

# GLASS RAILINGS



Enjoy new heights with confidence, style, and safety.

Solar Innovations® glass railing system is designed for residential and commercial applications. The dry glazed mounting shoe provides a cleaner, simpler installation (as compared to wet set railing systems) that delivers excellent performance, long term serviceability, and adjust-ability. The basis of the design is a aluminum shoe which holds a solid piece of glass in place, typically 9/16" laminated glass (1/2" nominal thickness) or 1/2" fully tempered glass when permitted. Each piece of glass within the railing system is completely independent of the next. None of the glass pieces will touch, allowing a small space between each section. The top of the glass can be either exposed or fit with a round stainless steel cap.

## FEATURES

### FEATURES:

- Dry glazed mounting shoe
- Concrete or steel substrate integration
- One or two side adjustable design
- Segmented radius & irregular configurations available
- Hand rails are 34" - 38" & guard rails are 42" or taller
- LEED friendly system including recycled content
- Designed and manufactured in the U.S.A.

### GLAZING:

- Accommodates polished glazing infills from 1/2" to 3/4"; thicker glass options depending on engineering

### PERFORMANCE:

- ASTM E985-000 approved

## OPTIONS

### FINISHES:

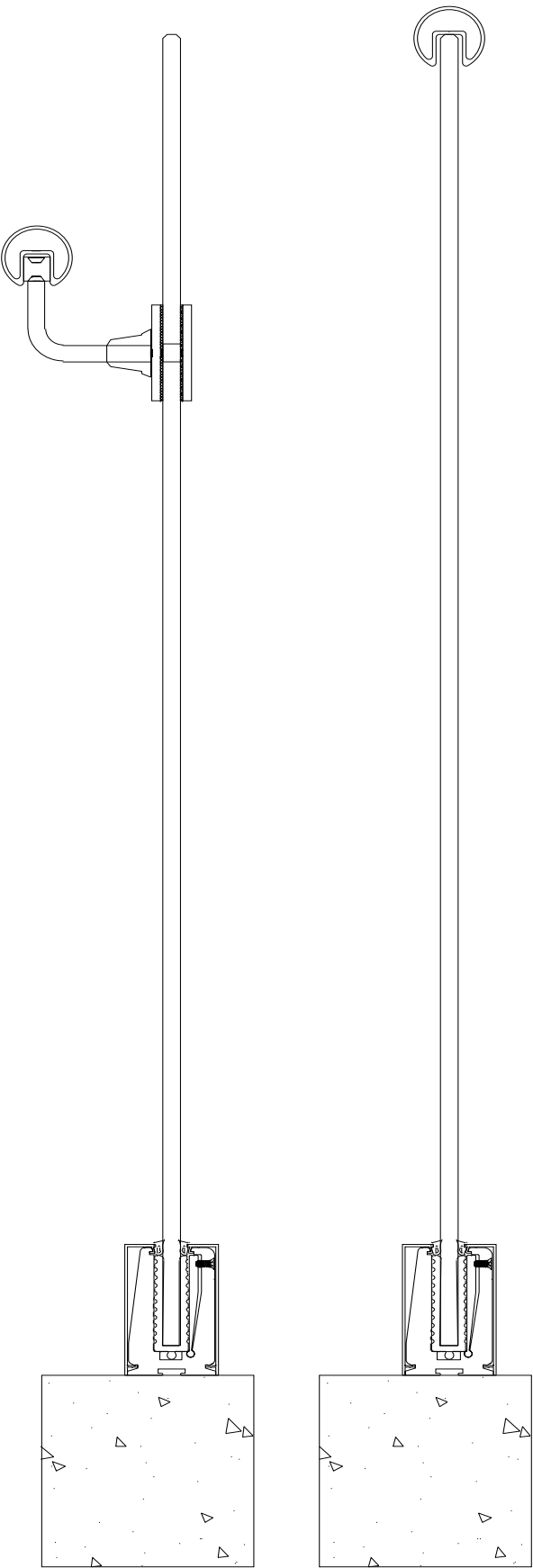
- Standard finishes
  - AAMA 2603: Bronze, White
  - AAMA 611 Class I Anodized: Clear, Dark Bronze
- Designer finishes
  - AAMA 2603: Hartford Green, Black, Natural Clay, Sandstone
- Custom finishes
  - Powder coat finish: AAMA 2604 - 2605
  - Fluoropolymer (50% or 70%): AAMA 2604 - 2605
  - Wood veneer, & metal cladding options
  - Dual color or dual finish options

### ACCESSORIES:

- Wood & metal handle rail options & shapes available
- Wood & aluminum profile top cap available
- Round or straight end caps

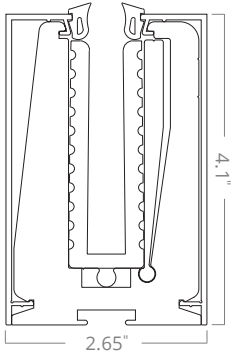
# GLASS RAILING DETAILS

# SHOE ASSEMBLY

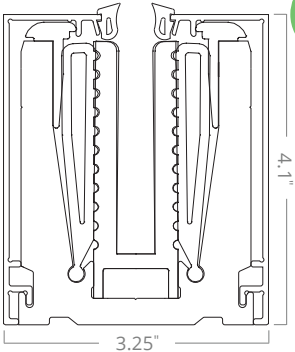


Glass Railing with  
Projected Hand Rail

Glass Railing with  
Top Rail



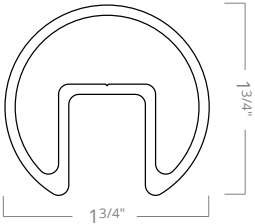
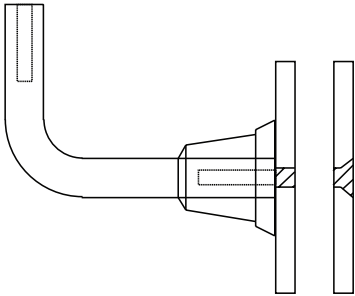
G1 Shoe Assembly



Patented G2 Shoe Assembly  
(View patent at [www.siip.co](http://www.siip.co))



# HAND RAIL OPTIONS

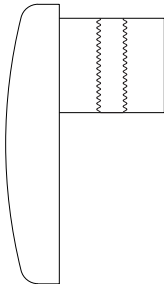


Projected Hand Rail

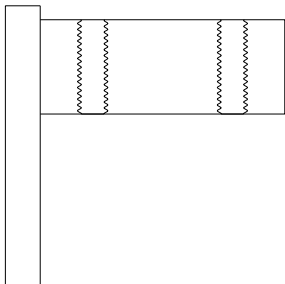


Glass Top Hand Rail

# GLASS HANDRAIL END CAP OPTIONS



Curved End Cap



Straight End Cap


TESTING


NCTL Testing - ASTM E985-00							
TEST NUMBER	PANEL SIZE	SERIES	CONCENTRATED LOAD VERTICAL (365 lbs/ft)	CONCENTRATED LOAD HORIZONTAL (365 lbs/ft)	DISTRIBUTED LOAD VERTICAL (60 lbs/ft)	DISTRIBUTED LOAD HORIZONTAL (60 lbs/ft)	GLAZING
110-20273-1	44.125" H x 145.75" W	Top Mounted with Tempered Glass	1.25"	2.875"	1.25"	1.375"	0.487" Monolithic Tempered Glass
110-20273-2	44.125" H x 145.75" W	Side Mounted with Tempered Glass	0.0625"	2.75"	0.125"	1"	0.487" Monolithic Tempered Glass
110-20273-3	44.125" H x 145.75" W	Top Mounted with Laminated Glass	0.0625"	2.75"	0.375"	1.25"	0.45" Monolithic laminated Glass 0.18" Annealed Glass 0.06" PVB Interlayer
110-20273-4	44.125" H x 145.75" W	Side Mounted with Laminated Glass	0.125"	2.675"	0.375"	1.25"	0.45" Monolithic Laminated Glass 0.18" annealed glass 0.09" SentryGlas Plus Interlayer

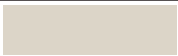
**Please Note:**  
Testing and performance results may vary depending upon sill, size, and hardware selections. Please be sure to visit our website at [www.solarinnovations.com](http://www.solarinnovations.com) or contact your Solar Innovations® representative for additional product information.


FINISH OPTIONS


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


**SI Black**

**SI White**

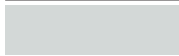
**SI Sandstone**


**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

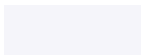
**Sandstone**  
FRSL 46647


**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.

\*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.



 [Learn More](#)

To find out more about the features and options of our Glass Railings, visit our website at [solarinnovations.com/glass-railings/](http://solarinnovations.com/glass-railings/)