
5 Panels



6 Panels



7 Panels



8 Panels