Wood Facade Systems
by Solar Innovations, Inc.

Where Sustainability Meets Innovation
®

Single Source Supplier of Wood and Aluminum Products

Curtain Walls
Skylights & Structures
Doors & Windows
Made in the U.S.A.

www.solarinnovations.com
Solar Innovations, Inc.'s wood facade systems provide a warm wood interior with a thermally enhanced system developed through 15 years of innovation and experience. Our skilled engineering and design teams work with customers to ensure their performance and aesthetic requirements are met. With either glu laminates, or in some cases solid beam construction, Solar Innovations, Inc.'s wood facades provide uncompromising beauty with a superior performing system.
Solar Innovations, Inc. manufactures high quality thermally-broken aluminum operable window and door systems that can be seamlessly integrated into the existing wood facade. A matching wood veneer can be factory-applied to the windows and doors which maintains the appearance of continuous wood while providing the highest level of performance. Window operations include projected, sliding, folding, stacking, lift slide, tilt turn, and pivot. Door operations include single terrace or French, folding, stacking, pivot, dual slide, multi-slide, lift slide, tilt turn, and tilt slide. Oversized and custom configurations are provided upon request.

Custom ventilation is also available, including motorized window vents for vertical and sloped applications.
Series SI5000W Design Options

Wood Facade System

Wood Facade with Wood Cover Cap

2-Side Structurally Glazed Wood Facade

Wood and Aluminum Facade System

4-Side Structurally Glazed Wood Facade

Wood and Steel Facade System

Tubular aluminum curtain wall also available from Solar Innovations, Inc.
SI5000W System

System Components
- Cover Profiles Available in Aluminum or Wood
- Variety of Cover Cap Options for all Profile Widths
- Wood Joinery Connectors Designed to Simplify Product Installation
- Enhanced PVC-U Isolator for Superior Thermal Performance
- Stainless Steel Fasteners Only
- Numerous Sunshade Cap Options

Enhanced Features
- Base Profile Width
  - SI5200W = 2"
  - SI5250W = 2 ½"
  - SI5300W = 3"
- Optional thermal enhancements
- Hurricane Impact Certified Products, FL #13582.X
- System Accepts Any Glass Thicknesses from ¼" to 1 ½"
- Can be Custom Engineered to Meet Virtually any Design, Application, or Certification
- Glulam Members with Custom Millwork Features
- Gateway AAMA Test Certified
  - 12 PSF Water Infiltration
  - 0.01 cfm/ft² Air Infiltration
  - 5' x 10' Impact Certified Panels with ± 50PSF Design Pressure
  - 0.31 U-Factor

Higher performance levels available. Contact your Solar Innovations, Inc. sales representative.
Wood Joinery and Construction

Solar Innovations, Inc. engineers each complete facade system to ensure that all wood members are properly sized and are anchored to effectively support the aluminum glazing system. This approach to wood and aluminum facade system construction is a critical step to ensure a seamless, high quality system with certified, tested results.

By utilizing our revolutionary wood joinery connectors, assembly is made more efficient and cost effective. Field assembly is extremely efficient: simply align the horizontals, tighten the fasteners, and you're done. The horizontals are automatically positioned flush with the mullions; no further adjustments are required. The wood joinery connectors guide the horizontal members into a tight, mechanically fastened pressure fit against the mullion, thereby creating an ideal connection.

The SI5000W series can be used in multiple conditions: vertical, integrated slope, and stand-alone skylight applications. The aluminum glazing system can be constructed by using either “zone-drained” or overlapping “positive drainage” construction to accommodate specific requirements.

Every wood and aluminum facade system is factory-finished to maintain the required moisture content of the wood members. This is a critical step in the fabrication of a high quality wood facade system, which limits unnecessary stress and damage to the wood members during shipping and installation. The system is then completely factory-assembled to ensure an exact fit, before being knocked down for packaging. Joinery accessories are typically attached to the wood members before each individual member is wrapped in preparation for delivery to the job site.
Wood Species & Finishes

Solar Innovations, Inc. is committed to promoting sustainable forest management through independent third party certification. Upon request, Solar Innovations, Inc. can source wood that has been certified by the Forest Stewardship Council (FSC® Certified). Please note only the products marked as such are FSC.

**Standard Species Available***
- White Oak
- Douglas Fir
- White Ash
- Sapele
- Hard Maple
- Hemlock
- Sugar Pine
- Eastern White Pine
- Red Oak

**Structural Veneer Lumber**
- SVL™ Laminated Douglas Fir
  - SVL is stronger than conventional glulam timber and is ideal for smaller mullion depths and/or larger spans.
- Lamboo®
  - Lamboo is an engineered, high performance bamboo product that is used within architectural, structural, and design applications, and is structurally superior to its wood counterparts.

**Finish**
A wide variety of stain finishes are available in both water-based and solvent-based options. Please contact Solar Innovations, Inc. to discuss the finish option that best meets your needs. Multi-coat, deep penetrating, microporous wood preservatives and sealers are recommended. Wood can be shipped unfinished and field finished by customers.

*Additional wood species are available upon special request. Please note that wood species listed are available up to 21’ lengths in one piece. All glulams longer than 21’ will require additional finger jointing, affecting aesthetics and strength. These requests must be evaluated by Solar Innovations, Inc. engineers before approvals are granted.
Product Lines and Colors

Folding Glass Walls, Doors, Windows, & Screens
- Interior and Exterior Applications
- Aluminum Construction
- Wood and Metal Cladding Interior Options
- 90° No Post and Segmented Radius Options
- Multiple Sills; ADA Sills
- Miami Dade and Florida Product Approved Options
- Panic Hardware

Stacking Glass Walls & Clear Glass Walls
- Interior and Exterior Applications (Limited Air and Water Performance)
- Aluminum Construction
- Wood and Metal Cladding Options
- Pocketing; 90° No Post; Segmented Radius; Remote Stack
- Multiple Sills; ADA Sills
- Non-Thermal Systems Available
- Panic Hardware

Sliding Glass Doors, Windows, & Screens
- Multiple and Dual Track Options
- Radius; Pocketing; Serpentine
- 90° and No Post Options
- ADA Sills
- Florida Impact Approved Options

Doors
- Terrace and French
- Dual Action (Tilt Turn, Tilt Slide, Lift Slide)
- Pivot Door (Offset and Automated Options)
- Wood and Metal Cladding Interior Options
- Single Side Lites, Fixed, and Operable Transoms
- High Performance and ADA Sill Options
- Modular Pre-Assembled and/or Pre-Glazed

Windows
- Projected (Awning, Hopper, Casement, Fixed)
- Dual Action (Tilt Turn, Tilt Slide, Lift Slide)
- Hung (Single, Double)
- Mulled Window Systems Available
- Modular Pre-Assembled and/or Pre-Glazed
- Thermally Broken Aluminum
- SDL and Grid Options

Skylights
- Aluminum Construction
- Wood Interior/Aluminum Exterior (Solid or Glulam; Species Options)
- Integrated Vertical/Slope Options
- Operable Vents (Manual and Automated)
- Retractable and Operable Roof Panels
- Single & Multi-panel Retractable Skylights
- Shades (Manual and Automated)
- Florida Product Approved Options
- Pre-Assembled and/or Pre-Glazed, Knocked Down, and Modular Options

Structures
- Greenhouses, Conservatories, Sunrooms
- Pool and Spa Enclosures, and Custom
- Aluminum
- Wood Interior/Aluminum Exterior
- Operable Windows, Doors, & Roof Vents
- Numerous Decorative Accessories
- Florida Product Approved Options
- Interior and Exterior Shading Available

Curtain Walls - Wood & Aluminum
- Wood Construction (Straight or Radius)
- (Solid or Glulam Members)
- Aluminum Construction (Straight or Radius Options)
- Integrated Vertical/Slope Options
- Florida Product Approved Options
- Integrated Windows and Doors

Canopies & Walkways
- Radius and Segmented Radius
- Curved and Flat Glass Options
- Integrated Gutters
- Glass and Photovoltaic Infill
- Polycarbonate 8, 16, 25, 40, 50 and 60mm

Vertical & Sloped Daylighting Systems
- Continuous Walls to 24'
- Welded Curb & Integrated Slope Skylights
- Polycarbonate 60mm
- Lumira Infill
- Impact Certified Options

Standard Colors

| Black | Natural Clay | Bronze | White | Hartford Green | Sandstone | Mill Aluminum |

Wood Cladding

| White Oak | Hard Maple | Hemlock | Douglas Fir | White Ash | Mahogany | Sugar Pine |

Anodized Colors & Metal Cladding

| Dark Bronze Anodized | Class I Clear Anodized | Copper | Stainless Steel | Simulated Lead Coated Copper | Bronze |

Decoral Faux Wood Finishes

| Acacia | Cherry | Douglas Fir | Knotty Pine | Dark Walnut | Mahogany | Oak Assi |

Solar Innovations, Inc.
31 Roberts Road, Pine Grove, PA 17963
Phone: 800-618-0669 or 570-915-1500
Fax: 800-618-0743 or 570-915-6083

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