

CENTER-PIVOT FOLDING GLASS WALL SYSTEMS



A unique solution with endless possibilities

Center Pivot Bifold Doors function just like our standard Folding Glass Walls, with the exception of how they connect to the head and sill. With the load being displaced at the head, the trolley and idler are connected at the center point of the panel as they glide and pivot along the track(s). This unit allows the user to split the difference of where the panels are stored in the open position.

FEATURES

OPERATION:

- Top load
- Endless configurations possible
- Swing door integration
- No corner post setup available

FRAMING:

- Aluminum or wood
- Frame widths: 3 $\frac{3}{8}$ ", 2 $\frac{7}{16}$ ", and 1 $\frac{5}{8}$ " (G3 only)
- Up to 3' x 12' 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 $\frac{3}{16}$ "

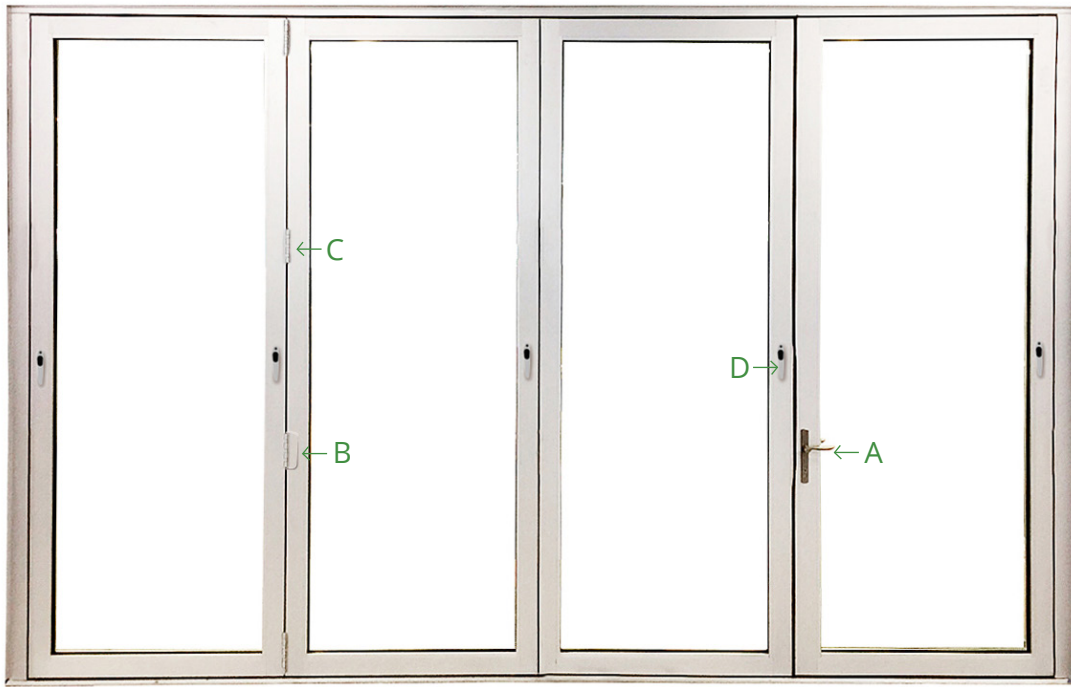
FINISHES:

- 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)
 - 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*



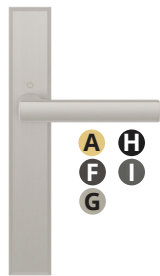
Toronto
(Standard)

A F
C G
E H



Atlanta

F G



Dallas

A H
F I
G



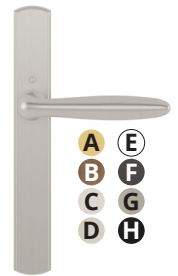
München

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: 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

* Segmented Radius only.

** Additional cost. Not compatible with Extra Narrow systems.

Pull Hardware, Hinge, and Lock Finish Options



Custom color options are also available upon request.

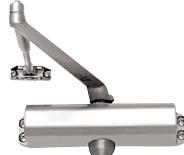
Closer, Catch, & Limiter



D Series 7414 Door Closer



D Series TS93 Door Closer



C Series PR82 Door Closer



Standard Adjustable Door Catch



Extended Adjustable Door Catch*



Door Limiter

Door Closer Finishes: Aluminum Painted, Bronze, and Black

Adjustable Door Catch Finishes: Clear Anodized and Dark Bronze Anodized

* For Panic Bar applications

Commercial Panic Hardware Options



Exterior Entry Trim Square



Mortise Panic



Impact Panic*



Push/Pull



Push Only

Wire Pulls

Passive Hardware Sets



Square Commercial



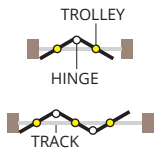
Toronto

* G2 only. Concealed vertical rod.

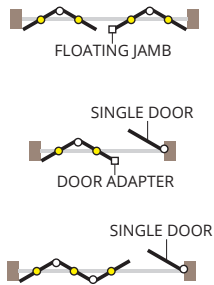
Please Note: All hardware is subject to vendor availability. Custom finishes may be available upon request at additional lead time and/or cost. Solar Innovations® reserves the right to discontinue any hardware option at any time. Please be sure to visit solarinnovations.com for additional product information.

CONFIGURATIONS/OPERATION EXAMPLES

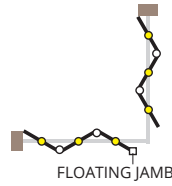
Single Direction (All Wall)



Split Wall



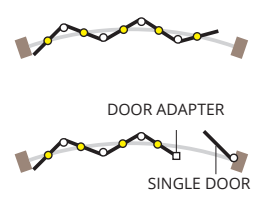
90 Degree No Post



135 Degree No Post

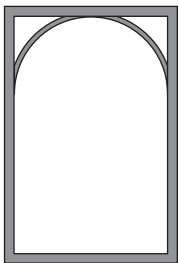


Segmented Radius

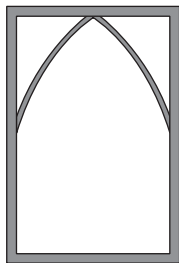


Custom configurations available upon request.

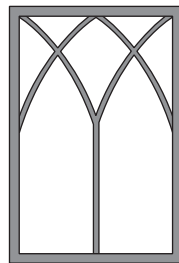
GRID OPTIONS



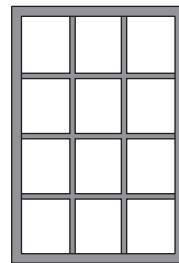
Arched Grid



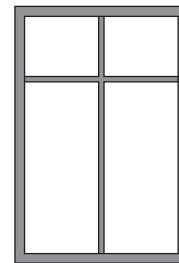
Gothic Grid



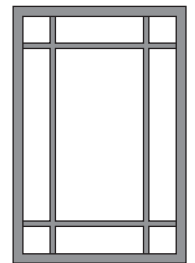
Double Gothic Grid



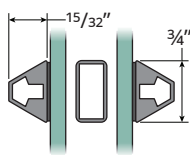
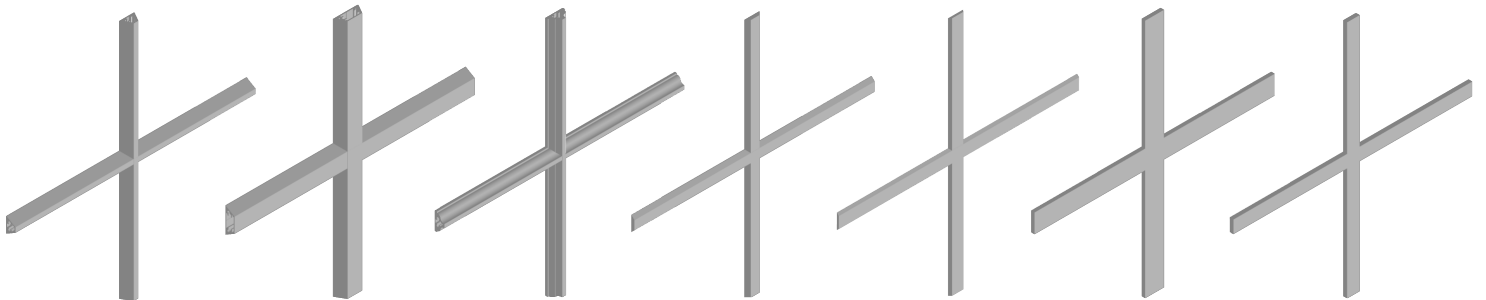
Traditional Grid



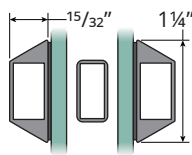
Cross Grid



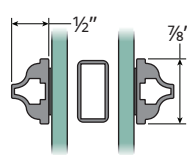
English Grid



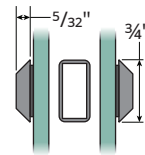
Traditional with SDL



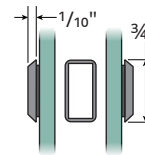
Wide Traditional with SDL



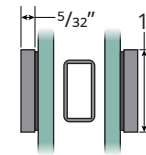
Ogee with SDL



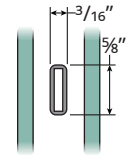
Low Profile with SDL



Thin Low Profile with SDL

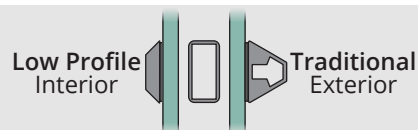


Simulated Steel with SDL



Interior Muntin in Insulated Glass

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



Low Profile Interior

Traditional Exterior

FINISH OPTIONS

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



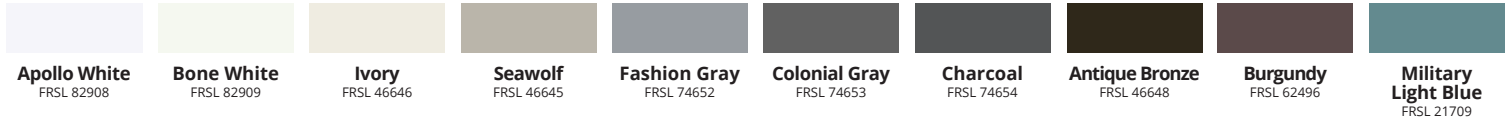
Anodized Additional cost



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.

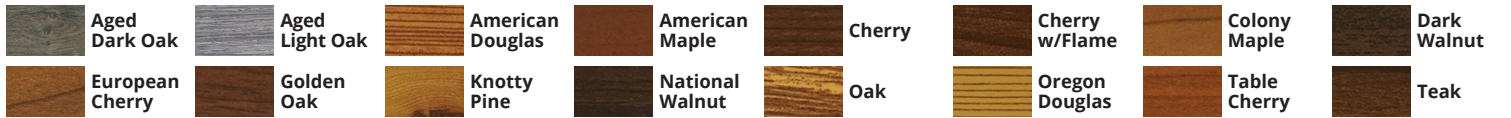
Metal Clad STANDARD* (EXTERIOR ONLY)



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.



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%

SILL COMPARISONS

Folding Glass Wall Sill Type	Application	Top Load	Bottom Load	Recessed	Surface Mount	ADA Compliant	Water Performance	Max. Panel Height	Max. Frame Width	Max. Header Deflection	
G2 System											
	G2 Recessed with Ramps	Interior or Exterior	Yes	No	Yes	No	Yes, with Sill Fill	Limited*	Varies	Varies	3/16"
	G2 Recessed Flush	Interior or Exterior	Yes	No	Yes	Yes	Yes, with Sill Fill	Limited*	Varies	Varies	3/16"
G3 System											
	G3 Recessed with Ramps	Interior or Exterior	Yes	No	Yes	No	Yes, with Sill Fill	Limited*	Varies	Varies	3/16"
	G3 Recessed Flush	Interior or Exterior	Yes	No	Yes	Yes	Yes, with Sill Fill	Limited*	Varies	Varies	3/16"
	G3 Stepped with Ramps	Interior or Exterior	Yes	No	Yes	No	Yes	Limited*	Varies	Varies	3/16"
Both G2 & G3 Systems											
	Recessed Flush Hat	Interior or Exterior	Yes	No	Yes	No	Yes, with Sill Fill	Limited*	10' 6"	Varies	3/16"
	ADA Recessed Flush Hat	Interior or Exterior	Yes	No	Yes	No	Yes	Limited*	10'	Varies	3/16"
	Surface Mount	Interior or Exterior	Yes	No	No	Yes	No	Limited*	10' 6"	Varies	3/16"
	ADA Surface Mount	Interior or Exterior	Yes	No	No	Yes	Yes	Limited*	10' 6"	Varies	3/16"
	Thermal ADA	Interior or Exterior	Yes	No	No	Yes	Yes	Limited*	8'	16'	3/32"
	Recessed Thermal ADA	Interior or Exterior	Yes	No	Yes	No	Yes	Limited*	10'	Varies	1/4"

*Limited air and water performance similar to a commercial door

G2 FOLDING GLASS WALLS



G2 Thermal System

G2 Aluminum Folding Glass Wall Systems are a great way to open your environment to the outdoors. 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.

Panels

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

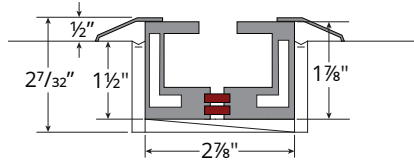
G2 Non-Thermal System

G2 Non-Thermal Aluminum Folding Glass Wall Systems are ideal for mild climates and indoor uses. This system is popular for conference rooms, interior commercial entryways, and 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.

Glazing

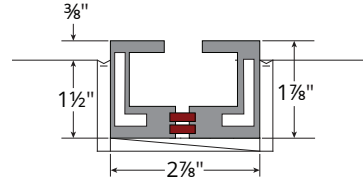
- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from 3/16" to 1 1/4"

SILLS



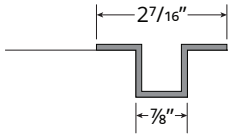
Recessed with Ramps

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



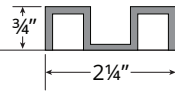
Recessed Flush

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



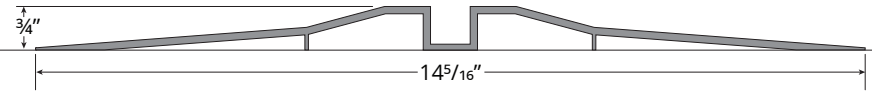
Recessed Flush Hat

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



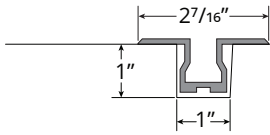
Surface Mount

Limited air & water performance.



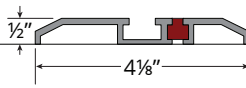
ADA Surface Mount

Limited air & water performance.



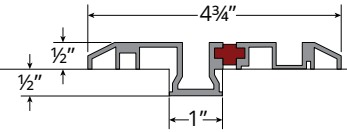
ADA Recessed Flush Hat

Limited air & water performance.



Thermal ADA**

Limited air & water performance.



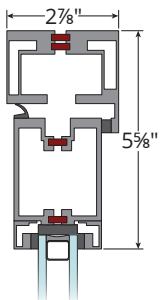
Recessed Thermal ADA

Limited air & water performance.

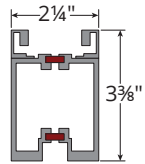
Note: Center Pivot Folding Glass Walls will get limited air and water performance.

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

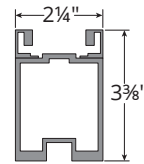
VERTICAL & HORIZONTAL RAILS



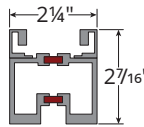
Head Detail



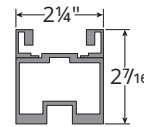
Standard Thermal



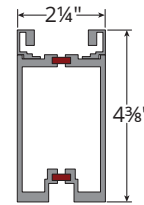
Standard Non-Thermal



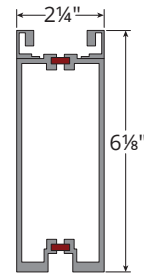
Narrow Thermal



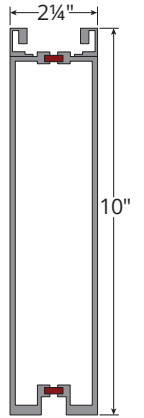
Narrow Non-Thermal



Stretch Rail

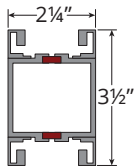


Heavy Thermal

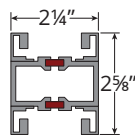


10" Bottom Rail

MULLIONS (True Divided Lites)



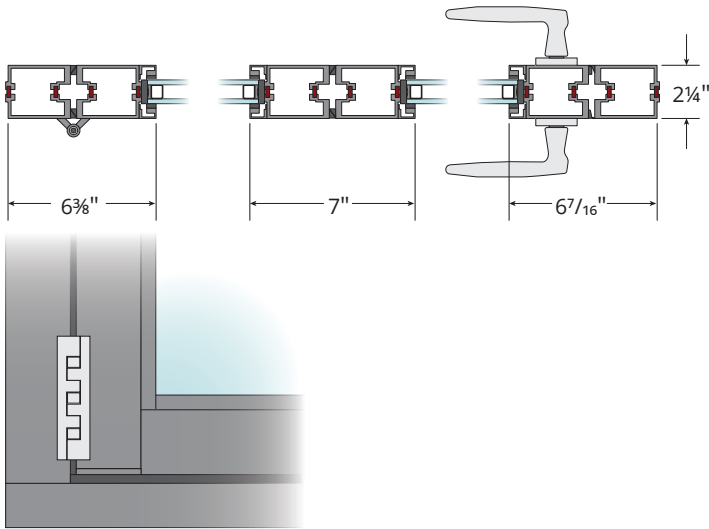
Standard Mullion



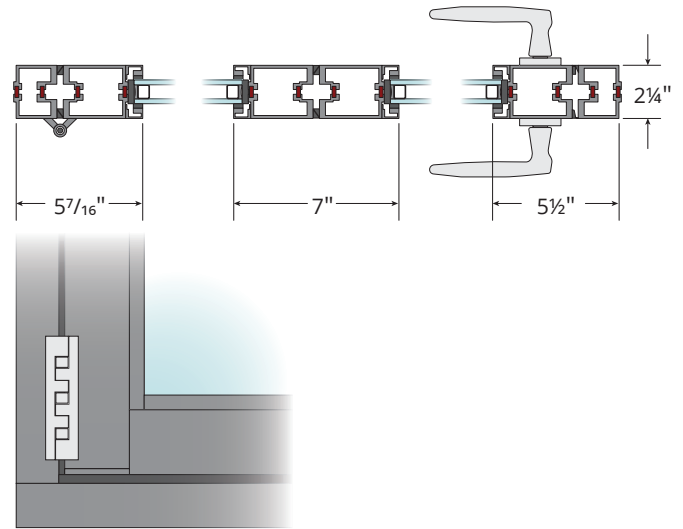
Narrow Mullion

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

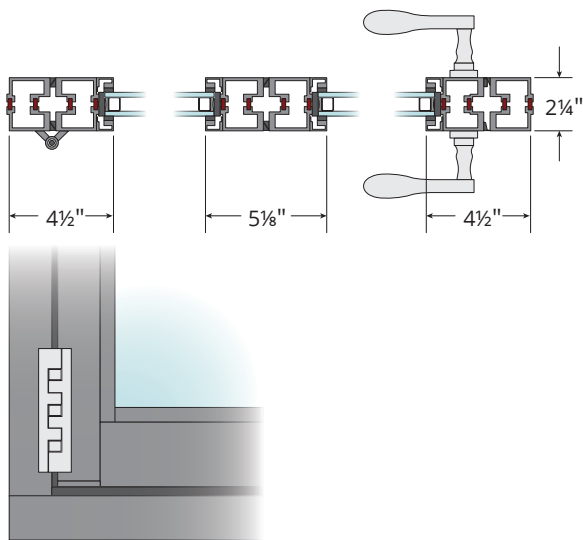
JAMB DETAILS



Regular G2 Jamb & Frame



Narrow G2 Jamb & Regular G2 Frame



Narrow G2 Jamb & Frame

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 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 extra 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 12'; larger panel options may be available depending on application

G3 Non-Thermal System

The G3 Non-Thermal 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

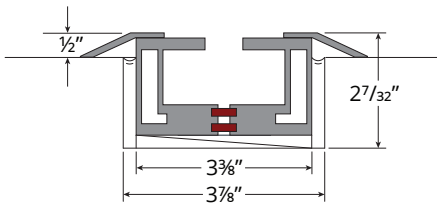
Our G3 Extra Narrow Marine Glazed Folding Glass Wall System optimizes the view of the outdoors by minimizing the vertical stiles. It uses a patented design to combine vertical marine glazing with horizontal stop glazing in order to create a much narrower vertical frame than conventional stop glazed doors.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



Glazing

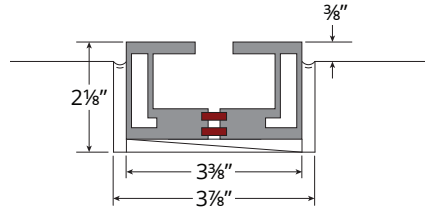
- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from 1/4" to 1 1/2"

SILLS



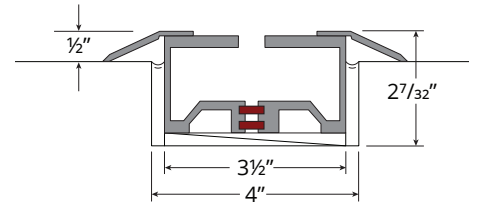
Recessed with Ramps

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



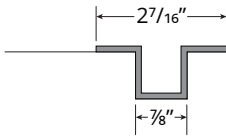
Recessed Flush

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



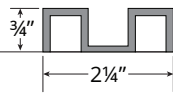
G3 Stepped

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



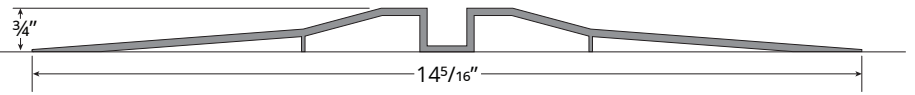
Recessed Flush Hat

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



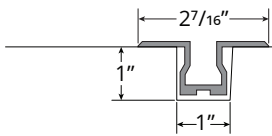
Surface Mount

Limited air & water performance.



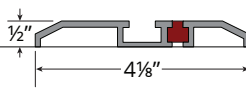
ADA Surface Mount

Limited air & water performance.



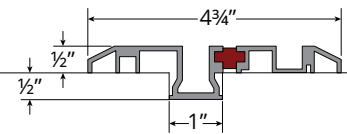
ADA Recessed Flush Hat

Limited air & water performance.



Thermal ADA**

Limited air & water performance.



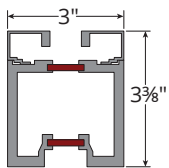
Recessed Thermal ADA

Limited air & water performance.

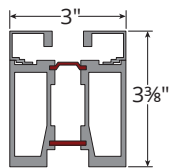
Note: Center Pivot Folding Glass Walls will get limited air and water performance.

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

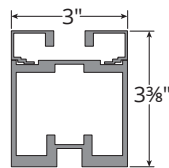
VERTICAL & HORIZONTAL RAILS



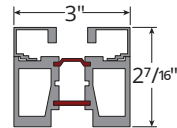
Standard Thermal



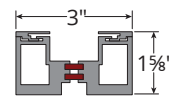
LT Thermal



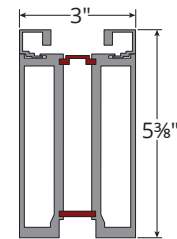
LT Non-Thermal



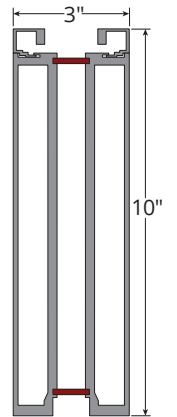
LT Narrow Thermal



Extra Narrow Thermal (Vertical)

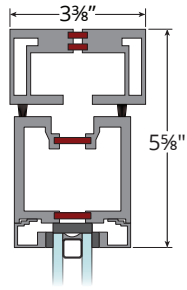


Stretch Rail

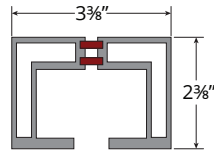


10" Bottom Rail

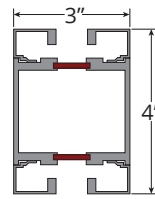
HEADS



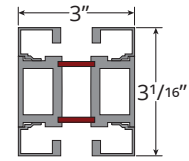
Standard Head & Frame Detail



1 1/2" Dual Wheel Head



Standard Mullion



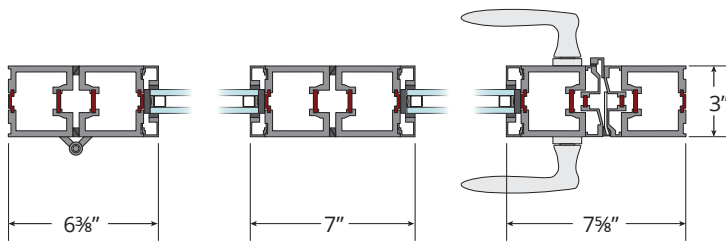
Narrow Mullion

MULLIONS

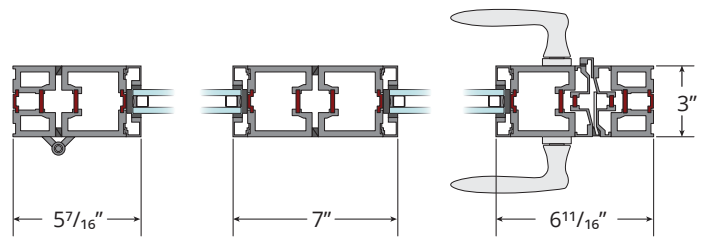
(True Divided Lites)

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

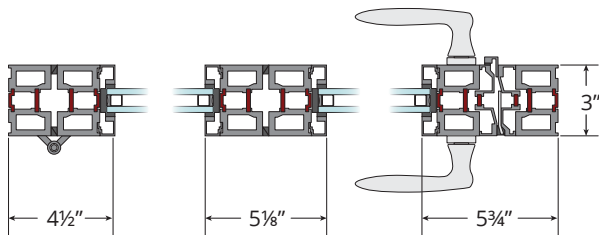
JAMB DETAILS



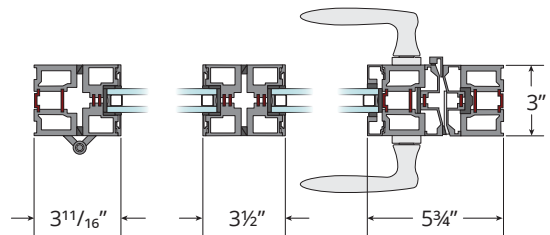
Standard G3 Jamb & Frame



Narrow G3 Jamb & Standard G3 Frame



Narrow G3 Jamb & Frame



Extra Narrow Frame & LT Narrow Jamb

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