

WOOD FOLDING GLASS WALLS



SOLAR INNOVATIONS®
ARCHITECTURAL GLAZING SYSTEMS

A warm, traditional solution

Wood Folding Glass Wall Systems have been part of the Solar Innovations® product line since their introduction to the industry. Folding Glass Walls, also known as bi-fold doors or accordion-style doors, can accommodate a large number of panels and configurations. Wood Folding Glass Walls can be painted, stained, sanded, and re-finished multiple times throughout the product's life cycle. To ensure product longevity, Solar Innovations® recommends using the wood system on interior applications to avoid weather-related damage to the wood. For exterior applications, an aluminum cladding option is recommended, providing a warm, wood interior with a sturdy, weather-resistant exterior.

FEATURES

OPERATION:

- Top or bottom load
- In-fold or out-fold operation
- Endless configurations possible
- Swing door integration

FRAMING:

- Wood glulam
- 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
- Multiple sill designs, including ADA compliant ramps

GLAZING:

- Designed to accommodate almost any glazing infill including glass, acrylic, polycarbonate and solid panels, with thicknesses of 1/4", 7/16", 1", and 1 3/16"

PERFORMANCE:

- Air, water, and structural tested

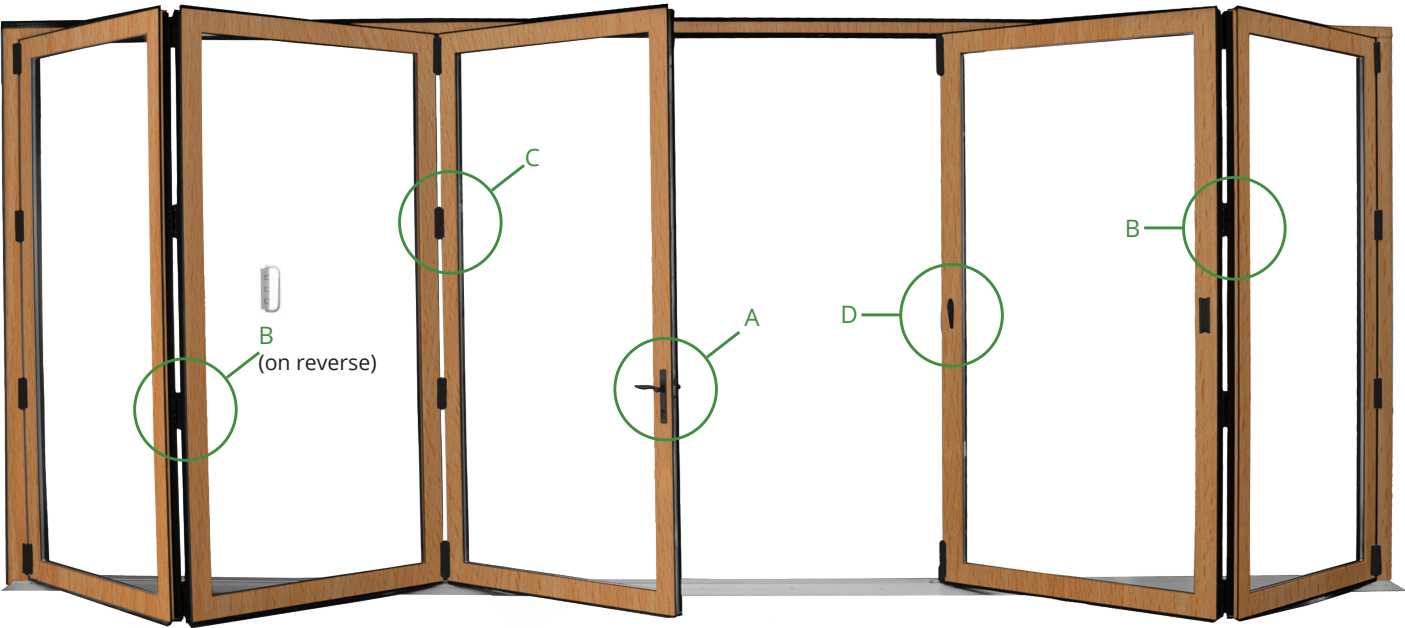
FINISHES:

- Scantling Wood Species:
 - Standard: Red Oak, White Ash, Hard Maple, White Oak
 - Designer: Douglas Fir, Cherry, Sepele Mahogany, Walnut
- Aluminum Cladding Finishes:
 - AAMA 2603: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
 - AAMA 611 Class I Anodized: Clear, Dark Bronze
 - AAMA 2604 & 2605: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
 - Powder coat finish: AAMA 2604, 2605
 - Fluoropolymer (50% or 70%): AAMA 2604, 2605
 - 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*



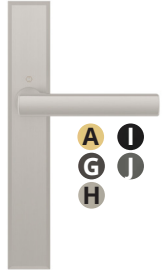
Toronto
Standard

Finish Options: A Polished Brass, C Brushed Chrome*, E Oil Rubbed Brass, F White, G Matte Black, H Satin Nickel*, I Rustic Umber, J Dark Bronze Metallic




Atlanta

Finish Options: G Matte Black, H Satin Nickel*, I Rustic Umber, J Dark Bronze Metallic




Dallas

Finish Options: A Polished Brass, C Brushed Chrome*, E Oil Rubbed Brass, F White, G Matte Black, H Satin Nickel*, I Rustic Umber, J Dark Bronze Metallic



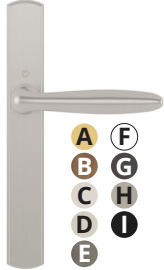
München

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



Ródos

Finish Options: B Antique Brass, C Brushed Chrome*, E Oil Rubbed Brass, F White, G Matte Black, H Satin Nickel*, I Rustic Umber, J Dark Bronze Metallic



Verona

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

Finish Options: Pure White, Pure Silver



London

Finish Options: Pure White, Pure Silver

ZAMAC/BRASS — INLAND APPLICATIONS (G2 ONLY)



Allegro

Finish Options: Satin Chrome, Polished Chrome*, Polished Brass, Antique Brass, Oil Rubbed Bronze, Dark Bronze PC



Torino

Finish Options: Black PC, White PC, Satin Nickel



Venice

Finish Options: Dark Bronze, Pewter

* Not available for Torino

FOR "KEYED ALIKE" APPLICATIONS



AR2190

Finish Options: 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.

PANELS

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

GLAZING

- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill with thicknesses of 1/4", 7/16", 1", and 1 3/16"

PERFORMANCE

- Water performance up to 9psf, depending on sill choice and configuration
- Structural tested up to a design pressure of 65psf for panel sizes up to 3' 6" x 8'
- Higher water and structural performance available with engineering approval
- Test results available upon request

B: Pull Hardware



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

* Additional cost

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, Dark Bronze Anodized, White Painted, and Bronze Painted.

Commercial Panic Hardware Options



Exterior Entry Trim Square



Mortise Panic*



Push/Pull



Push Only

Wire Pulls

Passive Hardware Sets



Square Commercial

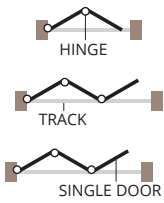


Toronto

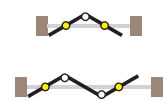
Please Note: All hardware is subject to vendor availability. Custom finishes may be available upon request at additional lead time and/or cost. Solar Innovations® reserves the right to discontinue any hardware option at any time. Please be sure to visit solarinnovations.com for additional product information.

CONFIGURATIONS/OPERATION

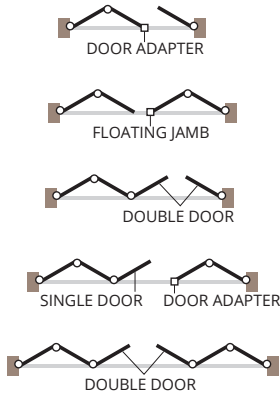
Single Direction (All Wall)



Center Pivot

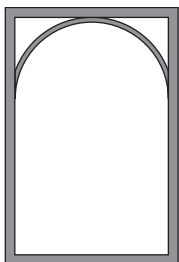


Split Wall

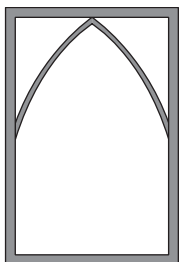


Custom configurations
available upon request.

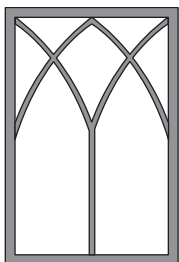
ALUMINUM & WOOD GRID OPTIONS



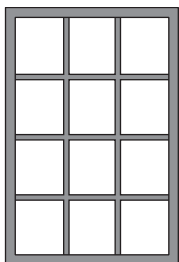
Arched Grid



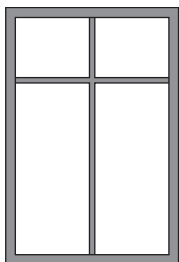
Gothic Grid



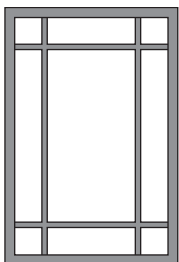
Double Gothic Grid



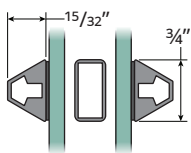
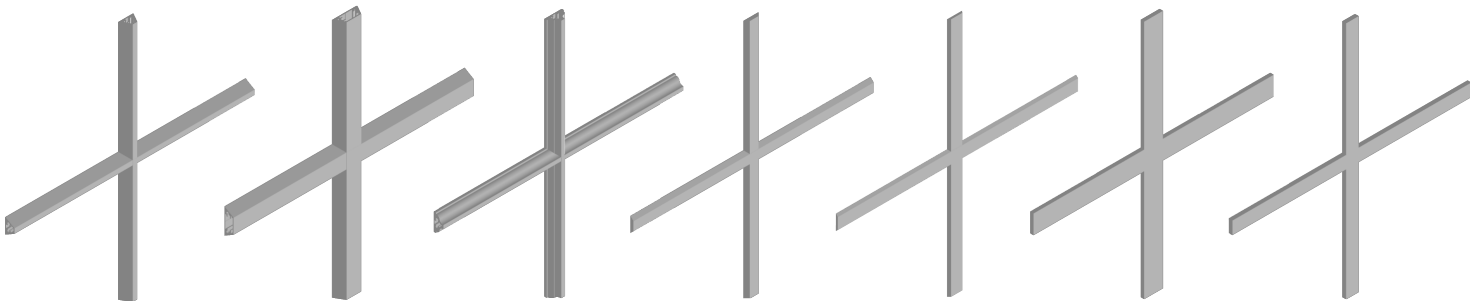
Traditional Grid



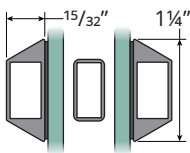
Cross Grid



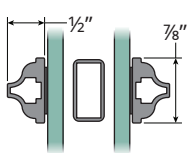
English Grid



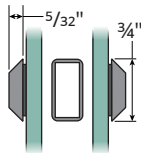
Traditional
with SDL



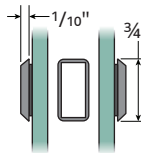
Wide
Traditional
with SDL



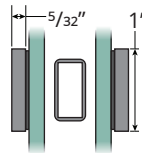
Ogee
with SDL



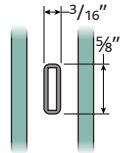
Low Profile
with SDL



Thin Low
Profile
with SDL

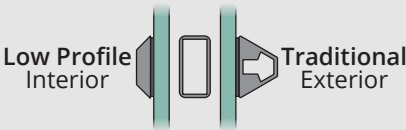


Simulated
Steel
with SDL



Interior
Muntin in
Insulated
Glass

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











Low Profile
Interior







Traditional
Exterior

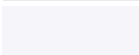









WOOD OPTIONS

Wood/Glulam STANDARD*				Wood/Glulam PREMIUM*			
							
Red Oak	White Ash	Hard Maple	White Oak	Douglas Fir	Cherry	Sapele Mahogany	Walnut

ALUMINUM CLADDING FINISHES

Paint AAMA 2603 (5 year warranty). Finishes available while in stock.						Anodized Additional cost	
							
SI Black	SI White	SI Sandstone	SI Natural Clay	SI Bronze	SI Hartford Green	Class I Clear Anodized	Dark Bronze Anodized

Powder Coat Solids STANDARD - AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*					
					
Black FRSL 11618	White FRSL 83247	Sandstone FRSL 46647	Natural Clay FRSL 47591	Bronze FRML 97138	Hartford Green FRSL 32872

Powder Coat Solids PREMIUM - AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*									
									
Apollo White FRSL 82908	Bone White FRSL 82909	Ivory FRSL 46646	Seawolf FRSL 46645	Fashion Gray FRSL 74652	Colonial Gray FRSL 74653	Charcoal FRSL 74654	Antique Bronze FRSL 46648	Burgundy FRSL 62496	Military Light Blue FRSL 21709

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*				
						
Copper	#4 Polished Stainless Steel	Rheinzink Bright Rolled**	Rheinzink Blue Gray**	Rheinzink Graphite Gray**	Brass	Bronze

*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.

TESTING

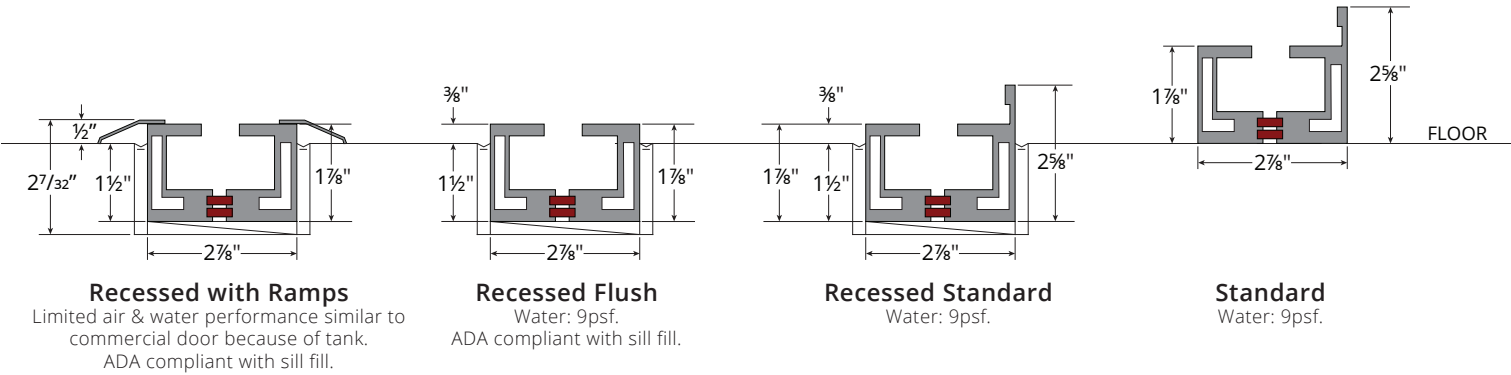
G3 Wood Folding Glass Wall STC Ratings						
Report	Description	Sill	Glazing Thickness	Glazing Makeup	STC	OITC
H8180.01	G3 Wood with Aluminum Cladding	Standard	1 1/16"	¼" Temp, ½" Air, 5/16" Lami w/ .060 Acoustical Interlayer	35	30
H8180.02	G3 Wood without Aluminum Cladding	Standard	1 1/16"	¼" Temp, ½" Air, 5/16" Lami w/ .060 Acoustical Interlayer	36	31

SILL COMPARISONS

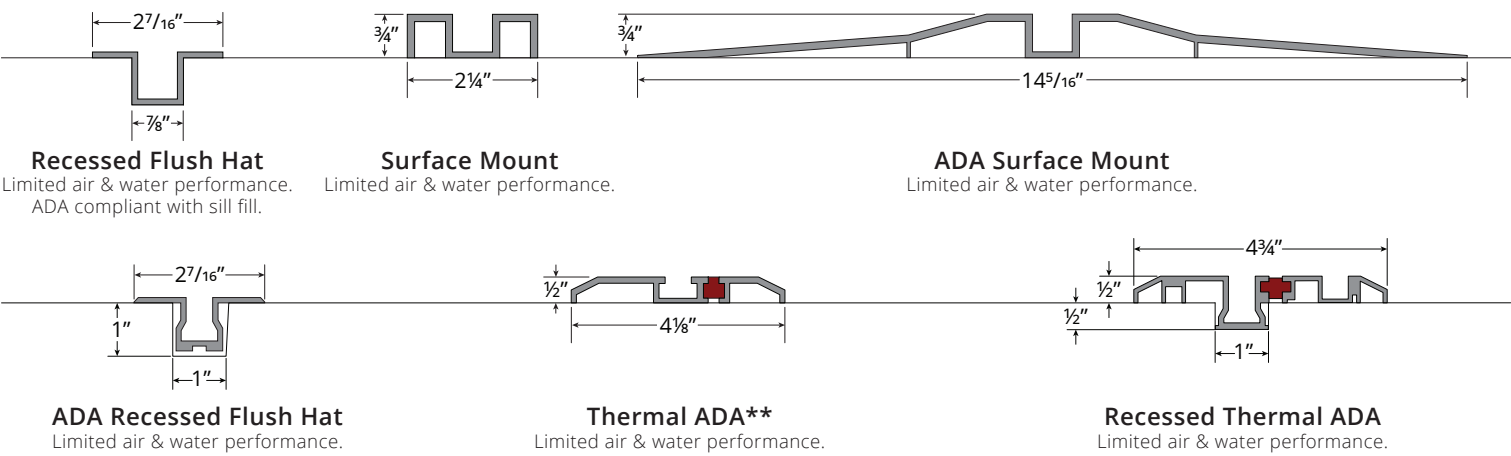
Folding Glass Wall Sill Type	Application	Top Load	Bottom Load	Recessed	Surface Mount	ADA Compliant	Florida Impact Tested	Water Performance	Max. Panel Height	Max. Frame Width	Max. Header Deflection	
G3 System												
	G3 Recessed with Ramps	Interior or Exterior	Yes	Yes	Yes	No	Yes, with Sill Fill	Yes	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"
Both G2 & G3 Systems												
	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	¼"

*Limited air and water performance similar to a commercial door

TOP & BOTTOM LOAD SILLS



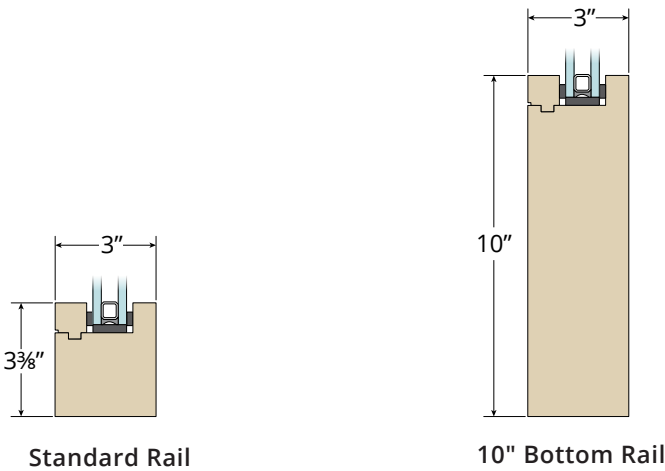
TOP LOAD ONLY SILLS



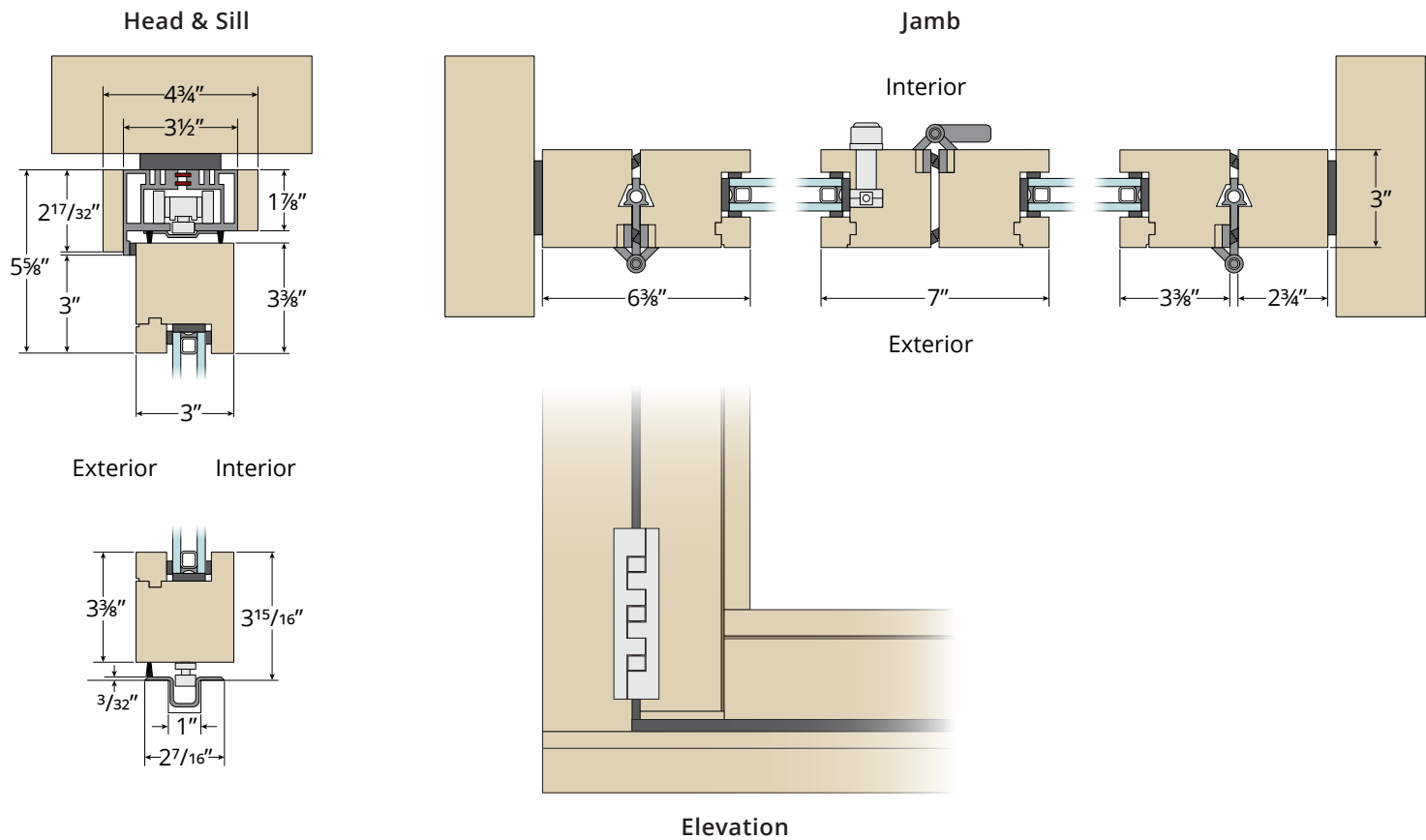
Note: Center Pivot Folding Glass Walls will get limited air and water performance.

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

VERTICAL & HORIZONTAL RAIL OPTIONS



DETAILS



ALUMINUM CLADDING

