Windows and doors connect the interior of your home to the outside and your surroundings. They allow sunlight to fill your rooms and they give you views of the scenes around you. Open a window and feel a fresh breeze. Open a door and step outside.

Sun clad wood windows and doors are designed to highlight your home by giving you the views and access you want while providing protection from the elements that you need to keep outside. Our products guard against the seasonal assault of heat and cold, wind and rain, snow and ice, sealing away the harsh elements while allowing in light from the sun and a gentle breeze when you choose to open your home to them.

This guide will give you insight into the products and options that we build and the benefits that they can provide you and your home. Explore these pages and discover some of the advantages of Sun windows and doors. Whether you are getting ready to build a new home or remodel an existing one, Sun would be honored to be part of your project.
About Sun

Sun Windows, Incorporated is the exclusive manufacturer of SunClad™ wood windows and doors, as well as Sun Vinyl windows. Our products are built in the U.S.A., at our factory located in Owensboro, Kentucky.

Sun’s heritage extends back to 1930, when V.E. Anderson, Sr. developed a self-storing wood storm window and began selling it door-to-door. Over the years, the company has evolved through changes in locations, name and product offerings to become a leading regional manufacturer with a focus on innovation and quality.

Sun has chosen to limit our area of service to a geographic region within 500 miles of our factory. This increases Sun’s flexibility in providing the best possible products, in a timely fashion, at a competitive price. Our regional focus also means that many of our suppliers are close to our location. This can have a positive economic and environmental impact, helping to achieve additional credit for LEED certified projects.

The Sun brand name may not be as well known as many of our big-name competitors. That is due to the fact that we don’t spend a lot of money on name-recognition advertising campaigns. Rather, we have chosen to invest those dollars in designing and building our products.

When you choose to buy a Sun product, you are primarily paying for the expense of product development and production, not advertising. Yes, we do spend some money advertising, like this product guide, but the bulk of the product price is in the product itself.

Our competitors, whose names you know well, have to pay for that name recognition. That’s not necessarily a bad thing, but it means they either charge substantially more for a comparable product or they reduce the product cost, which often means they reduce the quality of the product. The big advantage for us is that we can offer a product of superior quality at an excellent price.
Why Choose Sun

Sun offers some key features that can benefit you and your project.

Extruded Aluminum Exterior ................................................................. p44
- Highly resistant to the effects of weather
- Does not rust like other metal
- Does not rot, decay, warp or distort like wood
- Exceptional strength and long life for the product
- Protects interior wood components
- Protects the building in which it is installed
- Finished with Sun’s High-Durability Powder Coat

Integral Nail Fin ................................................................. p44
- Provides a strong, rigid fastening surface
- Integral part of the exterior frame extrusion
- Easy to integrate with weather resistive barrier systems
- Can be removed for replacement applications

Water Management System ................................................................. p46
- Two Levels of Protection
- Level 1 - Silicone seal at glass perimeter stops intrusion
- Level 2 - Sash/Panel drain-vent system provides safe path for water/moisture to exit if it gets past Level 1 seal

Powder Coat Exterior Finish ................................................................. p48
- Outstanding weatherability
- Film toughness - Tougher than conventional painted finishes
- Excellent resistance to chipping, cracking, peeling and fading
- Long finish life
- Extensive range of colors
- Low environmental impact
- AAMA 2604 and 2605 finish options

Sun Insulated Glass ................................................................. p52
- In-House insulated glass production facility
- Glass testing and certification
- Dual glazed insulated glass is standard
- Double Strength glass is standard
- Low-emissivity glass options
- Argon filled sealed airspace
- Duralite™ warm-edge glass spacer system

Duralite Glass Spacer System ................................................................. p53
- Non-Metallic
- Composite Laminating Technology
- Impermeable to gas and water vapor
- Smooth visible surface appearance
- Proven adhesive technology
- Superior Argon gas retention
- Lowest Conductivity Warm-Edge Spacer
- Improves Condensation Resistance of I.G. unit
- Provides warmer edge-of-glass temperature
- Superior edge seal properties

Wood Interior ................................................................. p55
- Clear, Ponderosa pine interior
- Ideally suited for staining or painting
- Factory Finish Options - No Finish, Primed, White Painted Finish, Custom Painted (to supplied color samples), Custom Stained (to supplied color samples)
- Alternate Wood Species available by custom order

Weather Seal Protection ................................................................. p57
- Outstanding air-infiltration performance
- Complete weatherstripping
- Secure sash closure
- Our product air-infiltration ratings out-pace the industry standards and many of our competitors
Applications

New Construction Projects
New Construction projects are either new buildings or new additions to an existing structure. As far as windows and doors are concerned, the primary focus is on the fact that these projects require products that are prepared to fit newly framed openings. Often, these openings can be prepared to fit standard sized windows and doors, which saves the customer the extra expense of custom sized units. Although, if needed, custom sized units can still be built to meet the special needs of a project.

Replacement / Renovation
Renovation projects include replacing windows and doors in already finished buildings. It also includes rebuilding or remodeling projects where windows and doors may be added to a structure. These projects can vary greatly in their installation requirements. Replacement products may be the best solution if you are looking to simply replace an existing window or door. However, frame tear-outs and reframing projects may take advantage of other installation options available with our standard product frames.

Residential
Residential projects focus on the needs of a family dwelling. Whether it is a single family home or a multi-family building, the requirements for Residential construction are concerned with design, function and safety.

Commercial
Sun windows and doors are a great solution for many Commercial applications. Sun is dedicated to the specific needs of the Commercial building industry. Our staff is ready to work with you to develop a plan to meet the requirements of your project.

Contemporary
Sun products offer the modern styling and sleek designs that make them an attractive solution for Contemporary Design projects. Our selection of products and options provide flexibility in meeting your design style.

Traditional
Always in style, Traditional designs are a great choice. Again, Sun products and options provide the resources you need to achieve the home of your dreams.
Contemporary Design

Sun offers several products and options that allow them to be easily tailored to fit into many Contemporary design schemes.

Products
• Operating Casement, Awning, Comfort-Tilt Double Hung
• Fixed Lite Windows in Sash Set and Direct Set frame systems
• Rectangular and Geometric Fixed Lite window shapes
• Patio Doors: In-Swing, Out-Swing, Sliding, Bi-Fold all with full view glass door panels

Highlights
• Modern styling of frames and sashes
• Sleek designs
• Narrow frame profiles
• Operating and Fixed Lite units
• Large glass area
• Combine multiple units
• Precise Horizontal and Vertical Alignment within frame systems
• Rigid Extruded Aluminum Exteriors
• Matching Extruded Aluminum Exterior Trim
• Powder Coated Finishes
• Wide selection of colors
• Metallic finishes
• Energy-Efficient Product Performance
• Beautiful Wood Interior
• Interior Wood Jamb Options
• Drywall Return Integration Option
• Custom Paint or Stain Interior Finish Options
• Stylish Hardware in a variety of finishes
• Standard or Custom Sizes
• Design & Engineering support
Traditional Design

Some things just never get old and good design is one of them. That is why Traditional home designs are always a mainstay in new home construction.

Sun windows and doors lend themselves to many decor designs and Traditional designs are a great fit. Our wood interiors allow you to paint or stain to coordinate with the rest of your decor. Our grille options can add that extra accent to help capture a Traditional look. Explore our products and options to find solutions for your designs . . . Traditional, Contemporary or anything in between.
**Product Highlights**
- Extruded Aluminum Exterior
- Integral Nail Fin
- Water Management System
- Powder Coat Exterior Finish
- Low-E Insulated Glass with Argon
- Duralite™ Glass Spacer System
- Ponderosa Pine Interior
- Complete Weather Seal Protection

**Features**
- Full View Sash
- Crank Out Sash Operation
- Full Opening Ventilation
- Folding Operator Handle
- Single Lever, Multi-point Latching System
- Adjustable Hinge System
- Interior Screen Mounting Channel
- Standard Jamb Depth = 4-9/16”

**Hardware**
- Operator & Cover
- Folding Handle
- Latch Handle & Cover

**Optional Hardware**
- Standard or Egress Hardware
  - Changes hinge point for wider clear opening
- Window Opening Control Device (WOCD)
  - Safety hardware, limits sash opening

**Hardware Finishes**
- Standard Finishes: White, Tan, Dark Bronze, Black
- Upgrade Finishes: Brushed Chrome, Brushed Nickel, Antique Brass, Polished Brass
  
  Upgraded finishes available at additional cost.

**Configuration Options**
- As viewed from exterior:
  - Left Hinged, Right Hinged, Fixed Sash
  - Mulled units up to 4 wide

**Sizes**
- Widths: 16”, 20”, 24”, 28”, 30”, 32”, 36”
- Heights: 32”, 36”, 40”, 44”, 48”, 52”, 56”, 60”, 64”, 72”, 78”

**Other Options**
- Exterior Colors ...................... p49
- Clad Exterior Trim .................... p47
- Low Emissivity Glass .............. p52
- Grille Types & Patterns .......... p50
- Interior Wood Finishes .......... p55
- Jamb Depth & Options .......... p54
- Screens ............................. p56
Arch Top Casement

Product Highlights
- Extruded Aluminum Exterior
- Integral Nail Fin
- Water Management System
- Powder Coat Exterior Finish
- Low-E Insulated Glass with Argon
- Duralite™ Glass Spacer System
- Ponderosa Pine Interior
- Complete Weather Seal Protection

Features
- Full View Sash
- Crank Out Sash Operation
- Full Opening Ventilation
- Folding Operator Handle
- Single Lever, Multi-point Latching System
- Side Jamb Mounted Hinges
- Interior Screen Mounting Channel
- Standard Jamb Depth = 4-9/16"

Hardware
- Operator & Cover
- Folding Handle
- Latch Handle & Cover
- Side Jamb Hinges

Optional Hardware
- Standard or Egress Hardware
  Changes hinge point for wider clear opening
- Window Opening Control Device (WOCD)
  Safety hardware, limits sash opening

Hardware Finishes
- Standard Finishes:
  - White, Tan, Dark Bronze, Black
- Upgrade Finishes:
  - Brushed Chrome, Brushed Nickel, Antique Brass, Polished Brass
    Upgrade finishes available at additional cost

Configuration Options
As viewed from exterior
- Single = Left Hinged, Right Hinged, Fixed Sash
- Double = Left + Right Hinged, Double Fixed Sash

Sizes
- Widths:
  - Single = 24", 28", 30", 32"
  - Double = 40", 48", 56", 64"
- Shoulder Heights:
  - 24", 40", 48", 52", 59", 64"

Other Options
- Exterior Colors........................p49
- Clad Exterior Trim ..................p47
- Low Emissivity Glass ...............p52
- Grille Types & Patterns ...........p50
- Interior Wood Finishes .............p55
- Jamb Depth & Options .............p54
- Screens................................p56

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Awning

Product Highlights
- Extruded Aluminum Exterior
- Integral Nail Fin
- Water Management System
- Powder Coat Exterior Finish
- Low-E Insulated Glass with Argon
- Duralite™ Glass Spacer System
- Ponderosa Pine Interior
- Complete Weather Seal Protection

Features
- Full View Sash
- Crank Out Sash Operation
- Limited Opening Ventilation
- Folding Operator Handle
- Dual Lever Latching System
- Interior Screen Mounting Channel
- Standard Jamb Depth = 4-9/16"*

Hardware
- Operator & Cover
- Folding Handle
- Latch Handle & Cover

Hardware Finishes
- Standard Finishes:
  - White, Tan, Dark Bronze, Black
- Upgrade Finishes:
  - Brushed Chrome, Brushed Nickel, Antique Brass, Polished Brass

Upgrade finishes available at additional cost.

Configuration Options
- As viewed from exterior
  - Mulled units up to 4 wide
  - Often combined with a fixed lite mulled above

Sizes

Other Options
- Exterior Colors ................. p49
- Clad Exterior Trim ............. p47
- Low Emissivity Glass ........... p52
- Grille Types & Patterns ........ p50
- Interior Wood Finishes ....... p55
- Jamb Depth & Options .......... p54
- Screens ................. p56

*optional

Other Options
- Exterior Colors ................. p49
- Clad Exterior Trim ............. p47
- Low Emissivity Glass ........... p52
- Grille Types & Patterns ........ p50
- Interior Wood Finishes ....... p55
- Jamb Depth & Options .......... p54
- Screens ................. p56
Double Hung
CADH - Clad Architectural Double Hung

Product Highlights
• Extruded Aluminum Exterior
• Integral Nail Fin
• Water Management System
• Powder Coat Exterior Finish
• Low-E Insulated Glass with Argon
• Duralite™ Glass Spacer System
• Ponderosa Pine Interior
• Complete Weather Seal Protection

Features
• Vertical Raise and Lower Sash Operation
• Tilt-In Sashes
• Sashes Tilt Inward by Finger Release Latches
• Hybrid Balance System on oversized units
• Concealed Jamb System
• Vinyl Fixed Jamb Tracks
• Locking-When-Tilted Balance Shoes
• Historically Correct Sash Profiles
• Standard Jamb Depth = 4-9/16”

Hardware
• Sash Lock and Keeper
• Tilt Latches & Covers
• Block and Tackle Balance System

Optional Hardware
• Window Opening Control Device (WOCD)
  Safety hardware, limits sash opening

Hardware Finishes
• Standard Finishes:
  White, Tan, Brown, Dark Bronze, Black
• Upgrade Finishes:
  Brushed Chrome, Brushed Nickel, Antique Brass, Polished Brass
  Upgrade finishes available at additional cost.

Configuration Options
As viewed from exterior
• Sash Split - Standard (50/50), Cottage (40/60), Oriel (60/40)
• Can be mullied with other units

Sizes
• Widths: 20”, 24”, 28”, 32”, 36”, 40”, 44”, 48”
• Heights: 35-1/2”, 39-1/2”, 47-1/2”, 51-1/2”, 55-1/2”, 61-1/2”, 63-1/2”, 71-1/2”, 75-1/2”, 77-1/2”

Other Options
• Exterior Colors .........................p49
• Clad Exterior Trim ..................p47
• Low Emissivity Glass .........p52
• Grille Types & Patterns ..........p50
• Interior Wood Finishes ..........p55
• Jamb Depth & Options ..........p54
• Screens ...............................p56

Standard Cottage Oriel
Double Hung
Comfort-Tilt

Product Highlights
- Extruded Aluminum Exterior
- Integral Nail Fin
- Water Management System
- Powder Coat Exterior Finish
- Low-E Insulated Glass with Argon
- Duralite™ Glass Spacer System
- Ponderosa Pine Interior
- Complete Weather Seal Protection

Features
- Vertical Raise and Lower Sash Operation
- Tilt-in Sashes
- Sashes Tilt Inward by Finger Release Latches
- Rectangle Profile Sash Lock Rail
- Positive Contact Floating Jamb Liners
- Concealed Jamb Liner Exterior Face
- Spring Balance System
- Locking-When-Tilted Sash Balance Shoes
- Exterior Screen Track
- Standard Jamb Depth = 4-9/16”

Hardware
- Sash Lock and Keeper
- Tilt Latches & Covers
- Spring Balance System

Optional Hardware
- Window Opening Control Device (WOCD)
  Safety hardware, limits sash opening

Hardware Finishes
- Standard Finishes:
  White, Tan, Brown, Dark Bronze, Black
- Upgrade Finishes:
  Brushed Chrome, Brushed Nickel, Antique Brass, Polished Brass
  Upgrade finishes available at additional cost.

Configuration Options
As viewed from exterior
- Sash Split - Standard (50/50), Cottage (40/60), Oriel (60/40)
- Can be mullied with other units

Sizes
- Widths: 20”, 24”, 28”, 32”, 36”, 40”, 44”

Other Options
- Exterior Colors .................p.49
- Clad Exterior Trim ...............p.47
- Low Emissivity Glass ...........p.52
- Grille Types & Patterns ........p.50
- Interior Wood Finishes .........p.55
- Jamb Depth & Options ..........p.54
- Screens .........................p.56

White Tan Brown Dark Bronze Black
Brushed Chrome Brushed Nickel Antique Brass Polished Brass
Double Hung
Replacement Options

Replacement Window
The Comfort-Tilt Double Hung is also available with 3-1/8” pocket depth for insert/pocket window installation applications. This frame has an exposed jamb liner exterior face.

The rest of the Features and Options remain the same as the standard new construction Comfort-Tilt.

Sash Pack
Sun’s Sash Pack is designed to convert your old wood or clad wood double hung to a new, energy-efficient window. Each Sash Pack includes two clad wood sashes with your choice of Sun Insulated Glass. You may also select from our Grille Options to accent your windows. A pair of vinyl jamb liners with our spring balance system and tilt-sash pivot shoes will apply to the side jamb pockets of your old frame. Retaining clips and screws are also included.
Sash Set Fixed Lite
Fixed Lites, Transoms, Radius Shapes, Geometric Shapes

Product Highlights
• Extruded Aluminum Exterior
• Integral Nail Fin
• Water Management System
• Powder Coat Exterior Finish
• Low-E Insulated Glass with Argon
• Duralite™ Glass Spacer System
• Ponderosa Pine Interior
• Complete Weather Seal Protection

Features
• Full View Sash
• Fixed Sash / Non-Opening
• Standard Jamb Depth = 4-9/16”

Shapes
• Rectangles / Including Transoms
  • Radius: Arch Top, Extended Arch Top, Segmented Arch Top, Round Top, Extended Round Top, Quarter Round Top, Extended Quarter Round Top, Eyebrow, Gothic, Full Circle, Ovett
  • Geometric: Isosceles Triangle, Right Triangle, Trapezoid, Parallelogram, Slipped Parallelogram, Truncated Hip, Clipped Corner (single & double), Pentoid, Hexagon, Octagon

Sizes
• Widths: 16”, 20”, 24”, 28”, 32”, 36”, 40”, 48”, 56”, 64”, 72”
• Heights: 16”, 20”, 24”, 28”, 32”, 36”, 40”, 48”, 56”, 64”, 72”, 78”

Other Options
• Exterior Colors........................p49
• Clad Exterior Trim ...................p47
• Low Emissivity Glass ...............p52
• Grille Types & Patterns............p50
• Interior Wood Finishes............p55
• Jamb Depth & Options..............p54

Sash Set
Direct Set

Pentoid
Double Clipped Corner
Hexagon
Octagon

Isosceles Triangle
Right Triangle
Trapezoid
Clipped Corner

Parallelogram
Truncated Hip
Slipped Parallelogram

Segmented Arch Top
Segmented Round Top
Quarter Round Top

Arch Top
Round Top
Eyebrow
Full Circle

Rectangular
Parallelogram
**Product Highlights**
- Extruded Aluminum Exterior
- Integral Nail Fin
- Water Management System
- Powder Coat Exterior Finish
- Low-E Insulated Glass with Argon
- Duralite™ Glass Spacer System
- Ponderosa Pine Interior
- Complete Weather Seal Protection

**Features**
- Full View / Non-Opening window
- Narrow Frame for maximum daylight opening
- Standard Jamb Depth = 4 9/16”

**Shapes**
- Rectangles / Including Transoms
- Radius: Arch Top, Extended Arch Top, Segmented Arch Top, Round Top, Extended Round Top, Quarter Round Top, Extended Quarter Round Top, Eyebrow, Gothic, Full Circle, Oval
- Geometric: Isosceles Triangle, Right Triangle, Trapezoid, Parallelogram, Slipped Parallelogram, Truncated Hip, Clipped Corner (single & double), Pentoid, Hexagon, Octagon

**Sizes**

**Other Options**
- Exterior Colors........................p49
- Clad Exterior Trim ...................p47
- Low Emissivity Glass ...............p52
- Grille Types & Patterns............p50
- Interior Wood Finishes............p55
- Jamb Depth & Options..............p54
In-Swing Door

Product Highlights
• Extruded Aluminum Exterior
• Integral Nail Fin
• Water Management System
• Low-E Insulated Glass with Argon
• Duralite™ Glass Spacer System
• Ponderosa Pine Interior
• Complete Weather Seal Protection

Features
• Full View Glass Door Panel
• Tempered Glass
• In-Swing / Hinged Operating Door Panel
• Single Point Latching System standard on 6-8 & 6-11 heights
• Multi-point Latching System standard on 8-0 heights
• Adjustable Hinges
• No-Warp / LVL Lock Side Stile
• 4-11/16” Panel Rails & Stiles
• Standard Jamb Depth = 4-9/16”

Handle Set Styles
• Venice (standard)
• Torino (upgrade)
• Roma (upgrade)

Hardware Finishes
• Standard Finishes:
  - White, Dark Bronze, Black
• Upgrade Finishes:
  - Satin Chrome, Satin Nickel, Pewter, Antique Brass, Polished Brass

Hinge Finishes
• Stainless Steel, Dark Bronze, White, Black, Antique Brass, Polished Brass

Configuration Options
• Operation – Hinge Left, Hinge Right or Fixed panel
• True French – Left or Right Active panel

Sizes
• Widths:
  - 1-panel: 2-6, 2-8, 3-0, 3-3
  - 2-panel: 4-0, 5-0, 5-4, 6-0, 6-6
  - 3-panel: 7-6, 8-0
• Heights: 6-8 retro, 6-11, 8-0

Handle Set Styles
• Venice (standard)
• Torino (upgrade)
• Roma (upgrade)

Hardware Finishes
• Standard Finishes:
  - White, Dark Bronze, Black
• Upgrade Finishes:
  - Satin Chrome, Satin Nickel, Pewter, Antique Brass, Polished Brass

Hinge Finishes
• Stainless Steel, Dark Bronze, White, Black, Antique Brass, Polished Brass

Configuration Options
• Operation – Hinge Left, Hinge Right or Fixed panel
• True French – Left or Right Active panel

Sizes
• Widths:
  - 1-panel: 2-6, 2-8, 3-0, 3-3
  - 2-panel: 4-0, 5-0, 5-4, 6-0, 6-6
  - 3-panel: 7-6, 8-0
• Heights: 6-8 retro, 6-11, 8-0

Other Options
• Door Panel Options .......... p42
• Exterior Colors ............... p49
• Clad Exterior Trim .......... p47
• Low Emissivity Glass ........ p52
• Grille Types & Patterns ...... p50
• Interior Wood Finishes ....... p55
• Jamb Depth & Options ...... p54
• Screens ......................... p56

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Out-Swing Door

**Product Highlights**
- Extruded Aluminum Exterior
- Integral Nail Fin
- Water Management System
- Powder Coat Exterior Finish
- Low-E Insulated Glass with Argon
- Duralite™ Glass Spacer System
- Ponderosa Pine Interior
- Complete Weather Seal Protection

**Features**
- Full View Glass Door Panel
- Tempered Glass
- Out-Swing / Hinged Operating Door Panel
- Single Point Latching System standard on 6-8 & 6-11 heights
- Multi-point Latching System standard on 8-0 heights
- Adjustable Hinges
- No-Warp / LVL Lock Side Stile
- 4-11/16" Panel Rails & Stiles
- Standard Jamb Depth = 4-9/16"

**Handle Set Styles**
- Venice (standard)
- Torino (upgrade)
- Roma (upgrade)

**Hardware Finishes**
- Standard Finishes: White, Dark Bronze, Black
- Upgrade Finishes: Satin Chrome, Satin Nickel, Pewter, Antique Brass, Polished Brass

**Hinge Finishes**
- Stainless Steel, Dark Bronze, White, Black, Antique Brass, Polished Brass

**Configuration Options**
- Operation - Hinge Left, Hinge Right or Fixed panel
- True French - Left or Right Active panel

**Sizes**
- Widths:
  - 1-panel: 2-6, 2-8, 3-0, 3-3
  - True French: 4-0, 5-0, 5-4, 6-0, 6-6
- Heights: 6-8 retro, 6-11, 8-0

**Other Options**
- Door Panel Options ...............p42
- Exterior Colors ..................p49
- Clad Exterior Trim .............p47
- Low Emissivity Glass ..........p52
- Grille Types & Patterns ........p50
- Interior Wood Finishes ........p55
- Jamb Depth & Options ...........p54
Arch Top Door

Product Highlights
• Extruded Aluminum Exterior
• Integral Nail Fin
• Water Management System
• Powder Coat Exterior Finish
• Low-E Insulated Glass with Argon
• Duralite™ Glass Spacer System
• Ponderosa Pine Interior
• Complete Weather Seal Protection

Features
• Full View Glass Door Panel with Arched Top
• Tempered Glass
• Hinged Operating Door Panel
• Single Point Latching System standard on 6-8 & 6-11 heights
• Multi-point Latching System standard on 8-0 heights
• Adjustable Hinges
• No-Warp / LVL Lock Side Stile
• 4-11/16" Panel Rails & Stiles
• Standard Jamb Depth = 4-9/16"

Handle Set Styles
• Venice (standard)
• Torino (upgrade)
• Roma (upgrade)

Hardware Finishes
• Standard Finishes:
  White, Dark Bronze, Black
• Upgrade Finishes:
  Satin Chrome, Satin Nickel, Pewter
  Antique Brass, Polished Brass
  Upgrade styles and finishes available at additional cost

Hinge Finishes
• Stainless Steel, Dark Bronze, White, Black, Antique Brass, Polished Brass

Configuration Options as viewed from exterior
• Available as In-Swing or Out-Swing door
• Operation - Hinge Left, Hinge Right or Fixed panel
• True French - Left or Right Active panel

Sizes
• Widths:
  1-panel - 2-4, 2-8, 3-0, 3-3
  2-panel - 4-0, 5-0, 5-4, 6-0, 6-6
• Heights:
  6-8 retro, 6-11, 8-0

Other Options
• Door Panel Options ................. p42
• Exterior Colors ...................... p49
• Clad Exterior Trim ................... p47
• Low Emissivity Glass ............ p52
• Grille Types & Patterns .......... p50
• Interior Wood Finishes .......... p55
• Jamb Depth & Options .......... p54

Screws - 1 Panel

Screws - 2 Panel

Options & Finishes

Venice
Torino
Roma

1-Panel
2-Panel

White, Dark Bronze, Satin Chrome, Satin Nickel, Pewter, Antique Brass, Polished Brass
Sliding Door

Product Highlights
• Extruded Aluminum Exterior
• Integral Nail Fin
• Water Management System
• Powder Coat Exterior Finish
• Low-E Insulated Glass with Argon
• Duralite™ Glass Spacer System
• Ponderosa Pine Interior
• Complete Weather Seal Protection

Features
• Full View Glass Door Panel
• Tempered Glass
• Sliding Operating Door Panel
• Dual Latch System
• Stainless Steel Tandem Rollers
• Fiberglass Pultruded Sill
• No-Warp / LVL Lock Side Stile
• Dual Panel Rails & Stiles
• Standard Jamb Depth = 4-9/16"

Handle Set Styles
• Intuition (standard)
• Involute (alternate)
• Crest - large or small (upgrade)

Hardware Finishes
• Standard Finishes:
  - White, Almond, Dark Bronze
  - Black (Intuition only)
• Upgrade Finishes:
  - Brushed Chrome, Brushed Nickel
  - Antique Brass, Polished Brass
• Crest Finishes:
  - White, Black, Brushed Chrome, Brushed Nickel
  
Upgrade styles and finishes available at additional cost

Configuration Options
• Operation - Left Sliding, Right Sliding, Fixed panel

Sizes
• Widths:
  - 1-panel (fixed): 2-6, 2-8, 3-0, 4-0
  - 2-panel: 5-0, 6-0, 8-0
  - 3-panel: 7-6, 9-0, 12-0
  - 4-panel: 10-0, 12-0, 16-0
• Heights:
  - 6-8 retro, 6-11, 8-0

Other Options
• Footbolt - White, Bronze
• Door Panel Options ...............p42
• Exterior Colors .....................p49
• Clad Exterior Trim .................p47
• Low Emissivity Glass ..........p52
• Grille Types & Patterns ........p50
• Interior Wood Finishes ..........p55
• Jamb Depth & Options ..........p54
• Screens ..........................p56
Bi-Fold Door

Product Highlights
• Extruded Aluminum Exterior
• Integral Nail Fin
• Powder Coat Exterior Finish
• Low-E Insulated Glass with Argon
• Duralite™ Glass Spacer System
• Ponderosa Pine Interior
• Complete Weather Seal Protection

Features
• Full View Glass Door Panel
• Tempered Glass
• Bi-folding Door Panels
• Multi-point Latching System
• No-Warp / LVL Side Stiles
• 4-11/16" Panel Rails & Stiles
• Standard Jamb Depth = 6-9/16" *

Handle Set Styles see Out-Swing Door page
• Venice (standard)
• Torino (upgrade)
• Roma (upgrade)

Hardware
• E3 Bi-Fold Hardware by Centor Architectural

Hardware Finishes
• Stainless Steel
• Polished Brass

Panel Sizes
• Widths: 2-6, 2-8, 3-0, 3-3
• Heights: 6-8 retro, 6-11, 8-0

Other Options
• Magnetic Door Catch
  holds doors in stacked position
• Door Panel Options ..........p42
• Exterior Colors ..................p49
• Clad Exterior Trim ...............p57
• Low Emissivity Glass ..........p52
• Grille Types & Patterns ..........p50
• Interior Wood Finishes .........p55
• Jamb Depth & Options ..........p54
Door Panel Options
Bottom Rail Height. Solid Panel Inserts. Color Options
Available on all doors

Bottom Rail Height

All standard Sun doors use a common glass door panel with equal stiles and rails. An optional Tall bottom rail is available for applications requiring such a profile.
- Standard Rail = 4 11/16"  
- Tall Bottom Rail = 10"  

Solid Panel Insert/Kick Panel

Our standard door panel is a full view glass door panel. However, you can add Solid Panel Inserts to create a panel with a mixture of glass and solid surfaces to suit your project designs.
- Panel Configurations:  
  Standard, 1/4, 1/3, 1/2, 3/4, Full (See page 41)  
  Interior Panel - beveled wood panel  
  Exterior Panel - heavy aluminum flat panel  
  Exterior Shadowbox - SDL bars applied to flat panel  
  Low-profile bars: 1/8", 1/4", 1/4", 2 1/4"  

Color Options

In addition to the the configuration options, the exterior flat panel, the shadowbox, the door panel and the door frame can all be treated with your choice of any Sun colors. This opens up a lot of design possibilities. See Exterior Colors page for more information about our color selections.
Clad Exterior
Heavy Gauge Extruded Aluminum

Highlights
• Highly resistant to the effects of weather
• Does not rust like other metal
• Does not rot, decay, warp or distort like wood
• Heavy Gauge Aluminum does not easily dent like roll-form
• Exceptional strength and long life for the product
• Protects the interior wood components
• Protects the building in which it is installed
• Designed with Sun’s Water Management System
• Designed with Sun’s Integral Nail Fin as part of the frame
• Finished with Sun’s High-Durability Powder Coating
• Available in a wide selection of Exterior Finish Colors

Integral Nail Fin
• Provides a strong, rigid fastening method
• Integral part of the exterior frame extrusion
• Easy to integrate with weather resistive barrier systems
• Can be removed for replacement applications

Water Management System
• Two Levels of protection
• Level 1: Silicone glazing prevents water penetration around glass
• Level 2: Sash/Panel drain vent system provides safe exit path for water or moisture if it ever gets past the glazing seal
• Protects the interior wood components
• Protects the insulated glass seal
• Protects the building in which it is installed

Clad Exterior Comparison
Compare Sun’s Extruded Aluminum to Roll-Form and Painted Wood

All Sun Clad Wood products use Extruded Aluminum Cladding on the sash and frame

Superior Strength
• .045 to .060 thickness (depending on product)
• Will not warp
• Enhances Structural Strength

More Durable
• Harder to dent
• Protects interior wood components from weather damage

Water Management
• Built-in water and moisture exit pathway prevents water from being trapped within the sash or panel, preventing damage to internal components and glass seal

Powder Coat Finish
• Hard, durable commercial grade finish outperforms paint, environmentally friendly

True Match Factory Finish
• Extruded Aluminum on frame, sash, panel provides true match of finish, equal weatherability

Competitor products using Roll-Form Aluminum Cladding over wood sash, extruded frame

Little Strength
• .024 thickness
• Adds little to no strength to the sash

Less Durable
• Easy to dent
• Corner seams have weak seal against water penetration
• Only moderate protection against weather damage

No Water Management
• Wood sash, no exit path for water or moisture, trapped water damages components and insulated glass seal

Painted Finish
• Not as durable, not friendly to the environment

Color Variations
• Colors/Finishes on different cladding materials between sash and frame can vary and weather at different rates and lead to mis-match of the finish

Competitor products using Paint on Wood Sash with vinyl glazing

No Strength
• Paint provides no strength to the sash

Least Durable
• Least protection against weather damage
• Must be repainted regularly to maintain any protection

No Water Management
• Wood sash, no exit path for water or moisture, trapped water damages components and insulated glass seal

Painted Finish
• Not as durable, not friendly to the environment

Color Variations
• Paint on wood sash will weather differently from other frame material and vinyl glazing and lead to miss-match of the finish
Water Management System
Two Levels of Protection

Guarding Against Water Damage
Exposure to the elements can be tough on the primary glazing of any window or door. Eventually, this can cause small gaps to open up in the seal, allowing water or moisture into the inner structure of the sash or panel. This can lead to damage to the interior wood components and the insulated glass seal. Sun’s Water Management System provides two levels of protection against this problem.

Level 1 Protection: Silicone Glazing
Almost all clad wood windows offer some form of Level 1 protection. Sun uses silicone glazing to seal between the glass and the edge of the glazing channel. However, over time, this seal will likely fail due to the harsh effects of the weather. When this occurs, water or moisture will begin to enter the inner structure of the sash or panel, as well as the glazing channel. This will happen to any brand window or door. Once this happens, it can become trapped and cause deterioration of the wood components and the insulated glass seal.

Level 2 Protection: Venting/Draining System
The design of Sun’s window sashes and door panels includes a pathway that allows water or moisture to drain or vent to the exterior of the unit. This also allows the inner structure to dry out, preventing damage to the interior wood components and the insulated glass seal.

Exterior Trim & Accessories
Brick Mold, Flat Casing, Multi-Covers, SDL Bars

Exterior Trim
An extruded aluminum exterior trim system is available on Sun Clad products to enhance the visual appeal of the windows and doors and increase the accent they contribute to the home’s exterior. All of the extrusions are powder coated to coordinate with the windows and doors. They can be the same color or an alternate accent color.

- Traditional Brick Mold
- Georgian Brick Mold
- 3-1/2" Flat Casing
- 5/8" Sill Nose
- 1-1/8" Sill Nose

Accessories
Other accessories include exterior mulls and SDL bars. All of the extrusions are powder coated to coordinate with the windows and doors. They can be the same color or an alternate accent color of your choice.

Exterior Trim
Brick Mold, Flat Casing, Multi-Covers, SDL Bars

Exterior Trim
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- Traditional Brick Mold
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- 5/8" Sill Nose
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Accessories
Other accessories include exterior mulls and SDL bars. All of the extrusions are powder coated to coordinate with the windows and doors. They can be the same color or an alternate accent color of your choice.
Powder Coat Finish
High-Durability. AAMA 2604 & 2605

Sun selected Powder Coating as our exterior finish of choice for our aluminum clad windows and doors because of its outstanding weather resistance, film toughness, extensive range of colors, and its low environmental impact.

Our powder coated aluminum extrusions have a thick, hard finish which is tougher than conventional painted finishes. The finish has a long life with excellent resistance to chipping, cracking, peeling and fading.

Our standard finish meets AAMA 2604 requirements and allows us to provide a 20 year finish warranty. An optional AAMA 2605 finish is available for projects requiring more specialized coverage. This finish provides a 30 year finish warranty.

Exterior Finish Colors
Standard Colors, Upgrade Feature Colors, Premium Metallic Finishes

Sun's Powder Coat Finish is available in a wide range of Standard Colors, Upgrade Feature Colors, Premium Metallic Finishes and Custom Color Matching. You even have the option of using various color combinations to create a unique visual accent. Ask your Dealer for a Color Sample Swatch to see exact color.

Standard Colors
- Bone White
- Milk White
- Ivory
- Sandtone
- Sandstone Brown
- Bronze
- Classic Bronze
- Nightshade Grey
- Squishee Brown
- Brick Red
- Richwood
- Copper Red
- Eggplant
- Dark Grey
- Charcoal Grey
- Black
- Light Green
- Dark Green
- Hartford Green
- Military Blue
- Midnight Blue

Upgrade Feature Colors
- Venetian
- Beige
- Seaward Grey
- Light Grey
- Black
- Atlantic Grey
- Dark Bronze
- Java Brown
- Almond Blue
- Deep Blue
- Dark Grey
- Intensive Green

Premium Metallic Finishes
- Arctic Ice
- Venetian Silver
- Grey 2650 Silver
- Grey 2600 Silver
- Chrome Silver
- Select Silver
- Burgundy Blue
- Shadow Grey
- Blue 1200 Silver
- Warm Grey
- Burgundy
- Pantheon
- Mahogany
- Golden Bronze
- Alumilite Bronze
- Anochrome
- Bronze Mica
- Iron Oxide
- Red
- Copper
- Architectural Bronze
- Manganese
- Bronze
- Sun 2000 Silver
- Sun 2280 Silver

Custom Color Match*: Provide us a sample of the color to match or even an RAL number and we will produce your windows and doors in your own custom color.
Grille Systems
Simulated Divided Lite. Interior Wood Grilles, Grilles Between the Glass

SDL (Simulated Divided Lite) - Raised Profile
Exterior: raised profile, aluminum grille bar, permanently applied
Interior: wood grille, permanently applied
Between: black shadow bar sealed between glass
Bar Profile widths: 5/8", 1", 1-1/4", 2-1/4"
Exterior Bar Colors: any Sun Exterior Color
Interior Wood Grille finish: matches interior wood finish choice

SDL (Simulated Divided Lite) - Low Profile
Exterior: low profile, aluminum grille bar, permanently applied
Interior: wood grille, permanently applied
Between: black shadow bar sealed between glass
Bar Profile widths: 5/8", 1", 1-1/4", 2-1/4"
Exterior Bar Colors: any Sun Exterior Color
Interior Wood Grille finish: matches interior wood finish choice

WSG (Wood Surround Grille)
Exterior: not applicable
Interior: wood grille with wood surround frame, removable
Between: not applicable
Bar Profile widths: 5/8", 1", 1-1/4"
Exterior Bar Colors: not applicable
Interior Wood Grille finish: matches interior wood finish choice

GBG (Grilles Between Glass)
Exterior: not applicable
Interior: not applicable
Between: contoured aluminum grille
Bar Profile widths: 3/4"
Bar Colors: white, vanilla, beige, sand, bronze, black, green
Optional: Two color combinations *= sand/white, bronze/white, black/white
*exterior/exterior facing, reverse facing also available

SCR (Simulated Check Rail)
This is a variation of our SDL using a 2-1/4" profile bar horizontally across a Casement or Sash Set Fixed Lite window to simulate the look of a double hung window check rail. It can be used by itself or combined with our 5/8", 1" or 1-1/4" SDLs.

SM (Simulated Mull)
Variation of our SDL using a 2-1/4" profile bar vertically on a Casement or Sash Set Fixed Lite window to simulate the look of a vertical mull. Can be a single or double bar depending on the look that is desired. Can be combined with our 5/8", 1" or 1-1/4" SDLs.

Grille Patterns
Available in Standard and Custom Configurations

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<thead>
<tr>
<th>Grille Pattern</th>
<th>Casement</th>
<th>Double Hung</th>
<th>Door</th>
<th>Round Top</th>
<th>Arch Top</th>
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Insulated Glass

Dual Glazed Insulated Glass
• Two Pieces of Glass
• 1/2” Hermetically Sealed Airspace
• Argon Filled
• Duralite™ Glass Spacer

Triple Glazed Insulated Glass
• Three Pieces of Glass
• Two - 1/2” Hermetically Sealed Airspaces
• Argon Filled
• Duralite™ Glass Spacer

Sun Advantage 270 Low-E² Glass
• Second generation Low-E²
• Two layers of silver block reflective heat transfer for year round comfort
• Most Effective in combination hot and cold climates
• Blocks 86% UV
• Permits 70% Visible Light

Sun Advantage 366 Low-E³ Glass
• Third generation Low-E³
• Three layers of silver block reflective heat transfer for year round comfort
• All Climates
• Blocks 95% UV
• Permits 65% Visible Light

Add I-89 to 270 or 336 IG Unit
• Adds a layer of Low-E coating to the 4th surface of the Insulated Glass unit
• Increases Thermal Performance
• Primarily used to help meet thermal performance ratings in northern climates

Solar Passive 180
• Specialty Applications
• Reduces through-glass heat loss to the outside
• Allows Solar Heat to enter
• For Northern Climates

Obscure Glass
• P516 Typical Obscure
• Niagara Patterned Obscure Glass

Tempered Glass
• Available for applications that require Tempered Glass
• Standard on all Sun Doors

Duralite™ Glass Spacer
Industry Leading All Non-Metallic Spacer System

Duralite™ is an all non-metallic spacer system that provides the best thermal performance in the industry. Its flexible properties ensure a superior glass seal and the highest Argon gas retention in the industry.

The spacer is applied in a single, continuous path following the perimeter of the glass. This is important primarily because it results in a single corner seam. The other three corners are formed as bends in the spacer with no joint or seam. This helps give our insulated glass units an excellent hermetic seal and superior Argon gas retention. Most other glass spacer systems require each corner to be mechanically joined and sealed.

Argon is an inert gas, heavier than air, used to fill the sealed air space of high-performance insulated glass units. It has no harmful effects. Filling the sealed air space with Argon improves thermal performance by slowing convection currents within the sealed insulated unit.

Key Features of Duralite™
• Non-Metallic
• Composite Laminating Technology
• Impermeable to gas and water vapor
• Smooth visible surface appearance
• Proven Adhesive Technology
• Superior Argon Gas Retention
• Lowest Conductivity Warm-Edge Spacer
• Improves Condensation Resistance of IG unit
• Provides Warmer Edge-Of-Glass Temperature
• Superior Edge Seal Properties
Jamb Depth & Options
Jamb Depth, Jamb Extensions, Step Jamb and more

**Standard Jamb Depth**

= 4-9/16”

**Interior Jamb Extensions**

Single Piece Wood Extension up to 6-9/16”

**3-1/8” Insert / Pocket Window Jamb**

Allows window to be used in 3-1/8” insert/pocket window and retro-fit applications

- Double Hung Insert/Pocket Jamb
- Casement & Sash Set - No Jamb Wood Surround

**3-3/4” Drywall Return Jamb**

- Casement and Sash Set Windows
- Full Perimeter Wood Surround on jamb face provides backing surface for drywall return
- Also useful for custom extensions applied on job site

**Step Jamb**

- Casement and Sash Set Windows
- Moves the standard Jamb Wood Surround to the outer edge to accommodate interior trim alignment with non-casement or non-sash set products

**In-Swing Door Exterior Frame Extension**

- For 6-9/16” Jamb Depth on In-Swing Doors

Wood Interior
Ponderosa Pine and Wood Finish Options

**Ponderosa Pine**

Nothing beats the warmth and appeal of wood for the interior of your windows and doors. Sun clad wood products feature clear Ponderosa Pine interiors that are ideally suited for staining or painting. Ponderosa Pine is known for its straight uniform grain and excellent finishing characteristics. You can choose to have your windows and doors delivered without any interior finish so that you can stain or paint them yourself or you may select to have them primed or painted at the factory with your choice of one of our standard interior finish colors.

**Interior Finish Options**

- No Finish
- Factory Primed
- Factory Painted in your choice of one of our standard colors

**Alternate Wood Species**

If you want something really special, Sun will build your windows and doors out of an alternate wood species. Several native wood species are available and offer the unique character of their distinctive grain and color. Contact your Sun Representative for more information and an alternative wood species quote.
Screens
Roll-Form Frame, Extruded Frame, Retractable, Flex Screen, BetterVue™, UltraVue™

Screen Mesh with Water Shed Technology™
Our standard screen mesh is BetterVue™ Insect Screen. BetterVue™ mesh is woven from finer stands which helps provide 10% clearer view than typical screen mesh. UltraVue™ is available as an upgrade. It provides 15% clearer view. Both types now include Water Shed Technology™ which provides a clearer view for the life of the product by repelling water and resisting dirt and grime, making them much less likely to accumulate on the screen.

Roll-Form Screen Frame
• Available on most products
• Standard Screen Frame
• Colors = White, Sand, Dark Bronze

Extruded Screen Frame
• Available on most products
• Heavy-Duty, Durable, Extruded Aluminum
• Colors = Any Sun Exterior Color

Sliding Screen for Doors
• Available on 2-panel In-Swing & Sliding Doors
• Heavy-Duty, Durable, Extruded Aluminum
• Colors = Any Sun Exterior Color

Retractable Roll-Up Screen
• Available on Casement Windows Only
• Retractable into head compartment
• Lowers to cover opening when needed
• Mounts to the window interior
• Wood veneer coordinates with window interior

Flex Screen
• Available on Clad Architectural Double Hung Only
• Flexible black steel frame bonded to screen mesh
• Easy to install and remove

Protection & Performance
Weather Seals, Energy Performance, Structural Performance

Protection from Air and Water Intrusion
A combination of our product designs, the materials we use, and our manufacturing processes produce windows and doors with outstanding air-infiltration performance. Complete weather stripping and secure sash and panel closure provide air-tight seals. Our window air-infiltration ratings out-pace the industry standards and many of our competitors.

Energy Performance
Energy Performance is reported as a group of values designated by the Nation Fenestration Ratings Council (NFRC) to provide meaningful, comparative data for windows, doors and skylights. The NFRC has determined that these values represent the key energy performance factors when measured and reported in a standardized method.

These values are:
• U-Value
• Solar Heat Gain Coefficient (SHGC)
• Visible Light Transmittance (VLT)
• Condensation Resistance (CR)
• Air Leakage or Air Infiltration

All performance values are determined through product testing following industry standard specifications. Actual product performance will depend on the specific details of the application in which the product is installed. This includes how well the product was installed, the physical environment and conditions of the location, as well as other factors. Our ratings are available on our website, in the Technical Section.

Design Pressure, Air, Water & Structural Performance
Physical Testing and Certification of the design performance of windows and doors is done to meet code and specification requirements. The products are tested and rated in accordance with 101/5.2/A440-08 Standard for Windows, Doors and Skylights.

They are tested and rated for the following:
• Design Pressure
• Air Leakage (Infiltration)
• Water Performance
• Structural Test Pressure

All performance values are determined through product testing following industry standard specifications. Actual product performance will depend on the specific details of the application in which the product is installed. This includes how well the product was installed, the physical environment and conditions of the location, as well as other factors. Our ratings are available on our website, in the Technical Section.
SunClad™ Residential Window and Door Products Limited Warranty

Effective Date - Beginning August 15th, 2010

Sun Windows, Inc. provides this Limited Warranty to cover Sun Clad Residential window and door products sold and installed in the United States of America. This warranty extends to the owner of the structure in which the products are originally installed and is fully transferable.

Glass Components
- Insulated Glass Seal for Twenty Years
- Spontaneous Glass Breakage for One Year

Wood Components
- Wood components are warranted against cellular structural failure (wood cellular break down) for a period of Ten Years

Exterior Finish
- Sun’s standard D2000 finish meets AAMA 2604 specifications
- Warranted for Twenty Years against peeling, blistering, cracking, checking and loss of adhesion
- Warranted for Ten Years against chalking, fading, and color change
- Sun’s optional D3000 finish meets AAMA 2605 specifications
- Warranted for Thirty Years against peeling, blistering, cracking, checking and loss of adhesion
- Warranted for Fifteen Years against chalking, fading, and color change

Operating Hardware
- All non-electric operating hardware is warranted to operate properly for Ten Years
- Weather Stripping is warranted to function correctly for a period of Ten Years
- Electric operating hardware is warranted for a period of One Year

All Other Components
All other components not specified elsewhere are covered for a period of Ten Years

For full details, see our complete warranty in the Support Section of our website.

Customer Service
Contact Information, Quotes & Prices

Contact Us
Physical Address: Sun Windows, Inc. / 1515 E 18th St / Owensboro, KY 42303
Mailing Address: Sun Windows, Inc. / PO Box 1329 / Owensboro, KY 42302-1329
Hours: 7:30 AM to 4:30 PM Central Time - Monday through Friday
Phone: 1-270-684-0691
FAX-Customer Service: 1-270-926-6452
FAX-Sales: 1-270-684-0631
FAX-Shipping: 1-270-684-4594
info@sunwindows.com

What’s The Price?
Sun Products are “Made-To-Order”. This means that you get the windows you want with the features and options you want, not what is sitting on a self.

We do not publish standard prices because the price you really want to know is the one for the exact product and configuration that you select. Therefore, you will need to have your project quoted to see an accurate price.

Contact your Sun Dealer for a quote. If you do not have a Sun Dealer in your area, contact our Customer Service Department and they will be glad to assist you.