

CompositWood®

BY INTERSTATE

The Next Generation of Windows



WINDOWS ENGINEERED
TO LAST *Beautifully.*

It's a New Chapter in the History of Windows...



CompositWood®
BY INTERSTATE

CompositWood, the next generation of windows, is a revolutionary material blended with timeless design that surpasses the ambitions of even the most well known window manufacturers.

WHY COMPOSITWOOD?

Nothing defines a home like the elegance and warmth of wood windows, but the maintenance problems and expenses associated with wood are simply overwhelming.

Metal and clad wood windows were only partial solutions. In the industry-wide pursuit of window excellence, CompositWood is the answer.

Revolutionary
Beautiful
Efficient
Timeless



WHAT IS COMPOSITWOOD®?

CompositWood is made from a proprietary mix of specialty polymer and acrylic resins, creating a better than wood “engineered composite”, super tough, solid core material. A permanent surface technology called “SuperCap™” is then fused to the core materials during the extrusion process.

CompositWood is simply the best window you can buy. It provides the warmth of a finely milled wood window without the problems associated with wood.

EXCLUSIVE SuperCap™ SURFACE TECHNOLOGY

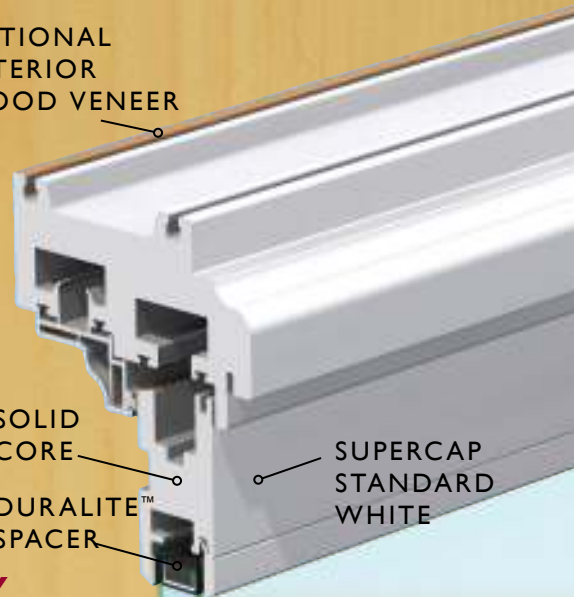
SuperCap, a permanent pre-finished surface has over 4 years of extreme outdoor sun exposure testing in Florida and Arizona. A lifetime of virtually no-maintenance benefits, SuperCap keeps windows and doors looking good over time. The cap brings protective ingredients to the profile surface, where they provide superior weathering and thermal performance.

OPTIONAL
INTERIOR
WOOD VENEER

SOLID
CORE

DURALITE™
SPACER

SUPERCAP
STANDARD
WHITE



CompositWood® Windows Make Good Sense.



ADVANCED TECHNOLOGY PROVIDES SUPERIOR ENERGY-EFFICIENCY, COMFORT AND DURABILITY

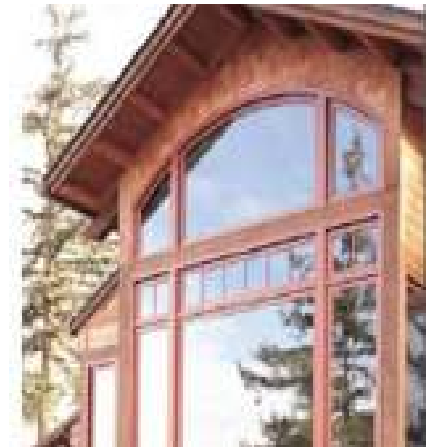
CompositWood windows offer superior performance because they combine the latest in composite material technology with the best performing glass options. The CompositWood material combines the beauty of wood with superior, rot-proof durability and no-maintenance attributes of vinyl. It's a superior insulator compared to fiberglass, wood or aluminum. Combine this advanced material with the highest performing glazing, and you get greater energy savings, comfort, and durability over the long run.

- Thermally superior composite material reduces energy-transfer better than wood, vinyl, fiberglass, and aluminum
- More energy efficiency means greater savings on monthly heating & cooling costs
- Available with highest performance glass system for maximum savings
- Surpasses ENERGY STAR® energy performance criteria
- CompositWood windows have multiple weather-strip paths with a unique beveled compression-sealed sash and jambs designed to reduce air infiltration
- More comfort - without air drafts you stay warmer in winter, cooler in summer
- Classic wood window design enhances the value and beauty of your home - inside and out
- Premium performance hardware ensures easy cleaning and operation

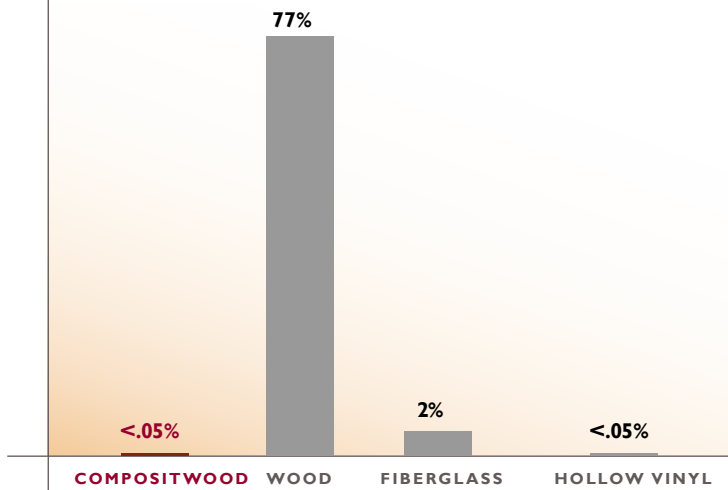
WEATHERABILITY

CompositWood consists of a proprietary blended material that provides the beauty of wood with the weatherability and low maintenance advantages of a composite.

The SuperCap outer shell is bonded to the solid composite core during extrusion for superior strength and durability.



MOISTURE ABSORPTION BY WEIGHT

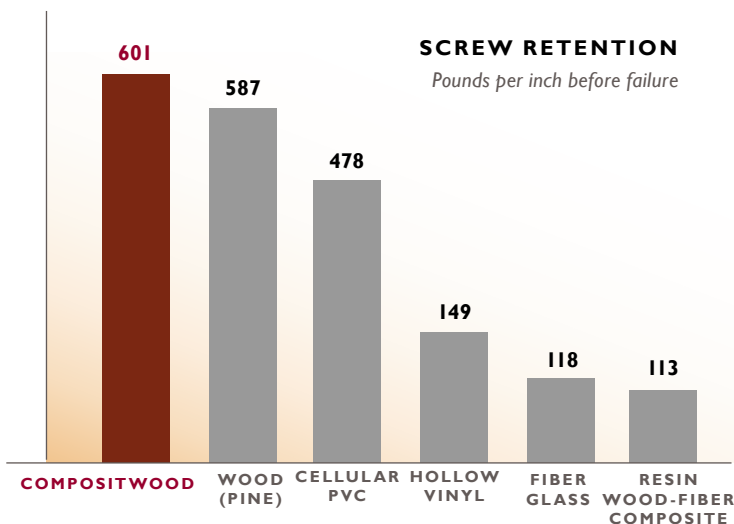


IMPERVIOUS TO MOISTURE, ROT AND INSECT FREE

CompositWood® can't absorb moisture so your windows will be rot and insect-free forever. They are also impervious to salt air and corrosion making CompositWood windows an ideal solution for coastal environments.

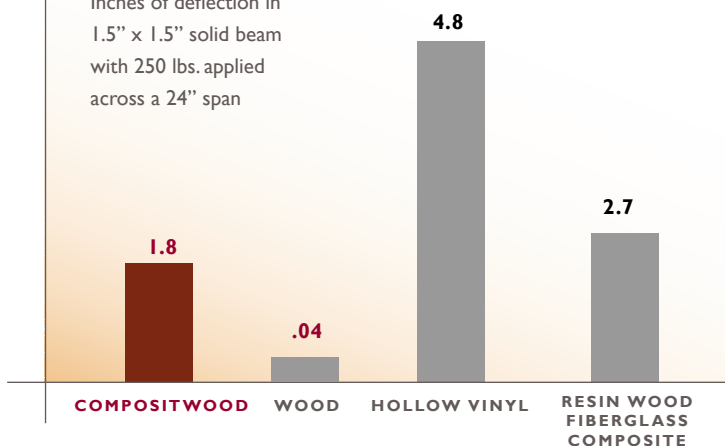
SCREW RETENTION

Pounds per inch before failure



SOLID BEAM DEFLECTION

Inches of deflection in 1.5" x 1.5" solid beam with 250 lbs. applied across a 24" span



SUPERIOR STRENGTH AND DURABILITY

With CompositWood windows you will never have to worry about cracking, peeling, chipping, flaking or chalking. Your windows will withstand virtually any climate and have exceeded industry standards in structural stability and heat resistance testing.

In independent lab testing, CompositWood is 2.7 times stiffer than hollow PVC, and as measured by screw retention, CompositWood is over 500% more secure than fiberglass and 400% better than hollow vinyl.



COMPOSITWOOD® STACKS UP



DESIGNED TO LAST



CompositWood® provides superior performance on many levels. Because of its unique solid core structure encapsulated with a rigid pre-finished SuperCap™ surface, it has the lowest thermal conductivity compared to other typical window frame materials.

Interstate's engineers have created the means to fusion weld the CompositWood frame material through our proprietary process called *InFusion Welding*. This process allows Interstate to offer the strongest master frame corner joinery coupled with the finest old world mortise and tenon sash design, unlike fiberglass, aluminum or wood that require all mechanical fastening and sealants that can fail over time. And because of its chemical makeup, the material is recyclable for future reuse.

BACKED BY A LIFETIME WARRANTY

Interstate's CompositWood® windows are lifetime warranted against defects in material and workmanship under normal use and service.



COMPARE COMPOSITWOOD TO OTHER WINDOW MATERIALS

	CompositWood®	VINYL	WOOD	FIBERGLASS	ALUMINUM
Lowest Material Thermal Conductivity (as defined by K-value)	X				
Best Overall Window Energy-Efficiency*	X				
Impervious to Moisture, Rot, Insect damage	X	X		X	X
Water Absorption (absorbs less than 1% of weight)	X	X			X
Corrosion-Proof Material	X	X			
InFusion Welded Corners for Superior Weatherproof Joints	X	X			
Non-Painted Finish Durability	X	X		X ⁺	
Superior Screw Retention	X		X		
Recyclable	X	X			X

*Comparison of NFRC U-factor and material K-value

⁺ If painted surface is removed, underlying material degrades

AND LIVES UP TO A PROMISE

EXTREME ENERGY EFFICIENCY

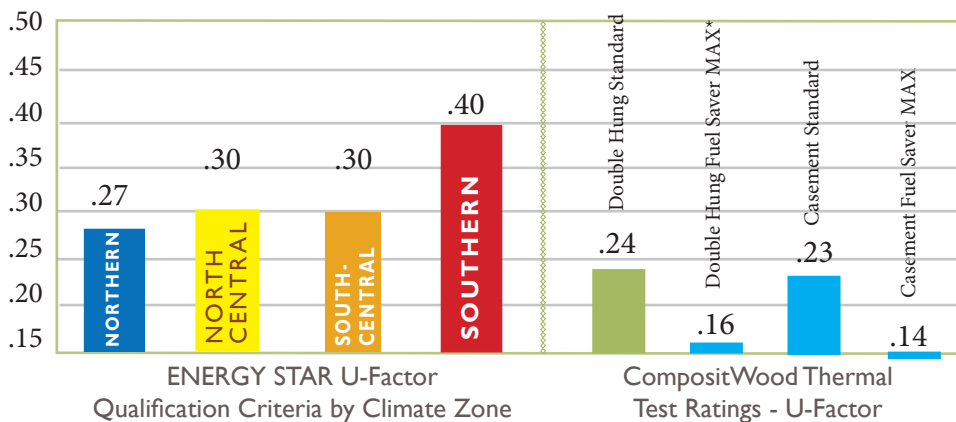
With high thermal performance values, CompositWood® windows far exceed ENERGY STAR criteria. Our products are AAMA and NFRC certified, then independently 3rd party verified to further ensure they meet or exceed industry structural and energy efficiency standards.

CompositWood windows can more than DOUBLE the ENERGY STAR U-factor insulating efficiency value of the most extreme northern climate, and can exceed by almost THREE TIMES the ENERGY STAR U-factor window insulating qualification for the southern climate zone.

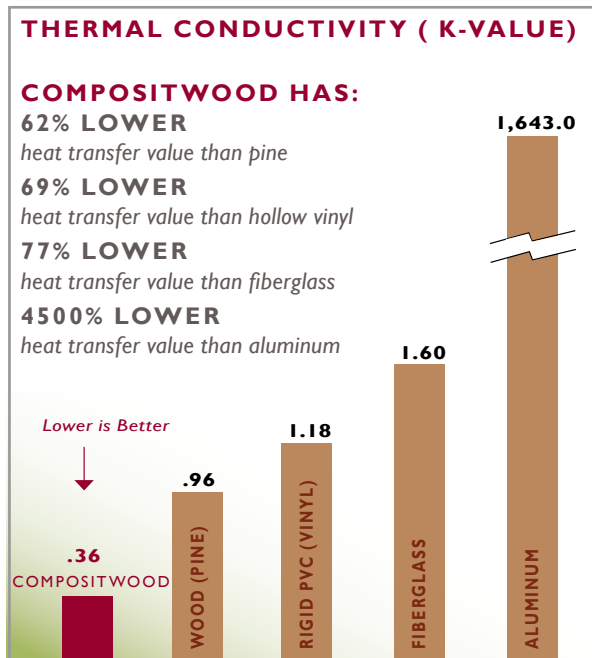
U FACTOR:

Measures the rate of window heat transfer. The lower the U Value, the better the window insulates.

Lower is Better ↓



ENERGY STAR 2018 Qualification Criteria for Residential Windows



K-VALUE: Measures the ability of a material to allow the flow of heat from its warmer surface through the material to its colder surface. The lower the K-Value, the better.

Climate Zone	U-Factor ¹	SHGC ²	
Northern*	≤ 0.27	Any	Prescriptive
	= 0.28	≥ 0.32	Equivalent Energy Performance
	= 0.29	≥ 0.37	
	= 0.30	≥ 0.42	
North-Central	≤ 0.30	≤ 0.40	
South-Central	≤ 0.30	≤ 0.25	
Southern	≤ 0.40	≤ 0.25	

Air Leakage ≤ 0.3 cfm/ft²

COMPOSITWOOD®

Glass Package Options

INCREDIBLE THERMAL VALUES



* A new distinction that recognizes products that deliver cutting edge energy efficiency along with the latest technological innovation. It is an award that truly represents the very best of ENERGY STAR. Many CompositWood windows earn the coveted ENERGY STAR Most Efficient mark for 2018.



STANDARD DUAL ENERGY SAVER⁺

- Double Pane: Low E + Clear; Argon
- U-factor:
 - .24 - Double Hung
 - .25 - Slider
 - .23 - Casement, Awning
 - .21 - Double Hung w/Dual Energy Saver IS
 - .21 - Slider w/Dual Energy Saver IS
 - .20 - Casement, Awning w/Dual Energy Saver IS*
 - .25 - Direct Set Picture Window
 - .20 - Direct Set Picture Window w/ Dual Energy Saver IS

SOUTH GLASS PACKAGE

- U-factor: SHGC:
 - .24 .19 Double Hung
 - .23 .19 Casement, Awning
 - .25 .20 Slider
 - .25 .25 Picture Window, Direct Set

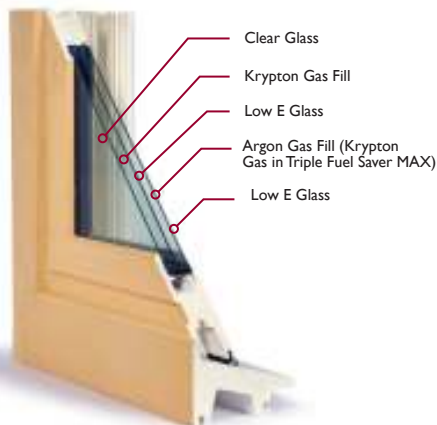


TRIPLE FUEL SAVER™⁺

- Triple Pane: Low E + Low E + Clear; Argon + Argon
- U-factor:
 - .19 - Double Hung, Slider *
 - .18 - Casement, Awning *
 - .18 - Direct Set Picture Window*



CompositWood Window ratings far exceed ENERGY STAR® requirements.



TRIPLE FUEL SAVER PLUS & MAX⁺

TRIPLE FUEL SAVER PLUS

- Triple Pane: Low E + Low E + Clear; Argon + Argon + Krypton
- U-factor:
 - .17 - Double Hung, Slider *
 - .16 - Casement, Awning *
 - .15 - Direct Set Picture Window*

TRIPLE FUEL SAVER MAX

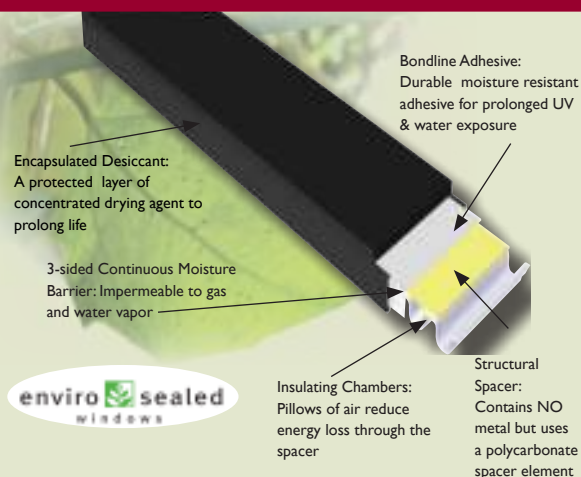
- Triple Pane: Low E + Low E + Clear; Krypton + Krypton
- U-factor:
 - .15 - Double Hung *
 - .16 - Slider
 - .14 - Casement, Awning *
 - .13 - Direct Set Picture Window*

*All values based on 2.3 mm glass pane thickness. Results may vary with different glass thicknesses, tempered glass, sash/frame reinforcement, grid applications and other specialty glass types.

DURALITE™ SPACER

Our Duralite Spacer System insulates the edge of glass better than a solid foam or metal spacer. It is hollow, trapping air for maximum thermal performance. The patented air pocket design creates the lowest U-value available.

CompositWood windows have been designated as “Envirosealed” windows through the use of the Duralite Spacer System technology, which saves energy, saves money and helps to save the environment.



COMPOSITWOOD® Insulated Glass THE INTERSTATE DIFFERENCE



Bringing Glazing Technology to a Whole New Level

InDuraClean Water Filtration System:

- Step 1:** Sophisticated multistage water purification system eliminates over 90% of small particles assuring sparkling clean glass units.
- Step 2:** The purified water is then deionized to remove remaining tiny mineral deposits.
- Step 3:** Deionized water is additionally subjected to ultraviolet lighting to kill bacteria.
- Result:** Minimal water usage to conserve natural resources, minimal detergent use, exceptionally clean glass and glass panes that aggressively adhere to the DuraLite spacer to assure the very best insulated glass seal.



InDuraClean Washing System



InDuraClean Water Filtration System



InDuraClean Glass Sealing Clean Room

InDuraClean Glass Sealing Clean Room:

- Step 1:** Air entering the clean room is filtered to remove dust and other pollutants, keeping the washed glass exceptionally clean.
- Step 2:** Technicians wear specialized gloves and surgical masks to prevent finger print and contamination of the insulated glass units.
- Step 3:** Positive pressurization forces filtered air from the clean room, eliminating infiltration of airborne pollutants.
- Step 4:** Climate controlled for optimal air temperature application of DuraLite insulating glass spacer while keeping technicians cool and comfortable.
- Step 5:** Air is dehumidified to assure the perfect humidity levels for optimal spacer application.
- Result:** The cleanest glass and best insulated seal possible.

OptiGas® Fill Equipment:

- Step 1:** The OptiGas advanced, precise gas filling system allows individual insulated glass units to reach optimal energy saving U-factors.
- Step 2:** OptiGas measures the actual amount of argon gas flowing into each insulated glass unit to precisely control the gas fill, assuring optimal thermal performance and energy efficiency.
- Result:** Interstate has a 95% argon gas fill rate—an industry best.

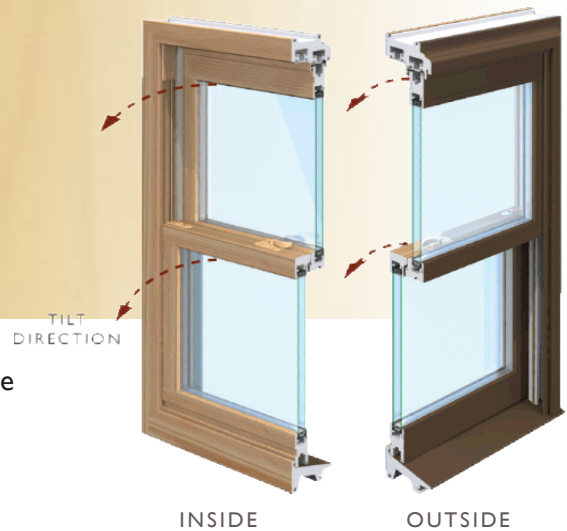


OptiGas

WINDOW STYLES

Double-Hung

- Classic wood window designed frame and sash for added elegance
- Solid core frame and sash for superior thermal performance and strength
- True sloped sill for fast water run-off and easy cleaning
- An off-set compression sash design for air-tight seal and added security. Light Lift™ SP balances for easy opening and closing
- Integral off-set balance pockets and multiple weather-strip paths to reduce air infiltration
- Tripled-secured sash & frame corners: mortise & tenon joined and chemically or fusion-welded sash, fusion-welded frame, stainless-steel screw fastened
- Tilt in sashes for easy cleaning from inside your home



LIGHT-LIFT™ SP (Superior Performance) New 3rd Generation Double Hung Window Sash Balance System

- Smooth and silent operation - sashes raise & lower with ease
- Enables full egress without limiting sash travel
- Interlocking pivot bar provides a higher structural performance rating
- Tilt-in sash for easy cleaning. Lifts out for easy sash removal
- High quality stainless steel coils won't rot and last a lifetime
- The same high quality coils are used in the aerospace and military industries for counter-balance on Mars Rover Curiosity, missiles, tanks and submarines



Light Lift™ SP

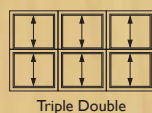
Double Hung Configuration Possibilities >>



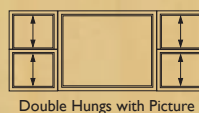
Double Hung



Twin Double Hung



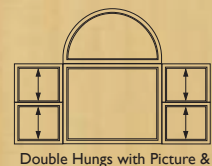
Triple Double Hung



Double Hungs with Picture



Operating Arch Top Double Hung

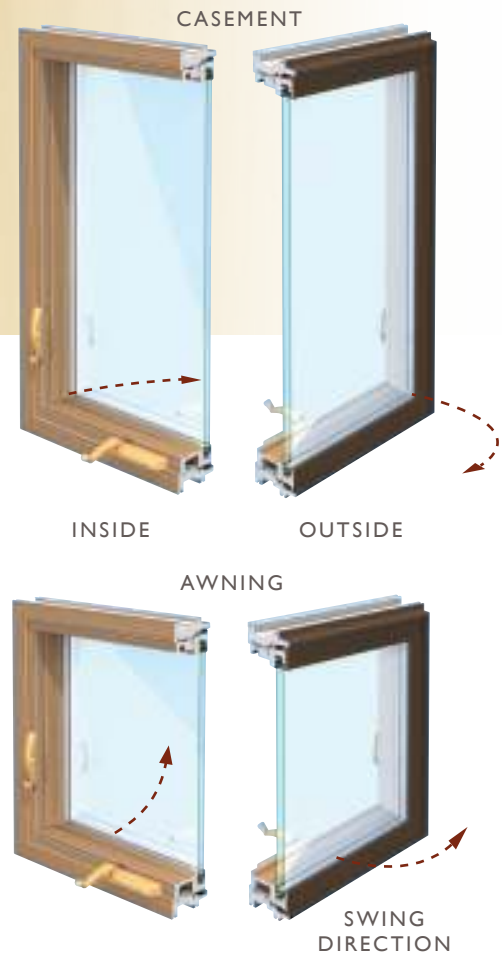


Double Hungs with Picture & Half Round

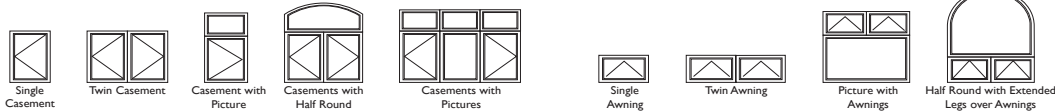
WINDOW STYLES

Casement & Awning

- Classic wood casement window designed frame and sash for an elegant appearance
- Solid core frame and sash for superior thermal performance and strength
- An off-set compression seal design and multipoint sash locking hardware for incredible air-tight performance and added security
- Triple-secured sash & frame corners: mortise & tenon joined and chemically or fusion welded sash, fusion-welded frame, stainless-steel screw fastened
- Aesthetically pleasing low profile folding handle does not interfere with window blinds; concealed hinge hardware
- Inside mounted weather-stripped screen system deters insects
- 90° sash pivot for easy cleaning from inside your home
- Optional internal mini-blinds available in white and clay



Casement and Awning Configuration Possibilities >>



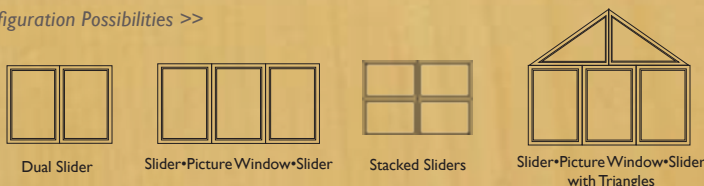
WINDOW STYLES

Horizontal Slider



- Classic wood window designed frame and sash for added elegance
- Solid core frame and sash for superior thermal performance and strength
- An off-set compression sash design for air-tight seal and added security
- Multiple weather-strip paths to reduce air infiltration
- Triple-secured sash & frame corners: mortise & tenon joined, fusion welded frame, stainless steel screw fastened
- Lift-out sashes for easy cleaning from inside your home

Slider Configuration Possibilities >>



WINDOW STYLES

Picture Windows

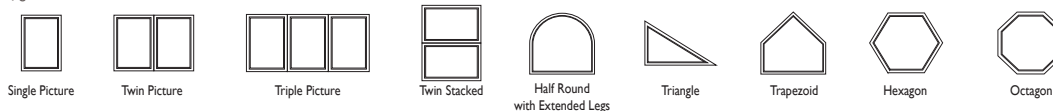


*Choose from
3 Picture
Window
designs!*

- Select from **3 picture window designs**: Match your operating window styles and sightlines with a Picture Window with Double Hung Sash* or Casement Sash design. Or maximize your view of the outside world with a very Narrow Frame Direct Set design
- Solid core frame and sash for superior thermal performance and strength
- Tripled-secured corners: mortise & tenon joined and chemically or fusion welded sash, fusion-welded frame, stainless-steel screw fastened

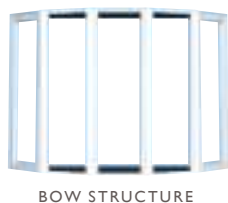
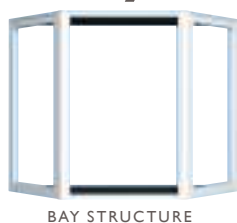
*Picture Window with Double Hung Sash not available in Custom Painted Exterior.

Picture Window Configuration Possibilities >>



WINDOW STYLES

Bays & Bows



- 3/4" #1 Eastern White Pine struts allow for unlimited angles from 0 to 55 degrees on bows
- All wood or vinyl mullions, end fillers, and stops
- Insulated head and seat board; edge banding
- User friendly installation
- 1/4" all-threaded steel rods between struts tie head and seat boards together for added strength
- Foam sealant between struts for added energy efficiency
- Maintenance free vinyl-clad exterior – available in white, stock paint finishes and custom colors



Bay & Bow Configuration Possibilities >>



DOOR STYLES *Architectural Series Model 9400* Rolling Patio Door



- Deluxe handset with keylock
- Two-Point or optional multi-point stainless steel locking mechanism
- Extruded heavy duty aluminum rolling screen with recessed auto lock
- Precision bearing stainless steel rollers and stainless steel door latch
- Composite/aluminum sill with full thermal break
- Folding factory applied nail fin
- Door Hardware color options: White, Bronze, Brushed Nickel and Brushed Brass
- 4 9/16" jamb; optional 6 9/16" available
- Only available in full tear-out installation
- Optional internal mini-blinds available in white and clay
- Limited Lifetime Warranty

Rolling Patio Door U-Factors*:	Dual Energy Saver	.27
	Triple Fuel Saver	.21
	Triple Fuel Saver Plus	.19
	Triple Fuel Saver Max	.16

Rolling Patio Door SHGC:	Dual Glazed	.30/.27
	Triple Fuel Saver	.24/.21
	Triple Fuel Saver Plus	.23/.21
	Triple Fuel Saver Max	.24/.21

*U-Factors based on 3.1 mm glass pane thickness. Results may vary with different glass thicknesses, frame reinforcement, grid applications and other specialty glass types.



Architectural Series Model 9400 Swing Door

- In swing/Out swing and French door styles
- Premium Stainless Steel Hardware
- Deluxe handset with keylock.
- Only available in full tear-out installation
- Dual Glazed, Triple Glazed optional
- Rain Glass, optional
- Optional internal mini-blinds available in white and clay



*Revolutionary • Beautiful
Efficient • Timeless*

COMPOSITWOOD®

Colors & Finishes That Beautify

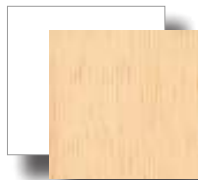
A SPECTRUM OF COLORS Inside and Out

Inside, select solid SuperCap® white or CompositWood's Eastern pine veneer that can be stained or painted to suit your needs. Outside, choose from SuperCap white (white interior); 14 in-stock factory painted colors; over 30 special order colors; and virtually unlimited custom matched colors (15-year paint warranty).

SUPERCAP FINISHES In-Stock*



SuperCap White interior
SuperCap White exterior



Eastern Pine interior
SuperCap White exterior

CUSTOM PAINT FINISHES Unlimited Color Match Exterior Colors

Custom blended colors available to suit your design needs - limited only by your imagination!



** Due to printing limitations, all colors and finishes shown are approximate.*



STOCK PAINT FINISHES 14 In-Stock Exterior Colors*



Interstate's state-of-the-art paint room

COMPOSITWOOD® Hardware Options

BUILT TOUGH

All CompositWood windows come standard with the industry's finest hardware system. The operators, locks, and hinges have all been developed to work together to meet or exceed industry performance requirements. CompositWood utilizes only the strongest, most attractive, easiest operating hardware available in today's market.

CASEMENT/AWNING WINDOW CRANKS



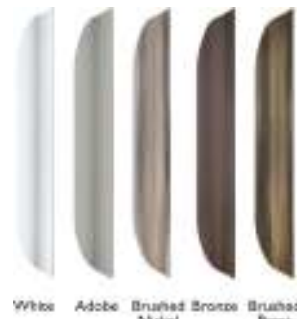
SLIM LINE CASEMENT/ AWNING LOCKS



DOUBLE HUNG CAM LOCKS



DOUBLE HUNG APPLIED HANDLE

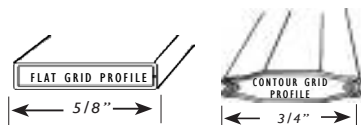


* Due to printing limitations, all colors and finishes shown are approximate.

COMPOSITWOOD® Grid Options

Grids add a distinctive look to your home's curb appeal. Grids Between Glass (GBGs) afford easy cleaning. Simulated Divided Lites (SDLs) are permanently adhered to the glass panes inside and out and are designed to look like a true multi-paned window.

Grids Between Glass

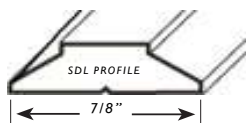


CompositWood Grids:

- Flat Colonial
 - White
 - Adobe/Clay
 - Bronze Exterior/White Interior
 - Custom Painted
- Contoured Colonial
 - White
 - Adobe/Clay
 - Bronze Exterior/White Interior
- SDLs (Simulated Divided Lites)
 - White (exterior & interior)
 - Bronze exterior/White interior
 - White exterior/Pine Interior
 - Removable Grids with Frame Surround, interior mounted
 - Custom Painted



Simulated Divided Lites



Applied to interior and exterior glass surfaces creating Simulated Divided Lites (SDLs)



Black flat bar between glass can be installed when using SDLs to create additional depth.

* Only Flat and exterior Simulated Divided Lites can be custom painted.

Exterior SDLs are not available with Triple Fuel Saver glass packages.

Check Rail

A 2-inch wide Simulated Divided Lite installed on exterior and interior glass surfaces of Casement or Picture windows, creates the appearance of Double Hung windows.



Awards & Affiliations

INTERSTATE AWARDS

- *Certificate of Special Recognition for Product Innovation - United States Senate*
- *Citation from Senate of Pennsylvania for Product Innovation*
- *Citation from Pennsylvania House of Representatives for Product Innovation*
- *Manufacturing Excellence Award - Pennsylvania Manufacturers' Association*
- *Northeast Pennsylvania Manufacturers & Employers Association Award for Excellence in Product Innovation*
- *National Association of Manufacturers Excellence Award for Product Innovation*

INTERSTATE AFFILIATIONS



SOCIAL MEDIA



CompositWood®
BY INTERSTATE



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Interstate Window & Door Company, aerial view



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