

SWING DOOR SYSTEMS



Simplistic Styling with a Contemporary Look.

While swing doors, also known as terrace doors, may be the most common door type, they should not be overlooked as a way to add a contemporary aesthetic to any residential or commercial entryway. As a secure and low-maintenance solution, these hinged door systems are available in single or French door configurations. These doors can be customized a multitude of ways; from finishes, hardware options, stile and rail widths, closers, transoms, sidelites, and glazing types, including privacy glass. With panel sizes up to 5 ft. by 12 ft., these doors can make a dramatic statement in the front or back of the house or business. By choosing Solar Innovations®, you can feel confident that these doors will match the sightlines and finish of any glazed structure or curtain wall system these doors are placed into and/or match any other Solar Innovations® product that is part of the project.

FEATURES

OPERATION:

- Terrace or French doors
- Inswing or outswing

FRAMING:

- Aluminum or wood
- Frame widths: 3 $\frac{3}{8}$ " or 2 $\frac{7}{16}$ "
- Frame depths: 2 $\frac{1}{4}$ " or 3"
- Up to 5' x 12' panels and larger
- Standard, high performance and ADA compliant sills
- Matching sidelites and transoms
- LEED friendly system including recycled content

PERFORMANCE:

- Thermally enhanced utilizing thermal strut or thermal fill & debridge
- Test results available upon request

GLAZING:

- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from $\frac{3}{16}$ " to 1 $\frac{9}{16}$ "

HARDWARE:

- Zero-maintenance semi-concealed corrosion-proof extruded aluminum hinge with stainless steel pin
- Panic hardware, door limiters & door closers
- Multiple hardware styles & finishes
- Multi-point locking hardware for added security

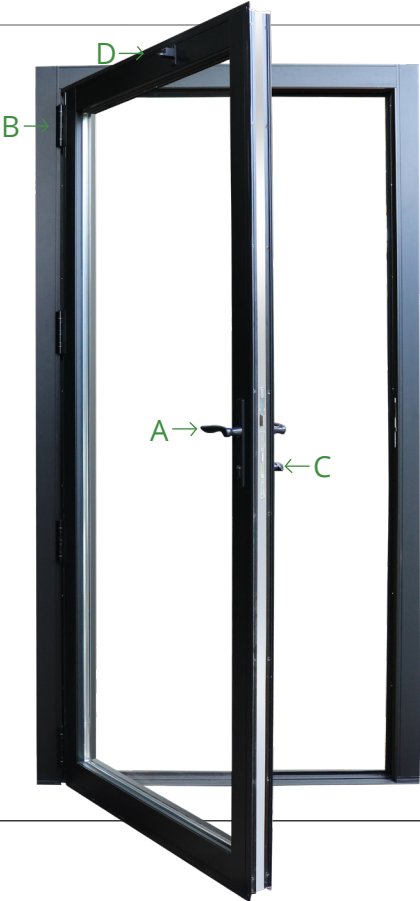
FINISHES:

- 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, & foiling options
 - Dual color or dual finish options

OPTIONS:


- Mullions, decorative muntins, simulated divided lites (SDLs), interior & exterior grids
- Multiple screen options

HARDWARE




A: Handles

SOLID BRASS — COASTAL APPLICATIONS*



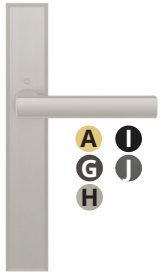
Toronto
Standard

A G
C H
E I
F




Atlanta

G H




Dallas

A I
G I
H



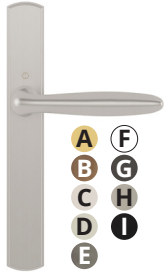
München

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	Antique Brass	Black PC	Dark Bronze
Polished Chrome*	Oil Rubbed Bronze	White PC	Pewter
Polished Brass	Dark Bronze PC	Satin Nickel	

* Not available for Torino

FOR "KEYED ALIKE" APPLICATIONS



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: Hinges



Semi-Concealed Hinge

- SI White
- SI Bronze
- Class I Clear Anodized
- Dark Bronze Anodized

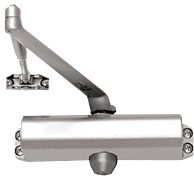
c: Closers, Catches, & Limiters



D Series 7414 Door Closer



D Series TS93 Door Closer



C Series PR82 Door Closer



Door Limiter

Door Closer Finishes: Aluminum Painted, Bronze, Black

Commercial Panic Hardware Options



Square Exterior Entry Trim



Mortise Panic



Push/Pull



Push Only Wire Pulls

Concealed vertical rod available on commercial panic hardware.

Passive Hardware Sets



Square Commercial



Toronto

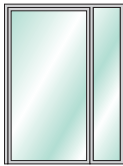
Please Note: All hardware is subject to vendor availability. Custom finishes may be available upon request at additional lead time and/or cost. Solar Innovations® reserves the right to discontinue any hardware option at any time. Please be sure to visit our website for additional product information: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

CONFIGURATIONS

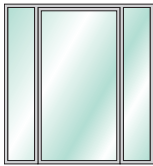
Additional configurations are available.



Single



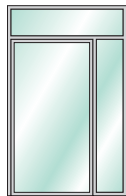
Single with Sidelite



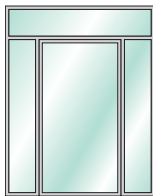
Single with Two Sidelites



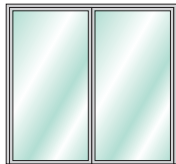
Single with Transom



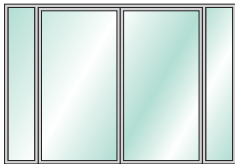
Single with Sidelite & Transom



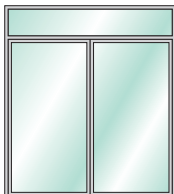
Single with Two Sidelites & Transom



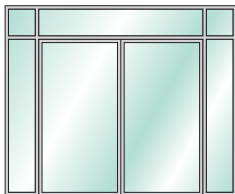
French



French with Sidelites



French with Transom

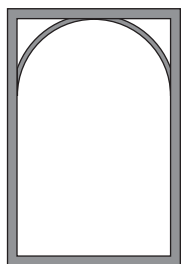


French with Sidelites and Transom

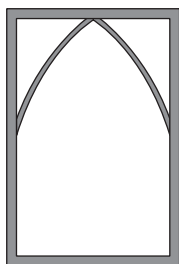
Note: Doors can be hinged, and single sidelites can be placed, on either the left or right side of door.



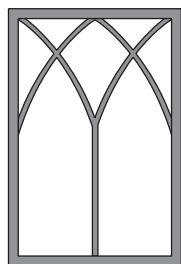
GRID OPTIONS



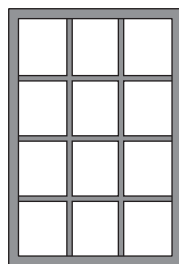
Arched Grid



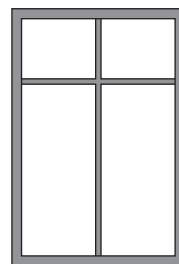
Gothic Grid



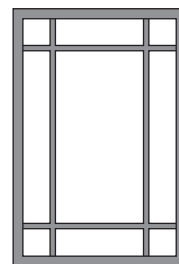
Double Gothic Grid



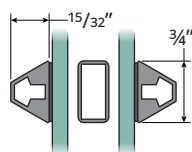
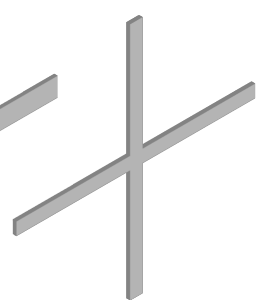
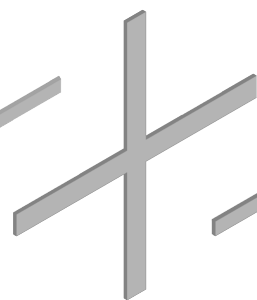
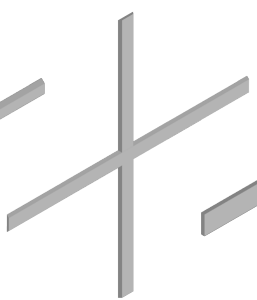
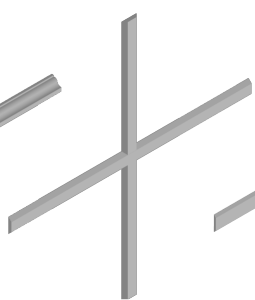
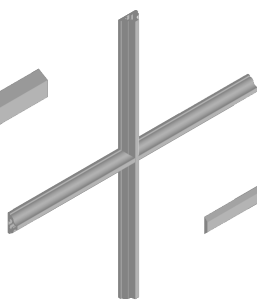
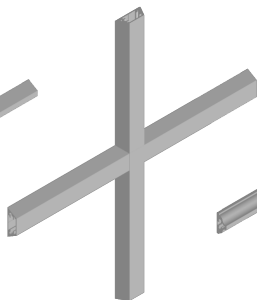
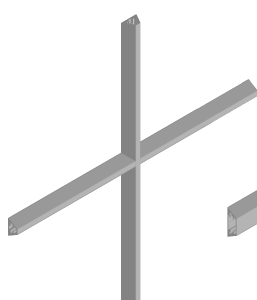
Traditional Grid



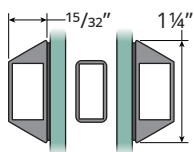
Cross Grid



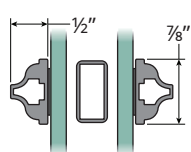
English Grid



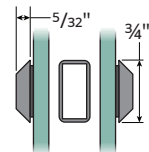
Traditional
with SDL



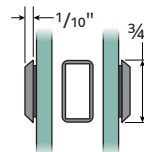
Wide
Traditional
with SDL



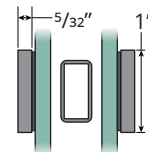
Ogee
with SDL



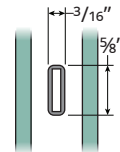
Low Profile
with SDL



Thin Low
Profile
with SDL



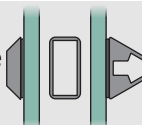
Simulated
Steel
with SDL



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.



SI Black



SI White



SI Sandstone



SI Natural Clay



SI Bronze



SI Hartford Green

Anodized Additional cost



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

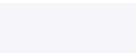


Bronze
FRML 97138




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

Metal Clad STANDARD* (EXTERIOR ONLY)




Copper

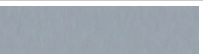


#4 Polished Stainless Steel

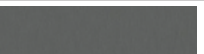
Metal Clad PREMIUM*



Rheinzink Bright Rolled**




Rheinzink Blue Gray**



Rheinzink Graphite Gray**




Brass




Bronze


Decoral Finishes (Powder Coat)*



Aged Dark Oak




Aged Light Oak




American Douglas




American Maple




Cherry




Cherry w/Flame




Colony Maple




Dark Walnut




European Cherry




Golden Oak




Knotty Pine



National Walnut



Oak



Oregon Douglas





Table Cherry



Teak

Wood Veneering (Unfinished) STANDARD*



Douglas Fir



White Oak



Walnut



Mahogany

Wood Veneering (Unfinished) PREMIUM*



White Pine



Pecan Pine



Cherry

Note: wood veneering is for interior applications only. Available on a limited basis due to vendor supply.

Wood/Glulam STANDARD*



Red Oak



White Ash



Hard Maple



White Oak

Wood/Glulam PREMIUM*




Douglas Fir



Cherry



Sapele Mahogany



Walnut

*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.



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%

G2 SWING DOORS

G2 Terrace & French Doors

The G2 system utilizes a 2¼" thick frame made of durable, low-maintenance aluminum. Terrace and French doors have a familiar operation with hinges being placed on the left or right side of the door frame. They can be designed to swing inward or outward and can be integrated into any Solar Innovations® system, or be installed in the rough opening of any structure. The unique mulling capabilities allow for modular construction and the seamless integration of transoms and sidelites.

Both Terrace and French door systems can include a thermal break, reducing the temperature transfer between the outdoors and indoors. Commercial systems can be designed for ADA compliance and equipped with standard push/pull panic, kick panel hardware, and locking mechanisms.

These door systems can be designed to meet or exceed regulations set forth in coastal areas.



G2 Air and Structure Impact Testing						
Panel Size*	Air at 1.57PSF	Air at 6.24PSF	Water	Design Pressure	Overload	Impact and Cycling
36"W x 96"H	0.03 cfm/ft²	0.08 cfm/ft²	6.0psf**	±50psf	±75psf	±50psf

* Engineering evaluations required for larger openings
** Based on water column

Panels

- Minimum panel size: 24" x 80"; smaller panels considered windows by code but may be available upon engineering approval
- Maximum panel size up to 3½' x 10'; larger panel options may be available depending on application

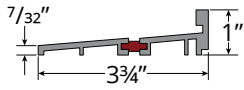
Glazing

- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from ¾" to 1¼"

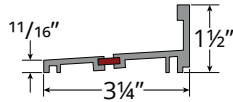
Performance

- Water performance up to 6.0psf, depending on sill choice, configuration, and water column
- Structurally tested up to a design pressure of 50psf
- Test results available upon request

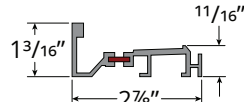
SILL OPTIONS



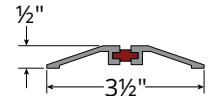
Thermal Outswing*



HP Thermal Outswing*



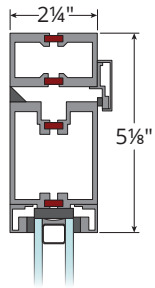
Thermal Inswing



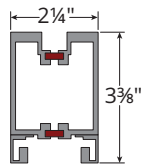
Thermal ADA

* Impact certified

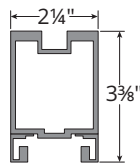
VERTICAL & HORIZONTAL RAIL OPTIONS



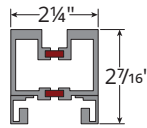
Outswing Head Detail



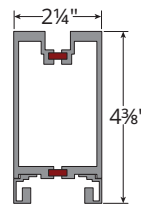
Standard Thermal



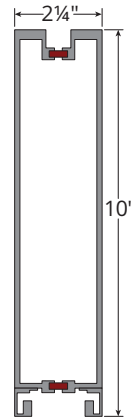
Standard Nonthermal



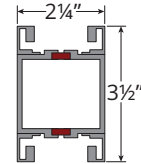
Narrow Thermal



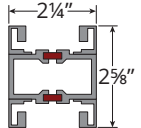
Stretch Rail



10" Bottom Rail



Standard Mullion



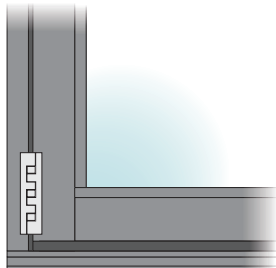
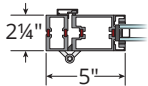
Narrow Mullion

MULLION OPTIONS

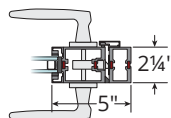
(True Divided Lites)

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

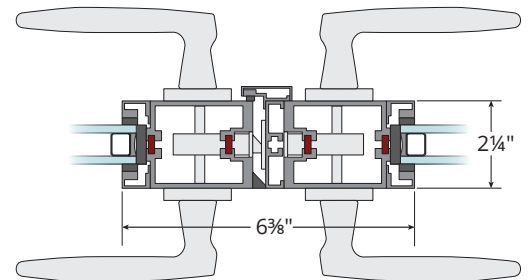
JAMB DETAILS



Standard Jamb & Frame



FRENCH DOOR UNION



Meeting Rail Detail

Options dependent upon desired size and engineering requirements.

To find out more about the features and options of our Swing Doors, visit our website at solarinnovations.com/terrace-and-french-doors/ or contact one of our sales representatives at 800 618 0669.

G3 SWING DOORS



G3 Terrace & French Door

The G3 system utilizes a 3" thick frame made of durable, low-maintenance aluminum. This system is ideal for commercial and residential applications where panels exceed 4' x 8'. For exterior installations, the frame utilizes a thermal strut system that separates the interior and exterior metals, reducing temperature transfer between the outdoors and indoors.

Commercial systems can be designed to be ADA compliant and equipped with standard push/pull hardware and locking mechanisms. Panic hardware and 10" bottom rails are also available upon request. Residential systems can include any of the commercial options and outfitted with multi-point locking hardware.

G3 Impact Terrace Door

A G3 impact door system is built with a heavier frame that will produce less deflection than its G2 counterpart. Adding laminated glass to the system fortifies its impact performance and assists in meeting code requirements in many coastal areas.

G3 Air and Structure Impact Testing					
Panel Size*	Air at 1.6PSF (HP Sill)	Air at 1.6PSF (Standard Sill)	Water	Design Pressure	Overload
36"W x 96"H	0.09 cfm/ft ²	0.05 cfm/ft ²	12.0psf**	±40psf	±60psf

* Engineering evaluations required for larger openings
** Based on water column

Panels

- Minimum panel width: 24" x 80"; smaller panels considered windows by code but may be available upon engineering approval
- Panel size up to 5' x 12'; larger panel options may be available depending on application

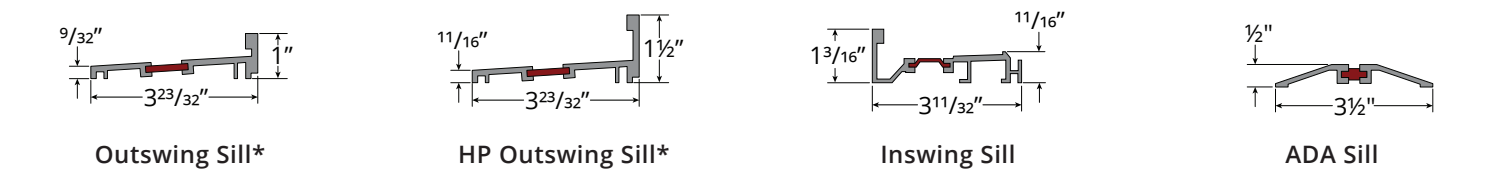
Glazing

- Designed to accommodate almost any monolithic, insulated, laminated, decorative, polycarbonate, or solid panel infill from ¼" to 1⅞"

Performance

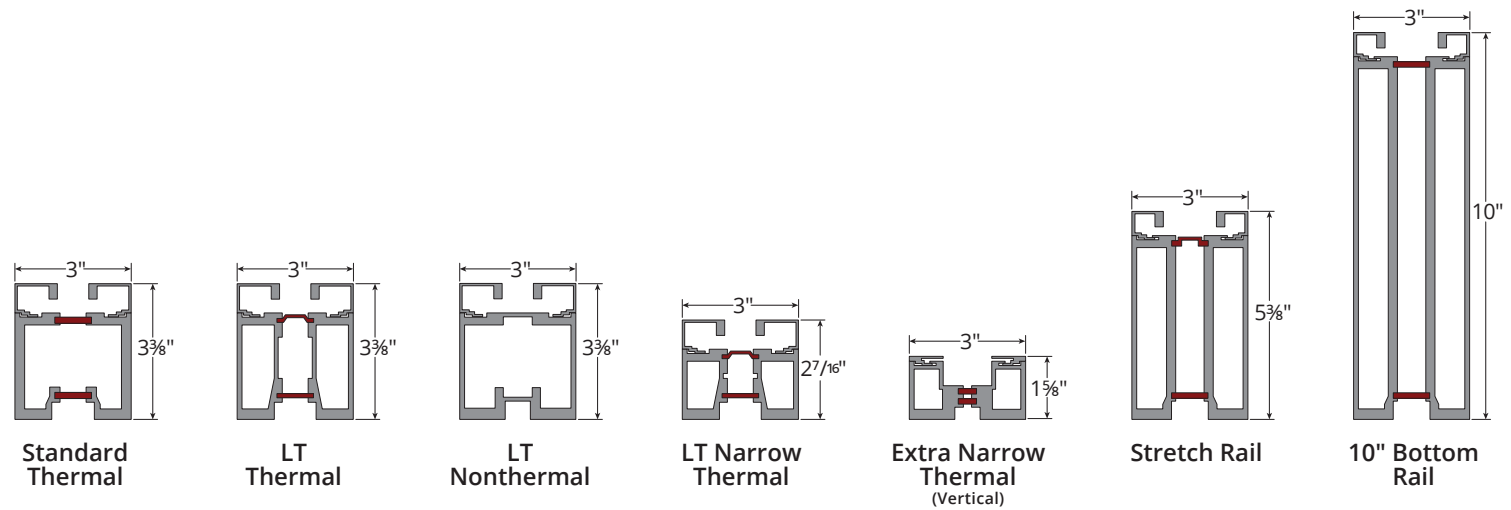
- Water performance up to 12psf, depending on sill choice and configuration
- Structural tested up to a design pressure of 40psf
- Higher water and structural performance available with engineering approval

SILL OPTIONS

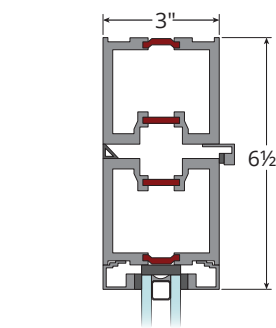


* Impact certified

VERTICAL & HORIZONTAL RAIL OPTIONS



HEAD

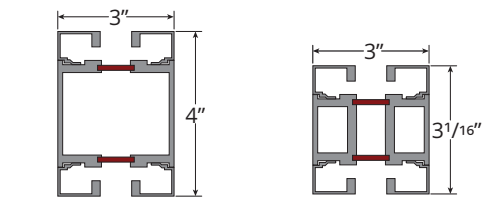


Head Detail

MULLION OPTIONS

(True Divided Lites)

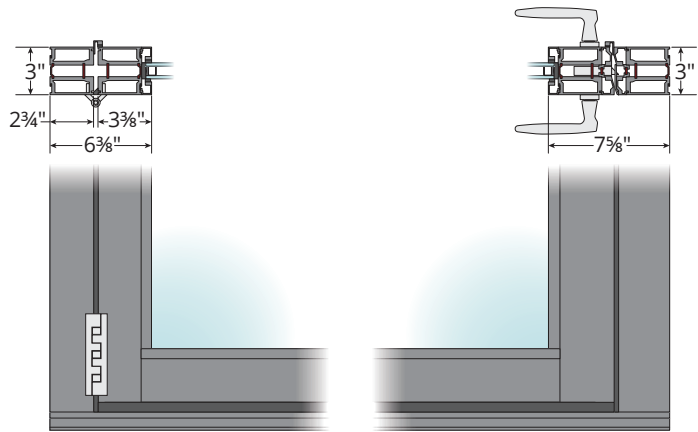
Please note: All mullions offered by Solar Innovations® include thermal break, regardless of the system



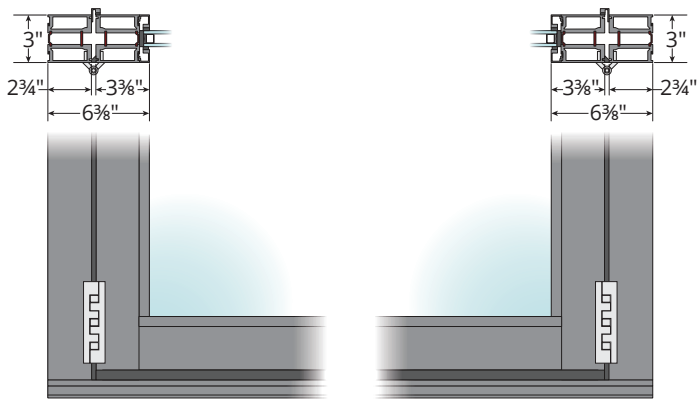
Standard Mullion

Narrow Mullion

JAMB DETAILS

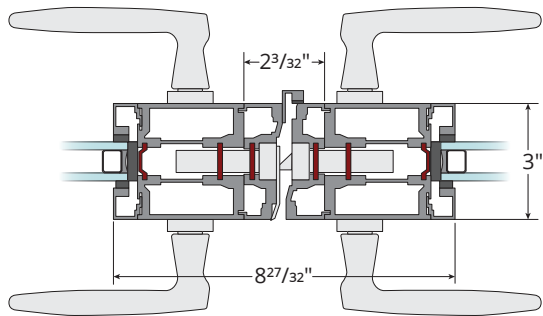


Standard Terrace Door Jamb & Frame



Standard French Door Jamb & Frame

FRENCH DOOR UNION



Meeting Rail Detail