

MARINE GLAZED (EXTRA NARROW) FOLDING GLASS WALL SYSTEMS



The narrowest stiles in the industry

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



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 or wood
- Frame width: 1½"
- 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 ¾" to 1½"

PERFORMANCE:

- Air and water tested options

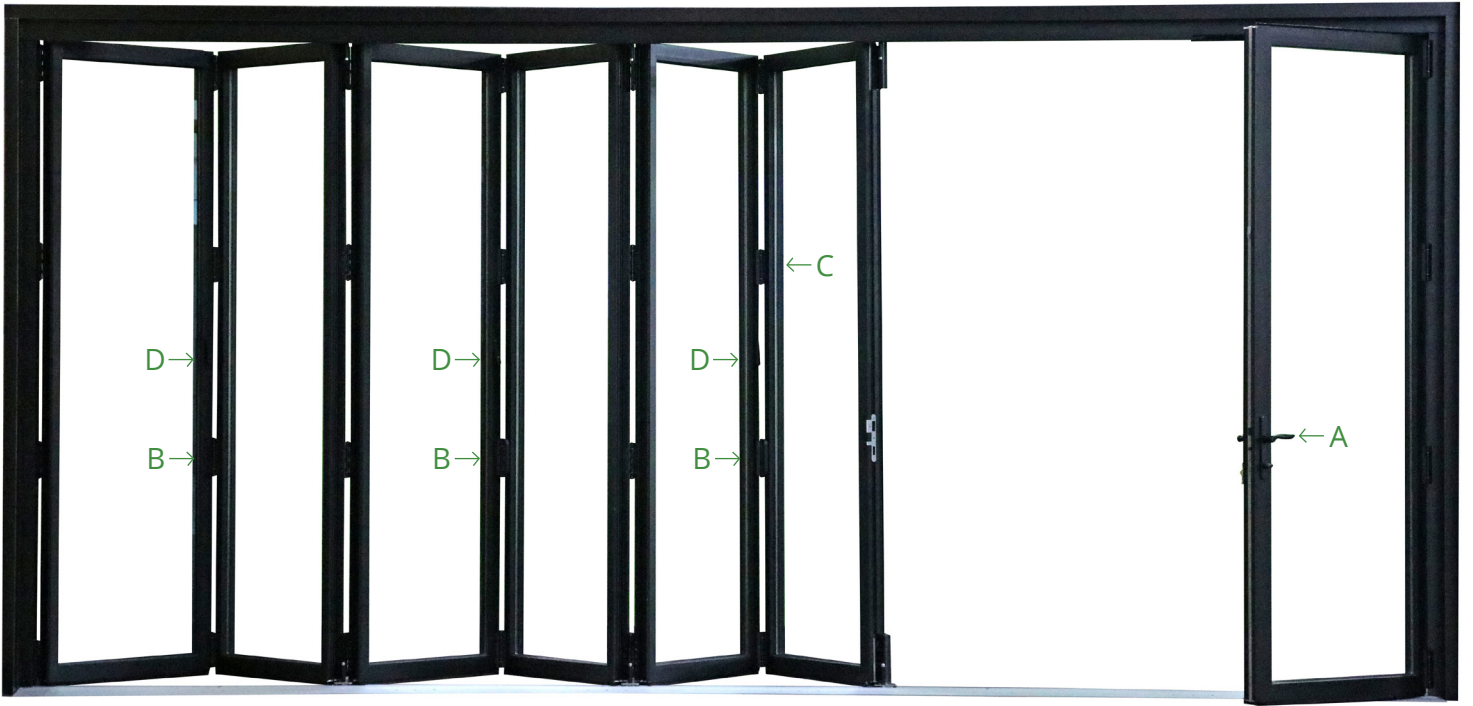
FINISHES:

- 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)
 - 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

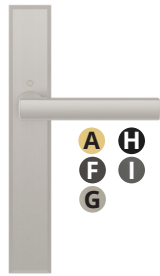
SOLID BRASS — COASTAL APPLICATIONS*



Toronto
(Standard)



Atlanta



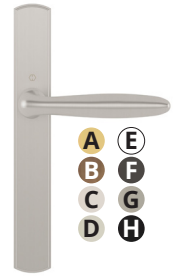
Dallas



München



Ródos



Verona

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.

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



Extruded Hinge Pull
(Out-Fold)



Low Profile Handle
(In-Fold)

C: Hinges



Semi-Concealed Hinge

D: Locks



Two-Point Locking Handle



Thumb Turn Lock



Standard Flush Bolt

Pull Hardware, Hinge, and Lock Finish Options



SI White



SI Bronze



Class I Clear Anodized



Dark Bronze Anodized

Custom color options are also available upon request.

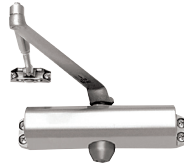
Closer, Catch, & Limiter



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

* Cannot be used with extra narrow frame. ** 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.

Panels

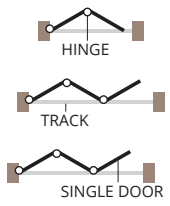
- Minimum panel width: 24"; smaller panels may be available based upon engineering approval
- Panel size up to 3' x 12'; larger panel options may be available depending on application

Glazing

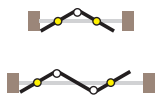
- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or 1" solid panel infill

CONFIGURATIONS/OPERATION EXAMPLES

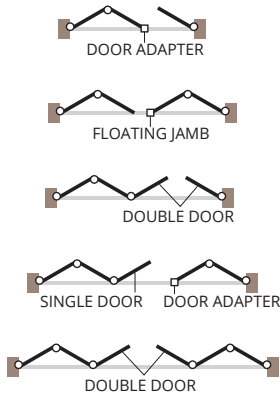
Single Direction (All Wall)



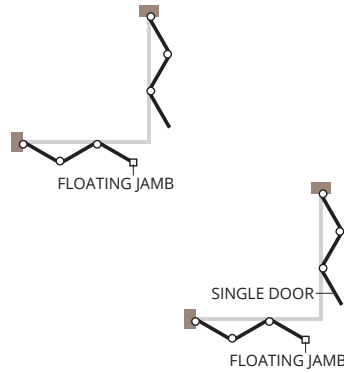
Center Pivot



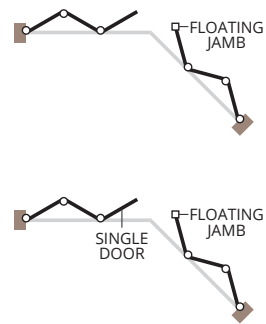
Split Wall



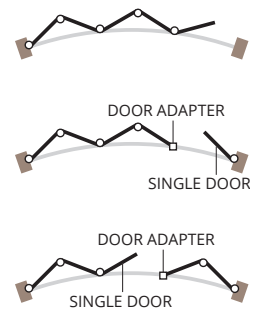
90 Degree No Post



135 Degree No Post

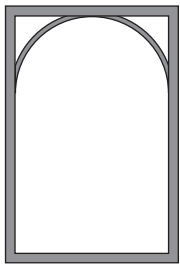


Segmented Radius

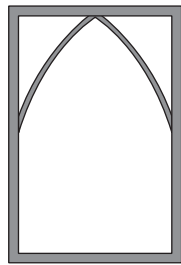


Custom configurations available upon request.

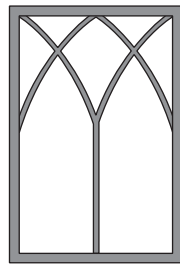
GRID OPTIONS



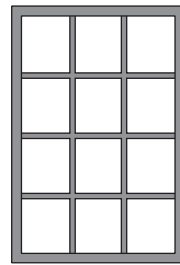
Arched Grid



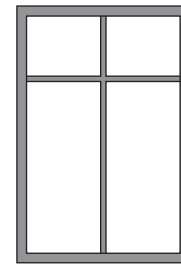
Gothic Grid



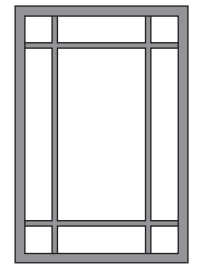
Double Gothic Grid



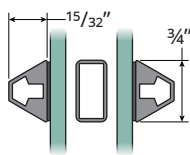
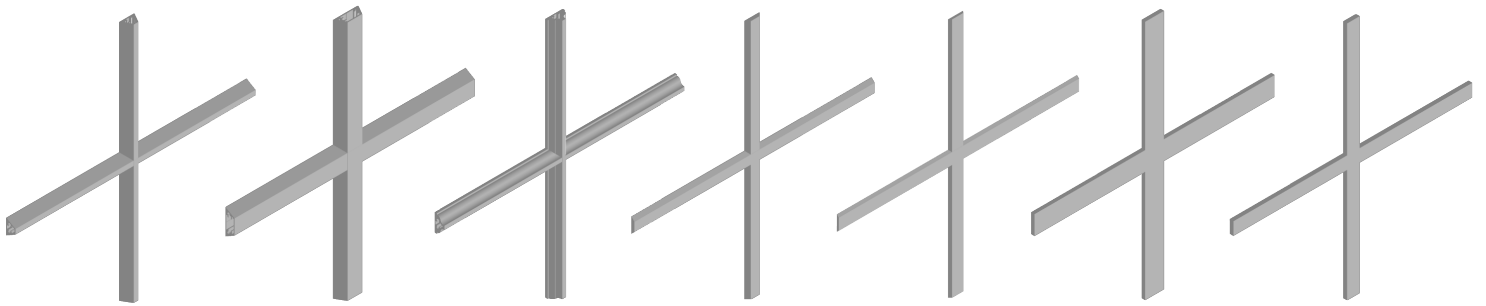
Traditional Grid



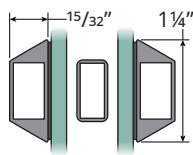
Cross Grid



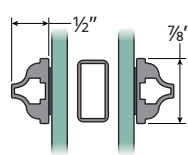
English Grid



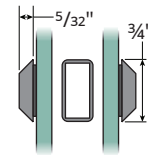
Traditional with SDL



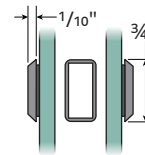
Wide Traditional with SDL



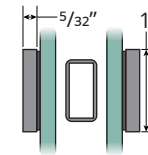
Ogee with SDL



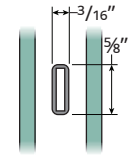
Low Profile with SDL



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.



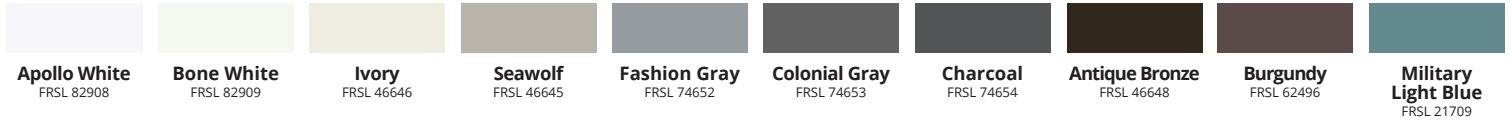
Anodized Additional cost



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.

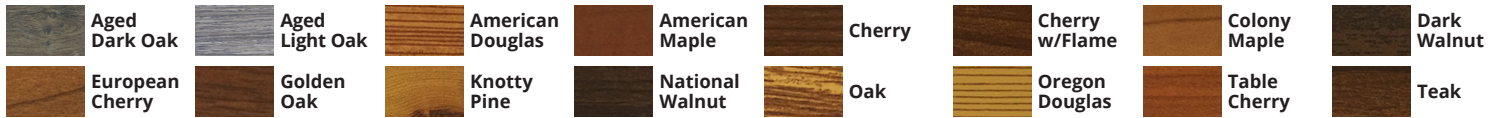
Metal Clad STANDARD* (EXTERIOR ONLY)



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

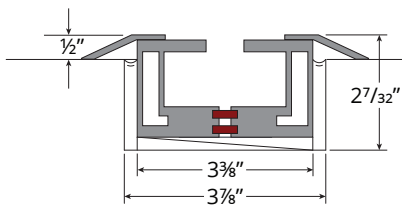
	Overall Unit Thickness	U-Value	R-Value	Solar Heat Gain Coefficient	Visible Light Transmission	Reflectance Out	Reflectance In	UV Transmittance
MONOLITHIC								
Clear	¼"	1.02	0.91	0.82	88%	8%	8%	62%
DOUBLE GLAZED Outside Lite/Inside Lite								
Clear/Clear	1"	0.46	2.17	0.78	82%	15%	15%	58%
180/Clear	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	
	G3 Recessed with Ramps	Interior or Exterior	Yes	Yes	Yes	No	Yes, with Sill Fill	Limited*	Varies	Varies	3/16"
	G3 Recessed Flush	Interior or Exterior	Yes	Yes	Yes	Yes	Yes, with Sill Fill	9psf	Varies	Varies	3/16"
	G3 Recessed Standard	Interior or Exterior	Yes	Yes	Yes	No	No	12psf Outfold 9psf Infold	Varies	Varies	3/16"
	G3 Standard	Interior or Exterior	Yes	Yes	No	Yes	No	12psf Outfold 9psf Infold	Varies	Varies	3/16"
	G3 Stepped with Ramps	Interior or Exterior	Yes	Yes	Yes	No	Yes	Limited*	Varies	Varies	3/16"
	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"

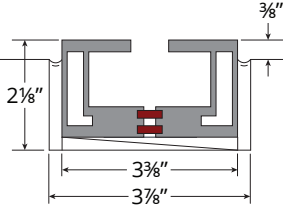
*Limited air and water performance similar to a commercial door

TOP & BOTTOM LOAD SILLS



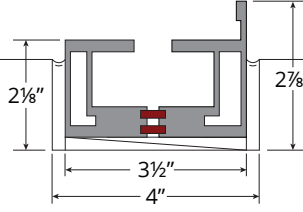
Recessed with Ramps

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



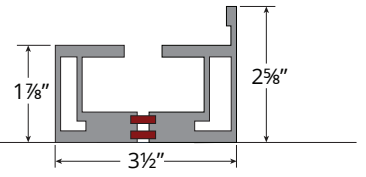
Recessed Flush

Water: 9psf.
ADA compliant with sill fill.



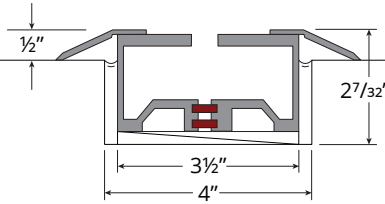
Recessed Standard

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



Standard

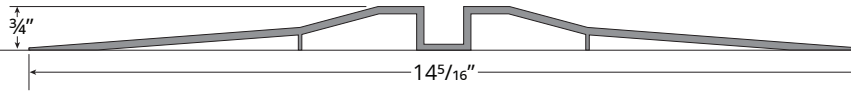
Water: 12psf out-fold,
9psf in-fold.



G3 Stepped

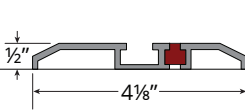
Limited air & water performance similar to commercial door because of tank.
ADA compliant.

TOP LOAD ONLY SILLS



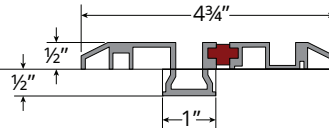
ADA Surface Mount

Limited air & water performance.



Thermal ADA**

Limited air & water performance.



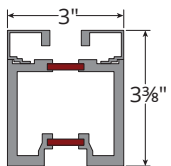
Recessed Thermal ADA

Limited air & water performance.

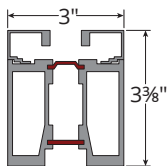
** 8' maximum panel height, 16' maximum frame width, 3/32" maximum allowable header deflection.

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

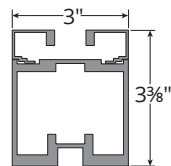
VERTICAL & HORIZONTAL RAILS



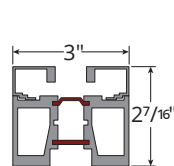
Standard Thermal



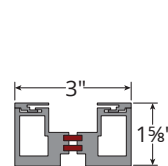
LT Thermal



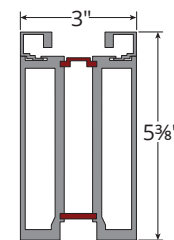
LT Non-Thermal



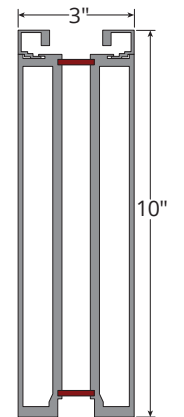
LT Narrow Thermal



Extra Narrow* Thermal
(Vertical)



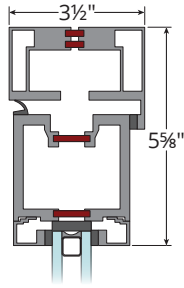
Stretch Rail



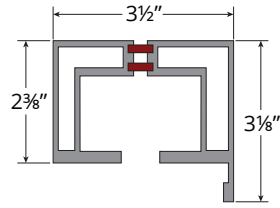
10" Bottom Rail

* Extra Narrow Thermal frames cannot support door hardware.

HEADS



Standard Head & Frame Detail



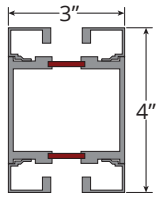
1 1/2" Dual Wheel Head



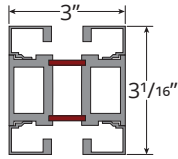
MULLION

(True Divided Lites)

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

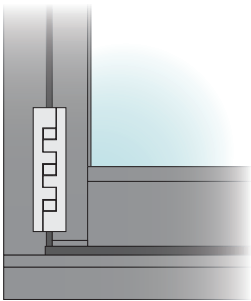
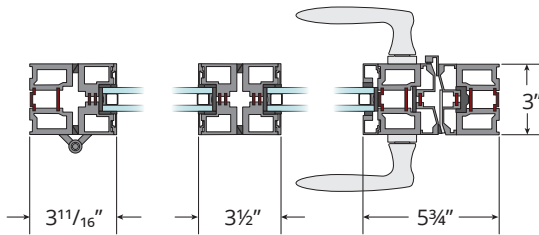


Standard Mullion



Narrow Mullion

JAMB DETAILS

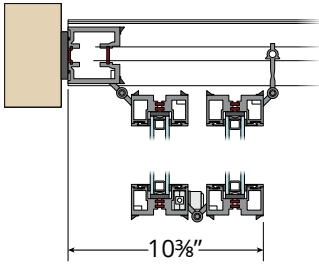


Extra Narrow G3 Panel Vertical and G3LT Narrow Jamb Frame

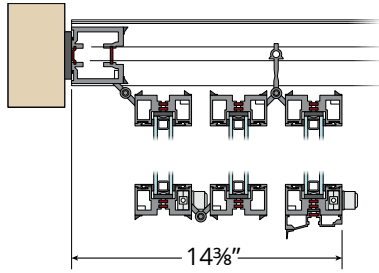
Top and bottom horizontals unable to utilize narrow or xtra narrow framing.
Options dependent upon desired size and engineering requirements.

STACKED WALL DIMENSIONS

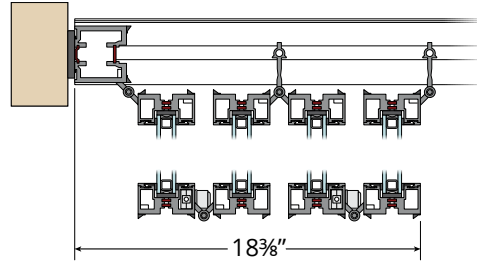
Standard Jamb. Subtract $1\frac{5}{16}$ " for Narrow Jamb.



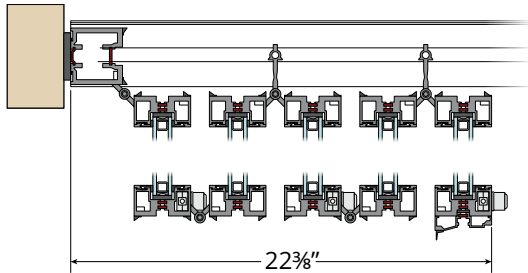
2 Panels



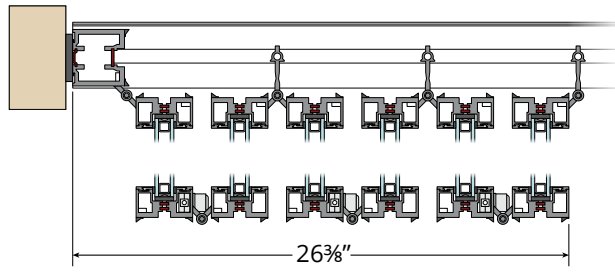
3 Panels



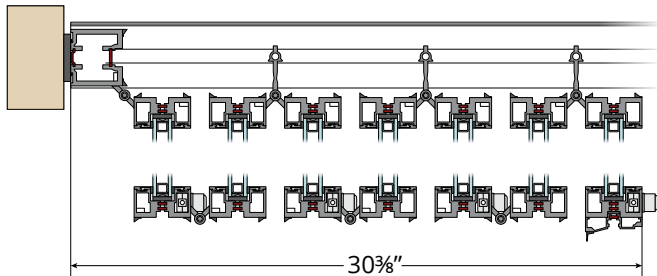
4 Panels



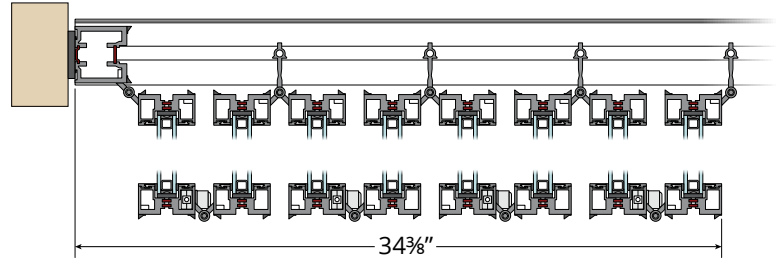
5 Panels



6 Panels



7 Panels



8 Panels