CompositWood® by Interstate

The Next Generation of Windows

INTERSTATE Window & Door Company

WINDOWS ENGINEERED TO LAST Beautifully.
It’s a New Chapter in the History of Windows...

ComositWood, 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, ComositWood 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.
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.

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
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.

**IMPEVIOUS 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.

**SUPERIOR STRENGTH AND DURABILITY**

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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.

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**COMPARE COMPOSITWOOD TO OTHER WINDOW MATERIALS**

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

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

*If painted surface is removed, underlying material degrades
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.

<table>
<thead>
<tr>
<th>U-FACTOR</th>
<th>CompositWood Thermal Test Ratings - U-Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>.27</td>
<td>Double Hung Standard</td>
</tr>
<tr>
<td>.16</td>
<td>Casement Standard</td>
</tr>
<tr>
<td>.14</td>
<td>Casement Fuel Saver MAX*</td>
</tr>
</tbody>
</table>

ENERGY STAR 2018 Qualification Criteria for Residential Windows

Thermal Conductivity (K-Value)

CompositWood has:
- 62% LOWER heat transfer value than pine
- 69% LOWER heat transfer value than hollow vinyl
- 77% LOWER heat transfer value than fiberglass
- 4500% LOWER heat transfer value than aluminum

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.
CompositWood®

Glass Package Options

INCREDIBLE THERMAL VALUES

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*
  .20 - 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 .20 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*

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.
**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 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.
• 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
**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
- Tripled-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

**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
- Tripled-secured sash & frame corners: mortise & tenon joined, fusion welded frame, stainless steel screw fastened
- Lift-out sashes for easy cleaning from inside your home
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.

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.

Optional Copper Roof
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

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

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:
Solar Heat Gain Coefficient
No Grids/With Grids
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.
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).

**A SPECTRUM OF COLORS**

**Inside and Out**

**SUPERCAP FINISHES**

*In-Stock*

- SuperCap White interior
- SuperCap White exterior
- Eastern Pine interior
- SuperCap White exterior

**STOCK PAINT FINISHES**

14 In-Stock Exterior Colors*

- Adobe
- Bronze
- Black
- Earthtone
- Champagne
- Green
- Gray
- Wedgewood Blue
- Brown
- Brick Red
- Cranberry
- Cream
- Clay
- White

**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.
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.

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**

- Colonial Flat (GBGs)
- Simulated Divided Lites (SDLs)
- Colonial Contour (GBGs)

**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.

**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

**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.

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

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

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

Interstate Window & Door Company, aerial view