

# WINDOW SYSTEMS



## A breath of fresh air

With a broad range in window operations — from fixed to tilt turn — Solar Innovations® Window Systems offer countless custom configurations to enhance any living space. The thermally broken aluminum profiles have exceptional thermal performance, creating a comfortable environment in all temperature extremes. In addition, aluminum windows will not rust, rot, warp, or need constant finish maintenance. These systems can be incorporated into almost any glass structures, houses, hotels, storefronts, and restaurants, just to name a few applications.

## FEATURES

### PANELS:

- Systems include fixed, casement, awning, tilt turn, tilt slide, hopper, and egress windows
- Consistent sightlines within systems
- LEED friendly system including recycled content
- Designed and manufactured in the U.S.A.

### PERFORMANCE:

- Thermally enhanced aluminum profiles
- Test results may be available upon request

### HARDWARE:

- Large variety of hardware options
- Heavy salt water resistant finishes available

## OPTIONS

### 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, and foiling options
  - Dual color or dual finish options

### ACCESSORIES:

- Decorative interior & exterior grids
- Fixed mesh insect screens
- In-system frame flanges, snap-in nailing fins, or slide-on nailing flanges

HARDWARE



A: Handles



Black Aluminum

**Folded Handle**  
For Awning, Casement and Hopper Windows



Black

**Standard Pole Operator Cam Handle**  
For Hopper Windows



Black White Aluminum

**Prima Handle**  
For Tilt Turn Windows



Black White Aluminum

**Crank Dyad Operator**  
For Casement Windows



Black White Aluminum

**Split Arm Operator**  
For Awning Windows

Additional handle styles and finishes available upon request. Non-standard handle options may increase lead times and/or cost. All standard finishes shown are paint.

B: Locks



Black White Bronze Aluminum

**Standard Single & Multi Point Cam Locks**  
Dependent on size of the window



Black White Aluminum

**Surface Mount Cam Lock**

Hinges



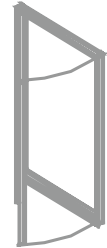
**Four Bar Hinge**



**Four Bar Egress Hinge**

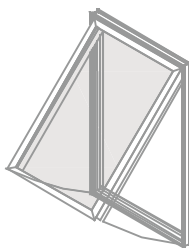
**Please Note:** All hardware is subject to vendor availability. Custom finishes may be available upon request at additional lead time and/or cost. All standard finishes shown are paint. Solar Innovations® reserves the right to discontinue any hardware option at any time. Please be sure to visit our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

CONFIGURATIONS



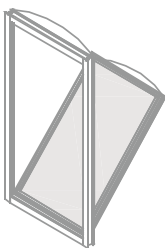
**CASEMENT**

All Window Systems  
*Outswing Casement Only in Projected System*



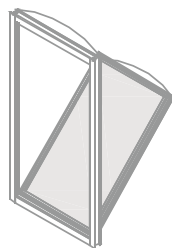
**AWNING**

All Window Systems



**HOPPER**

All Window Systems  
except Projected



**TILT TURN**

International Window Systems



**FIXED**

All Window Systems

# 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


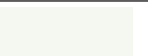
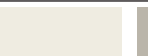







**Anodized** Additional cost

	
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\*

	
Copper	#4 Polished Stainless Steel

**Metal Clad** PREMIUM\*

				
Rheinzink Bright Rolled	Rheinzink Blue Gray	Rheinzink Graphite Gray	Brass	Bronze

**Decoral Finishes (Powder Coat)\***

									
Knotty Pine 2103 DS 716 Textured DS 402 Smooth	Douglas Fir 1501 DS 716 Textured DS 402 Smooth	Acacia 1001 DS 716 Textured DS 402 Smooth	Cherry 1402 DS 716 Textured DS 402 Smooth	Acacia 1001 DS 733 Textured DS 403 Smooth	Oak Assi 2501 DS 733 Textured DS 403 Smooth	Cherry 1402 DS 733 Textured DS 403 Smooth	Dark Walnut 1802 DS 733 Textured DS 403 Smooth	Teak 2601 DS 706 Textured Mahogany Finish	National Walnut 1806 DS 706 Textured Mahogany Finish

**Wood Veneering (Unfinished)** STANDARD\*


			
Douglas Fir	White Oak	Walnut	Honduran Mahogany

**Wood Veneering (Unfinished)** PREMIUM\*

		
Ponderosa (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

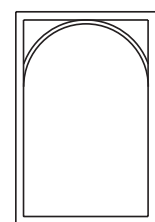
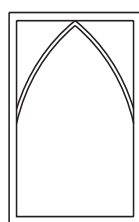
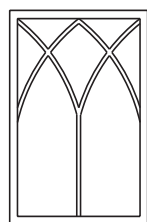
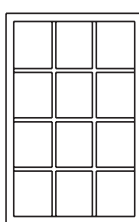

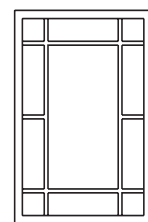
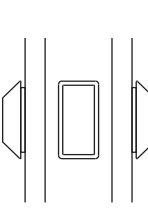
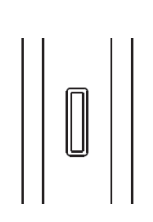
**Wood/Glulam** PREMIUM\*

			
Douglas Fir	Cherry	Sapele Mahogany	Walnut

\*Lead times subject to availability.

Note: Depending upon color selection, additional charges and increased lead times may apply. Extended warranties and service plans are available for an additional charge. Examples are shown as accurate as photography and printing processes allow. Final finish selection should be made from a physical sample; contact Solar Innovations® for samples. Product and finish options are subject to vendor availability. Solar Innovations® reserves the right to discontinue any option at any time without notice. Additional options, including custom color match, are available; contact Solar Innovations® for details.

# GRID OPTIONS

							
Arched Grid	Gothic Grid	Double Gothic Grid	Traditional Grid	Cross Grid	English Grid	Low Profile Grid with SDL	Interior Muntin Grid on Insulated Glass

Low profile grids can be used on all systems. Colonial, Ogee, and Traditional grids cannot be used on sliding glass doors, windows, or walls. Please visit [solarinnovations.com](https://www.solarinnovations.com) for additional decorative options.



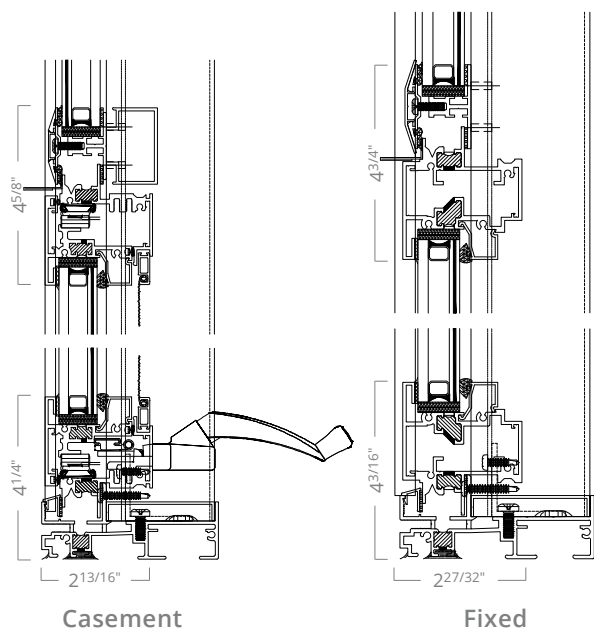
# PROJECTED WINDOW SYSTEMS



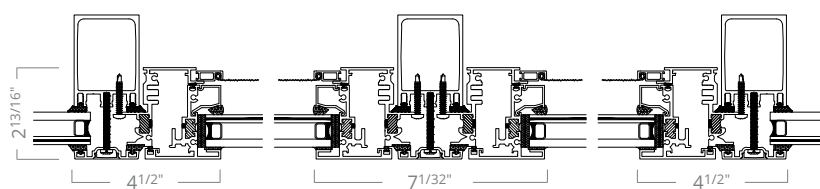
## Product Overview

Operable window options include casement windows that are cranked open either left or right or awning windows that are hinged at the top and push outward to open. Projected windows allow for further customization and ventilation when incorporated as an in-system window in a Solar Innovations® custom glass structure. The projected window system is an ideal solution for both commercial and residential applications when mulling is not desired and is engineered specifically for out-swing applications.

## Head & Sill Details



## Casement Jamb Details



## Features

- Available in awning, casement, & fixed
- 2 13/16" frame depth
- Thermally broken utilizing thermal fill & debridge
- In-system frame flange
- Minimum panel size: 2' x 2' operable, 1' x 1' fixed; smaller panels may be available upon engineering approval
- Maximum panel size up to 4' x 7' pending hardware limitations

# G2 INTERNATIONAL WINDOW SYSTEMS



## Product Overview

With the ability to mull different operable or fixed windows together, G2 International Window Systems can provide a solution to almost any type of configuration imaginable while providing superior thermal and structural performance. This system utilizes fill and debridge technology. Casements, awnings, fixed, and hopper windows are all able to be incorporated into the same unit without requiring additional framing in this system. The G2 HP system can be used for creating large high performance tilt turn windows.

### Features

- Awning, out-swing casement, hopper, fixed, and tilt turn windows
- 2 $\frac{5}{8}$ " frame depth
- Slide-on nailing flange - 2" standard
- Impact option available
- Acoustical Testing
- NFRC Certified

### G2 Fixed Air and Structure Impact Testing

PANEL SIZE	AIR AT 1.57 PSF	AIR AT 6.24 PSF	WATER Awning & Casement	WATER Fixed	DESIGN PRESSURE	UNIFORM LOAD	OVERLOAD
72" H x 36" W	0.1 L/s/m <sup>2</sup>	0.01 L/s/m <sup>2</sup>	12.0 PSF Based on Water Column	15.0 PSF Based on Water Column	± 65 PSF	± 65 PSF	± 97.5 PSF

**Please Note:**  
Testing and performance results may vary depending upon sill, size, and hardware selections. Please be sure to visit our website at [www.solarinnovations.com](http://www.solarinnovations.com) or contact your Solar Innovations® representative for additional product information.

## Panels

- Minimum panel size: 2' x 2' operable, 1' x 1' fixed; smaller panels may be available upon engineering approval
- Maximum Panel size up to 4' x 7' pending hardware limitations; larger panel options may be available depending on application

## Glazing

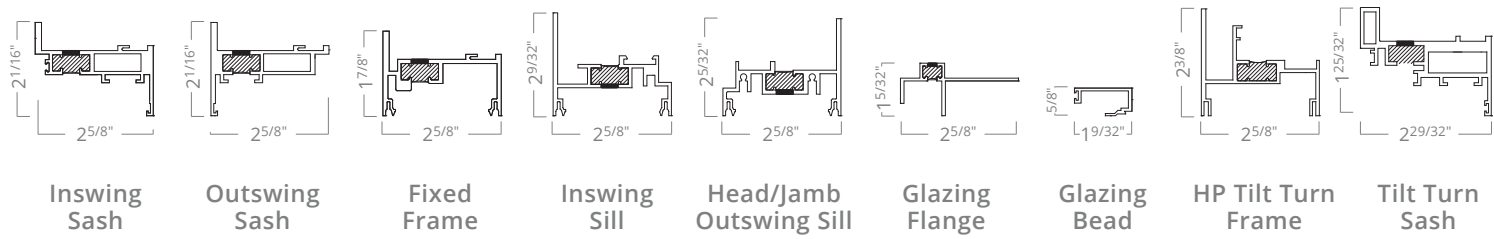
- Designed to accommodate monolithic laminated, and insulated glazing infills of 1"

## Performance

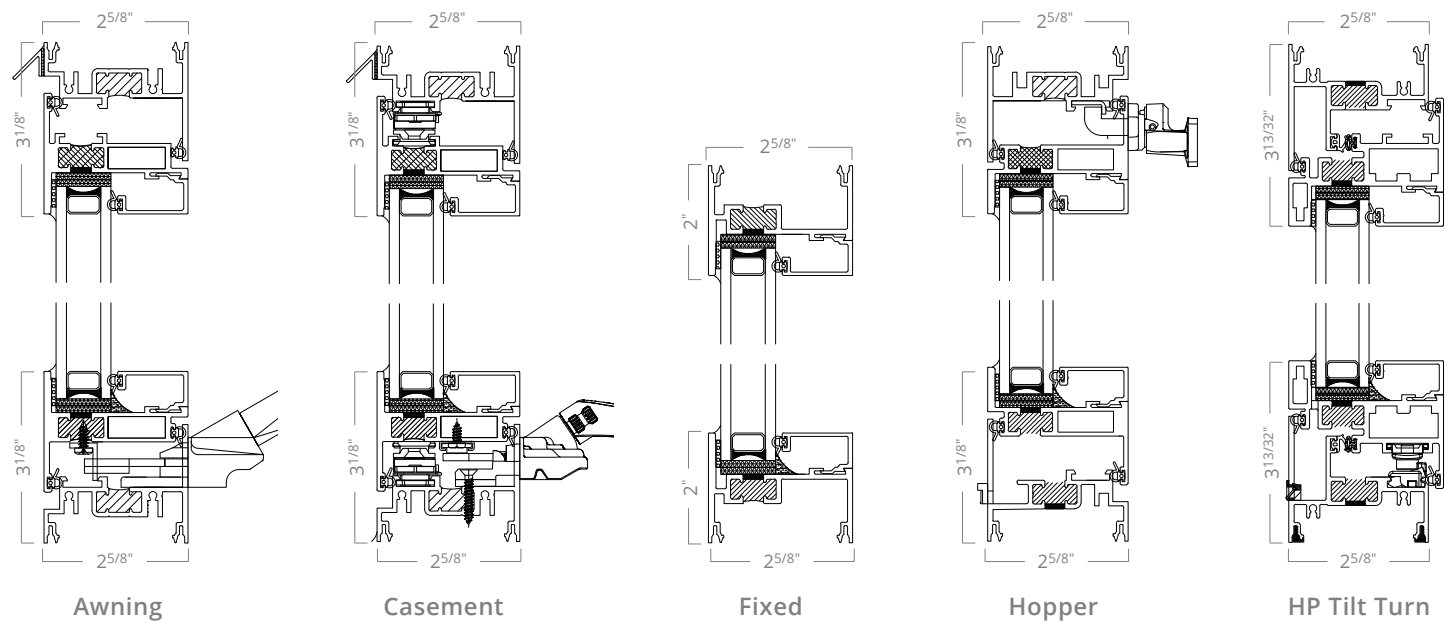
- Water performance up to 15psf (fixed), depending on configuration and water column
- Higher design pressure ratings available with engineering approval
- Test results available upon request



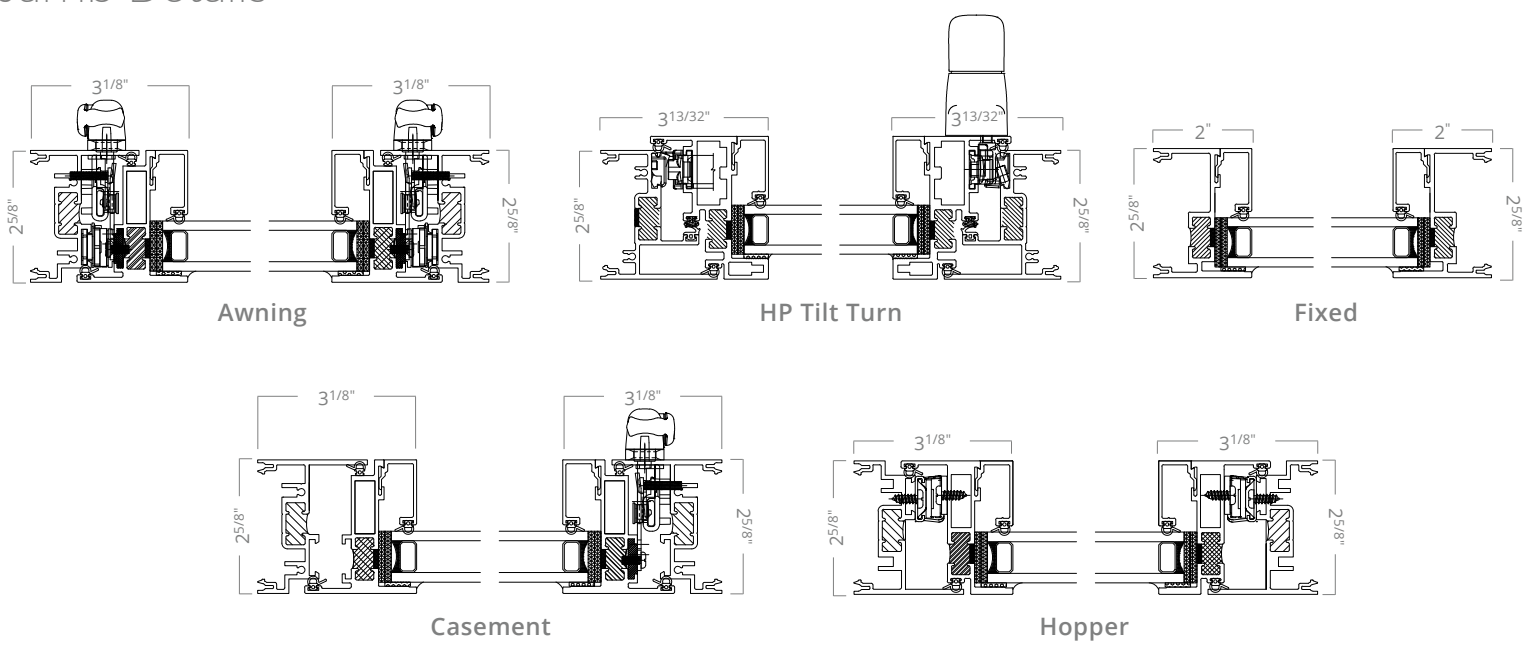
# Framing Member Options



# Head & Sill Details



# Jamb Details



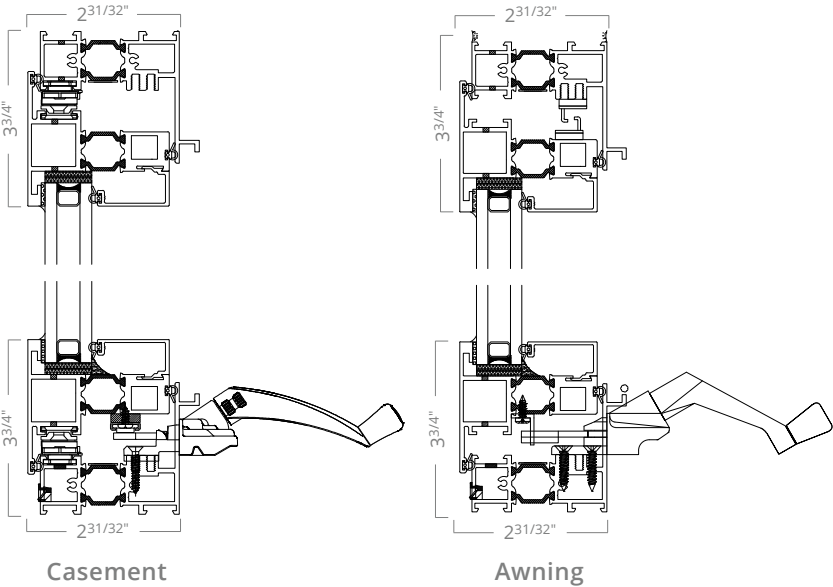
# G3 INTERNATIONAL WINDOW SYSTEMS



## Product Overview

G3 International Window Systems provide superior thermal offerings and capabilities by utilizing thermal strut. This technology allows for a dual color unit by separating the profiles into two individual pieces. It also provides a wide range of glazing thicknesses to conform to any application. The system can be used in awning, hopper, casement, fixed, and tilt turn windows.

### Head & Sill Details



### Jamb Details

