Windsor provides a solution for every project.

Windsor Windows & Doors can help you bring your vision to life. Our windows and doors open up a home to the light, air and beauty of the outside world. But it’s the inspired designs and lasting performance of Windsor products that open up a world of possibilities for architects and builders.

Windsor has been developing unique home construction solutions for more than 60 years – from EZ-tilt functionality to the first all-cellular PVC exterior window. We’re dedicated to bringing you the highest quality product on the market – all for the best value.

Choose from a wide selection of products for new construction, remodeling or light commercial applications. Windsor’s windows and doors allow you to get creative with your next project, without sacrificing quality or stretching your budget.

Imagine what you can do with Windsor Windows & Doors.
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The History of Windsor Windows & Doors

Windsor Windows & Doors began as a small operation in Des Moines, Iowa, in 1946. By crafting some of the finest windows and doors available – and asking fair prices – we’ve built our reputation of quality and value among architects, builders, contractors and homeowners. Windsor remained a regional wood window company until being purchased by Woodgrain Millwork, Inc., Fruitland, Idaho, in 1987.

Woodgrain began as Dame Lumber & Moulding in 1954 by founder Bud Dame, who pioneered the manufacturing of wood mouldings. In 1984, Dame Lumber & Mouldings merged with a subsidiary to form Woodgrain Mouldings. In 1988, the name was officially changed to Woodgrain Millwork. Bud’s two sons, Reed and Kelly Dame, are currently the owners of Woodgrain Millwork.

Windsor is proud to be owned by such a large and successful company. Woodgrain has grown into the largest manufacturer of mouldings and interior doors in the United States. Four separate divisions are now part of the Woodgrain family: Millwork, Distribution, Doors and Windows. Woodgrain Millwork currently employs over 3,000 people in 20 different locations, including two in Chile.

We’ve come a long way since we built our first window in 1946. Since joining Woodgrain, Windsor has streamlined its manufacturing processes, invested in state-of-the-art equipment, engineered innovative new designs and expanded the product offering. Windsor’s corporate headquarters is located in West Des Moines, Iowa. The manufacturing plant in that location occupies 340,000 square feet, and we also operate a second 200,000-square-foot production facility in Monroe, North Carolina. We manufacture four distinct product lines: Pinnacle (wood clad windows and patio doors), Legend (cellular PVC windows), Next Dimension (vinyl windows and patio doors) and Ashworth (patio and entry doors). Windsor enjoys a national presence in the window and patio door marketplace. We ship quality products throughout the United States and to Canada, Mexico and China.

Woodgrain Millwork, Inc., and Windsor Windows & Doors have succeeded as a result of traditional American values. The diligence and hard work of the owners, as well as every employee they have hired throughout the years, has allowed the company to grow into a viable competitor in the residential and light commercial building market. We strive every day to meet our customers’ needs and exceed their expectations. Our goal is to provide the best value in the window and door industry.
The Windsor Advantage

At Windsor Windows & Doors, we’re committed to providing the finest products, value engineered to meet the needs of all your projects. We’d like you to experience the Windsor Advantage...a complete set of impactful solutions delivering outstanding Service, Selection, Quality and Value.

Whether you’re looking for the beauty of wood in our Pinnacle product, the longevity of our Legend cellular PVC or the efficiency of our Next Dimension vinyl, rest assured Windsor takes pride in producing meticulously crafted windows and doors for each specific order.

We use the highest quality materials, resulting in products that are durable, strong and weather resistant. Our goal is to exceed your expectations by providing short order lead times, reliable delivery dates and the flexibility to respond to your custom requests.

The Windsor Advantage means you won’t pay a premium for superior quality, exceptional service and a fair price. You’ll find with your very first order, Windsor is not just a window and door company. We’re a collection of dedicated professionals working every day to solve problems and build lasting relationships.
In its total commitment to customers, Windsor Windows & Doors promises quality, service, responsiveness and value. In its total commitment to the environment, Windsor promises to act as a responsible corporate citizen, optimizing the use of resources and manufacturing products that not only have a positive impact on the environment, but also the health of people.

Windsor understands the challenges builders and architects face when committing to building green, and we want to make it as easy as possible. We seek third party green certifications and join organizations that value what we do — making our Earth a cleaner place to live. We want homeowners to have peace of mind, knowing when they choose Windsor, they are choosing a product that has minimal impact on the environment. And we won’t stop there; we are continually reevaluating processes and redefining the expectations that we hold of ourselves as a responsible manufacturer.

As a member of the United States Green Building Council, Windsor supports the work of this nonprofit, which encourages and educates the industry on the importance of environmental responsibility. The USGBC established the standards for LEED building certification, a national benchmark for those seeking third party certification. Windsor’s windows have been used in homes that have acquired LEED certification, as well as countless other homes that adhere to strict environmental regulations.

At Windsor, we recognize it’s not enough to claim to be green; it’s demonstrated through our actions. Recycling has become a key component in our manufacturing process. We purchase materials with recycled components, while carefully optimizing the use of resources and recycling the generated scrap. Windsor recently launched a new packaging program, which is comprised of materials that contain recycled content and can be recycled upon arriving to the jobsite, yielding minimal waste. Consciously recycling and reducing the use of resources is one of the ways Windsor has lessened its footprint on the environment.

With green in mind, Windsor recently built its second manufacturing facility in West Des Moines. The building was engineered to be thermally efficient with optimal airflow. With the use of fluorescent light bulbs, Windsor uses half the energy that would be used with standard light bulbs. “Zone lighting” was implemented, in order to use the least amount of energy possible during irregular hours.

While Windsor adheres to the strictest of green practices in production, we enforce this philosophy across all departments. When redesigning a product, engineering strives to increase its lifecycle and considers opportunities to integrate more environmentally friendly materials; and all marketing materials are printed on recycled paper.

**Family-owned company, corresponding values**

Windsor’s parent company, Woodgrain Millwork, is a family owned and operated company, which recognizes stewardship as one of its key values. Woodgrain is a USGBC member and has acquired FSC CoC certification. They purchase wood from FSC-certified forests and other sustainable locations. Woodgrain recycles and strives to operate in an environmentally conscience manner.

**Partnering with those who are like-minded**

All of Windsor’s primary vendors participate in extensive recycling programs and adhere to, or surpass, all local, state and national environmental regulations.

Many are considered to be environmental leaders in their particular industry, manufacturing products made from recycled materials, receiving awards from organizations such as the DNR and acquiring FSC and SFI certification.
Pinnacle casement and picture windows with awnings. Silver Lake, Wisconsin.
Windsor Windows & Doors has a distinct product line for every application. Residential, light commercial, multi-family and historical renovations. Discover all the products we have to offer...

**Pinnacle Select**

Pinnacle Select is an elite product line constructed from enhanced components that provide unsurpassed performance. DP ratings ranging from 50 up to 70 are some of the most impressive in the industry. Select products are currently offered in casements (vented and fixed), picture, transom and awning. This line features a unique push-out style casement and awning, as well as a retractable screen option.

**Legend**

Our Legend products use state-of-the-art cellular PVC in a solid construction throughout, creating the next innovation in windows. Legend is not a wood window, but is a window offering the best features of both the traditional look and feel of painted wood, plus the low maintenance and durability of cellular PVC. This product offers the only 25-year warranty in the industry. Get the best of both worlds with Windsor’s Legend product.

**Pinnacle**

Our top-of-the-line Pinnacle wood clad windows and doors offer a large selection of styles and shapes. The exterior comes in either a primed wood or low-maintenance extruded aluminum cladding in 22 standard colors, 20 feature colors or eight anodized finishes. Custom color matching is also available.

The wood interiors of our Pinnacle products are made from the finest Clear Select Pine, specially treated for long life. Select our Douglas Fir, which ranges in natural colors from bright white to a rich rose, or an attractive Natural Alder with wood tones spanning from a golden honey to handsome reddish brown. These exquisite woods will be a complement to any home’s décor for years to come.

Pinnacle patio doors are offered in a variety of sizes and styles and are known for their strength, quality and aesthetics. They are easy-to-operate, and our heavy-duty weatherstripping will ensure your patio doors are ready for the changing seasons.

**Legend HBR**

Windsor has developed a unique hybrid product that we call Legend HBR. It combines the strength and durability of our Legend cellular PVC frame with a wood clad sash. The merging of these two product types offers a low-maintenance exterior with a beautiful wooden interior. Choosing both of these materials in white provides a traditional appearance, while producing the sash and frame in contrasting colors creates a two-toned effect that is popular in certain regions of the country. Our Legend HBR products are well suited for both new construction and historical renovation.

**Next Dimension Signature**

Next Dimension Signature windows and doors are robust, reliable products that offer the resilience of extruded multi-chambered vinyl. Enhanced components and sturdy construction add strength and stability. Homeowners enjoy exceptional performance and energy efficiency.
Next Dimension Pro

Next Dimension Pro vinyl windows and patio doors are designed for light commercial, multi-family and residential applications, all at a highly competitive price. Vinyl extrusions ensure superior weathering, durability and color retention. Construction features are built in to reduce maintenance, add strength and security and maximize weather resistance.

Next Dimension Classic

Next Dimension Classic is available in the New England, Mid-Atlantic and Southeastern markets in single and double hung units, as well as patio doors. What makes Next Dimension Classic unique is its sloped sill, tilt sash, brickmould profile frame and decorative features, such as a profiled inner grille and simulated divided lite.

Windsor Bi-fold Doors

Quality, high-performance and stunning beauty come together with Windsor’s bi-fold doors. We offer this versatile product in many sizes and configurations, which allows for installation in standard construction openings. This innovative concept brings open-air luxury to virtually any custom project.

Our bi-fold doors feature a revolutionary hinge system that will provide graceful operation and reliable function for years to come. With options including three premium hardware finishes, 42 clad colors, eight anodized finishes and a wood interior selection of Clear Select Pine, Natural Alder and Douglas Fir, your possibilities are wide open. Homeowners love the way these doors bring the beauty of nature into their home.

Win-Pac Sash Replacement Kit

Replace old, drafty, inefficient double hung sashes with energy efficient, dual pane sashes. Windsor’s Win-Pac Sash Replacement Kit makes updating easy, allowing you to keep your existing interior trim and plaster in place. Choose from three different replacement sashes: versatile primed wood, durable aluminum clad or low-maintenance cellular PVC. Win-Pac sashes feature EZ Tilt, which provides fast access for hassle-free cleaning.

Ashworth Patio Doors

Ashworth’s finely crafted doors are the thresholds connecting your most cherished indoor and outdoor spaces.

Beauty, quality and selection inspire the design of each and every product we make, allowing you to easily customize a door that meets the functional needs of your environment while complementing, refining and even enlivening your home. Regardless of the materials, textures and colors that inspire your space, Ashworth Doors marry style and function so that even the fine details of your home harmoniously represent the way you live and how you see the world.

Ashworth is a brand of Woodgrain Millwork, Inc., one of the largest millwork companies in the world. Being a part of the Woodgrain Millwork family provides our customers with finely crafted patio and entry doors with an assortment of materials and manufacturing techniques not available from other manufacturers.
Benefits of Pinnacle Select

[1] Extruded aluminum in 22 standard colors, 20 feature colors and eight anodized finishes; custom colors also available

[2] All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments

[3] Clear Select Pine, Douglas Fir, Natural Alder or primed interior finishes

[4] Constructed with 2-5/16" wide stiles and rails that add structural stability and provide a more massive architectural appearance

[5] Robust 2-3/16" thick sash adds dimension and strength


[7] Select casement and awning available in larger sizes
   - Crank-out: up to 3678 or 3096
   - Push-out: up to 3678
   - Venting awning: up to 6060

[8] Select casement and awning available in two styles
   - Operating: standard crank
   - Push-out: lever handle

[9] Retractable screens available on operating and push-out products; pull bar, cartridge case and frame of screen produced from same wood species as window

[10] Full-width extension jambs standard


Features of Push-out Units

[12] Push-out hardware consists of an easy-to-operate lever with cam rollers and keepers; this mechanism provides a multi-point locking system that is standard

[13] Push-outs equipped with adjustable friction hinges and lock rollers in both casement and awning

[14] Friction device on larger push-out awning maintains sash opening

[15] Push-out casement provides an impressive DP rating of 50 for all sizes

[16] DP rating of push-out awning range from 40 up to 70

Features of Operating Units

[17] Operating casement uses adjustable hinges

[18] Operating casement provides an amazing DP rating of 70 (except for the 3678, which has a DP rating of 50)

[19] DP rating of operating awning is 50 for all sizes

NOTE: See page 22 for Pinnacle Select options and accessories.
Features and Benefits
[1] The warmth and beauty of Clear Select Pine, Douglas Fir or Natural Alder; can be painted or stained
[2] Clad units offer a strong, durable extruded aluminum sash and frame for low maintenance; primed units offer the traditional appearance of decorative trim
[3] Glass is replaceable in case of damage
[4] 2” thick sash adds beauty and increases insulating value
[5] Exterior tape glazing slows conduction of heat/cold through edge of glass; two beads of silicone ensure a water tight seal that creates three seals between glass and sash
[6] Single lever, sequential, multi-point lock for sleek look and easy operation
[7] Adjustable concealed hinge system ensures smooth operation
[8] 1-1/4” jamb creates unmatched strength and stability
[9] Silicone-injected frame corners create a stronger and more attractive joint

Sizes
Available in hundreds of standard and custom sizes

Glazing
• Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
• Glazed with tape and silicone sealant
• Custom and special glass types available
• Preserve protective film optional

Exterior Trim
• Clad windows available with WM 180 brickmould or williamsburg casing; primed windows available with slimline, WM 180 brickmould, WM 180 brickmould with flange, 2” lineal drip cap, williamsburg, 3-1/2” flat, 3-1/2” flat with J-channel, 4-1/2” backband, 5-1/2” flat or plantation casing; 2” bull nose sill nose, casement subsill or 2” casement subsill

Grilles
Windsor Divided Lite (WDL) = simulated divided lite
• 7/8” and 1-1/4” perimeter grille
• 7/8” and 1-1/4” stick grille
• 3/4” and 1” profiled inner grille
• 13/16” flat inner grille
• 7/8” and 1-1/4” interior wood WDL
• 7/8” and 1-1/4” exterior clad WDL
• 7/8” and 1-1/4” exterior CPVC WDL (primed)
• 5/8” and 7/8” tall putty WDL
• 5/8” and 7/8” short putty WDL
• 2” tall putty simulated check rail
• 2” exterior low profile simulated check rail
• 2” CPVC simulated check rail (primed)
• Standard and custom grille patterns available

Finishes
• Interior – Clad windows available in Clear Select Pine, Douglas Fir, Natural Alder, primed or painted white interior finishes; primed windows available in Clear Select Pine, primed or painted white interior finishes
• Exterior – Clad windows feature heavy-duty extruded aluminum cladding on sash and frame; primed windows offer an assortment of traditional trim options

Clad Colors
All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
• 22 standard colors
• 20 feature colors; custom colors available
• 8 anodized finishes

Hardware
Encore folding nesting crank and cover by Truth® available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com
Features and Benefits

[1] The warmth and beauty of Clear Select Pine, Douglas Fir or Natural Alder; can be painted or stained

[2] Clad units offer a strong, durable extruded aluminum sash and frame for low maintenance; primed units offer the traditional appearance of decorative trim

[3] Glass is replaceable in case of damage

[4] Both tape and silicone glazed, with interior wood stops for superior strength and seal

[5] EZ Tilt operation available for easy removal and replacement of sash

[6] Recessed lock and keeper for a sleek appearance

[7] Block and tackle balance system for ease of operation

[8] Both sashes tilt in with compression or concealed jambliner for easy cleaning

[9] No-finger pull option for hardware application

Sizes
Available in hundreds of standard and custom sizes

Glazing
- Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Glazed with tape and silicone sealant
- Custom and special glass types available
- Preserve protective film optional

Exterior Trim
- Clad windows available with WM 180 brick-mould or Williamsburg casing; primed windows available with slimline, WM 180 brickmould, WM 180 brickmould with flange, 2” lineal drip cap, Williamsburg, 3-1/2” flat, 3-1/2” flat with J-channel, 4-1/2” backband, 5-1/2” flat or plantation casing; double hung sill nose, 2” bull nose sill nose or belly sill nose

Grilles
Windsor Divided Lite (WDL) = simulated divided lite
- 7/8” and 1-1/4” perimeter grille
- 7/8” and 1-1/4” stick grille
- 3/4” and 1” profiled inner grille
- 13/16” flat inner grille
- 7/8” and 1-1/4” interior wood WDL
- 7/8” and 1-1/4” exterior clad WDL
- 7/8” and 1-1/4” exterior CPVC WDL (primed)
- 5/8” and 7/8” short putty WDL
- 2” exterior low profile simulated check rail
- 2” CPVC simulated check rail (primed)
- Standard and custom grille patterns available

Finishes
- Interior – Clad windows available in Clear Select Pine, Douglas Fir, Natural Alder, primed or painted white interior finishes; primed windows available in Clear Select Pine, primed or painted white interior finishes
- Exterior – Clad windows feature heavy-duty extruded aluminum cladding on sash and frame; primed windows offer an assortment of traditional trim options

Clad Colors*
All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
- 22 standard colors
- 20 feature colors; custom colors available
- 8 anodized finishes

* Glide-by products only available in white, ivory, tan, bronze, cinnamon, hunter green and black

Hardware
Double hung lock available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com
Pinnacle Sliding Patio Door

Features and Benefits

[1] Wood parting stops and absence of screws provide a warm, clean look

[2] Integral nail fin on clad doors

[3] Heavy-duty interlock improves air and structural performance

[4] Standard two-point lock for added security

[5] One-piece, fiberglass pultruded sill minimizes cold conduction

[6] Aluminum jamb covers at the head and strike jambs hide exposed screws and provide a smoother, more attractive surface

[7] Doors slide on two tandem, heavy duty, end adjustable, ball bearing rollers for years of smooth, trouble-free operation

[8] Improved breakaway force of panel (10 lbs) and operating force (6 lbs) provide effortless operation

[9] Taller sill provides excellent water performance and design pressure ratings

[10] Foam-backed glazing bead prevents paint and stain from bleeding

[11] All stiles constructed of an LVL core for a stronger, straighter, more durable door

[12] Panel exterior matches Pinnacle product line with consistent depth from glass to face of the panel for a clean, complementary appearance

Sizes

- Five standard heights: 6'8", 6'10", 8'0", 9'0" and 10'0" (9'0" and 10'0" doors available in French slider only)
- Custom sizes available

Glazing

- Windsor Glazing System provides 3/4" double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Interior stop glazed with beaded silicone
- Custom and special glass types available

Exterior Trim

- Clad doors available with WM 180 brickmould or williamsburg casing; primed doors available with slimline, WM 180 brickmould, WM 180 brickmould with flange, 2" lineal drip cap, williamsburg, 3-1/2" flat, 3-1/2" flat with J-channel, 4-1/2" backband, 5-1/2" flat or plantation casing

Grilles

Windsor Divided Lite (WDL) = simulated divided lite
- 7/8" and 1-1/4" perimeter grille
- 3/4" and 1" profiled inner grille
- 13/16" flat inner grille
- 7/8" and 1-1/4" interior wood WDL
- 7/8" and 1-1/4" exterior clad WDL
- 7/8" and 1-1/4" exterior CPVC WDL (primed)
- 5/8" and 7/8" short putty WDL
- 2" exterior low profile simulated check rail
- 2" CPVC simulated check rail (primed)
- Standard and custom grille patterns available

Weatherstripping

- Flexible, weatherable PVC and foam seal at the head and jambs with a pile fin-seal weatherstripping at the interlocks; pile weatherstripping also used at the bottom of the operating panel and at the ends of the interlock

Finishes

- Interior – Clad doors available in Clear Select Pine, Douglas Fir, Natural Alder, primed or painted white interior finishes; primed doors available in Clear Select Pine, primed or painted white interior finishes; narrow-style doors not available in Douglas Fir or Natural Alder
- Exterior – Clad doors available in heavy-duty extruded aluminum cladding; primed doors offer an assortment of traditional trim options

Clad Colors

All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
- 22 standard colors
- 20 feature colors; custom colors available
- 6 anodized finishes

Hardware

D-shaped handle available in white, brushed chrome, polished chrome, satin nickel, antique nickel, bright brass, antique brass, faux bronze, oil rubbed bronze and black

Performance Ratings

For current performance ratings, visit our website at pro.windsorwindows.com
Pinnacle Swinging Patio Door

Features and Benefits
• Stainless steel multi-point locking hardware option for added security
• Integral structural astragal allows for doors up to 12 feet wide to be placed in a single frame, which decreases the potential for air and water infiltration
• “Easy Adjust” hinge system for effortless operation and correction after installation
• Wept sill system to eliminate water infiltration
• Dual-seal frame weatherstripping at panel face and edge improves air and thermal performance
• Taller sill provides excellent water performance and design pressure ratings
• Foam-backed glazing bead prevents paint and stain from bleeding
• Active stiles constructed of an LVL core material for added strength and stability
• Panel exterior matches Pinnacle product line with consistent depth from glass to face of the panel for a clean, complementary appearance
• Low clearance (ADA approved) sill options
• In-swing and out-swing options available
• 1/2 and 3/4 lite available with flat or split panel option
• Seg-top available

Sizes
• Five standard heights: 6’8”, 6’10”, 8’0”, 9’0” and 10’0”
• Custom sizes available

Glazing
• Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
• Interior stop glazed with beaded silicone
• Custom and special glass types available

Exterior Trim
• Clad doors available with WM 180 brickmould or williamsburg casing; primed doors available with WM 180 brickmould, WM 180 brickmould with flange, 2” lineal drip cap, williamsburg, 3-1/2” flat, 3-1/2” flat with J-channel, 4-1/2” backband, 5-1/2” flat or plantation casing

Grilles
Windsor Divided Lite (WDL) = simulated divided lite
• 7/8” and 1-1/4” perimeter grille
• 3/4” and 1” profiled inner grille
• 13/16” flat inner grille
• 7/8” and 1-1/4” interior wood WDL
• 7/8” and 1-1/4” exterior clad WDL
• 7/8” and 1-1/4” exterior CPVC WDL (primed)
• 5/8” and 7/8” short putty WDL
• 2” exterior low profile simulated check rail
• 2” CPVC simulated check rail (primed)
• Standard and custom grille patterns available

Weatherstripping
• Rigid, weatherable PVC or urethane foam encased in polyethylene film
• In-swing and out-swing doors feature bottom heavy-duty, self-adjusting sweep

Finishes
• Interior – Clad doors available in Clear Select Pine, Douglas Fir, Natural Alder, primed or painted white interior finishes; primed doors available in Clear Select Pine, primed or painted white interior finishes; narrow-style doors not available in Douglas Fir or Natural Alder
• Exterior – Clad doors available in heavy-duty extruded aluminum cladding; primed doors offer an assortment of traditional trim options

Clad Colors
All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
• 22 standard colors
• 20 feature colors; custom colors available
• 8 anodized finishes

Hardware
Classic or contemporary handle available in white, brushed chrome, polished chrome, satin nickel, antique nickel, bright brass, antique brass, faux bronze, oil rubbed bronze and black

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com
Pinnacle Impact featuring Seastorm™ Glass

Pinnacle Impact is available in casement, awning, double hung, radius, direct set, French sliding patio doors and out-swing patio doors.

Features and Benefits
- The warmth and beauty of Clear Select Pine, Douglas Fir or Natural Alder; can be painted or stained
- Clad units offer a strong, durable extruded aluminum sash and frame for low maintenance; Impact double hung units require higher inside stop
- Glass is replaceable in case of damage
- Specialty windows available in a wide variety of direct set and radius styles
- Certified, proven-safe solution against hurricane blasts; laminated glass allows unit to crack instead of shatter when under great pressure
- Meets and exceeds modern building codes for extreme coastal environment conditions
- Dampens sounds from traffic, neighbors and the outdoors
- Resistant to interior fading from constant sunlight
- Offers security against intruders with shatterproof and cutter-deterring glass
- Preserve protective film standard

Sizes
Available in hundreds of standard and custom sizes

Glazing
- Glazed with tape and Dow Corning® 955 silicone sealant – the strongest silicone bonding agent available
- Cardinal SeaStorm™ LoE3 insulated glass standard, featuring stainless steel spacers; tinted, tempered and laminated glass available
- Custom and special glass types available
- Insulated glass utilizes annealed glass on exterior and laminated glass on interior
- Laminated glass features PVB inner layer on units up to 26 square feet and SGP inner layer on units over 26 square feet

Grilles
- Windsor Divided Lite (WDL) = simulated divided lite
- 7/8” and 1-1/4” perimeter grille
- 7/8” and 1-1/4” stick grille
- 3/4” and 1” profiled inner grille
- 13/16” flat inner grille
- 7/8” and 1-1/4” interior wood WDL
- 7/8” and 1-1/4” exterior clad WDL
- 7/8” and 1-1/4” exterior CPVC WDL (primed)
- 5/8” and 7/8” tall putty WDL
- 5/8” and 7/8” short putty WDL
- 2” tall putty simulated check rail
- 2” exterior low profile simulated check rail
- 2” CPVC simulated check rail (primed)
- Standard and custom grille patterns available

Finishes
- Interior – Clad units available in Clear Select Pine, Douglas Fir, Natural Alder, primed or painted white interior finishes; primed units available in Clear Select Pine, primed or painted white interior finishes
- Exterior – Clad units available in heavy-duty extruded aluminum cladding; primed units offer an assortment of traditional trim options

Clad Colors
All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
- 22 standard colors
- 20 feature colors; custom colors available
- 8 anodized finishes

Hardware
- Casement, awning and double hung hardware available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass
- Patio door handles available in white, brushed chrome, polished chrome, satin nickel, antique nickel, bright brass, antique brass, faux bronze, oil rubbed bronze and black

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

Certification
Performance rated to DP 50 overall; structural rating exceeds DP 50. Florida Building Commission approved; exception Dade-Broward small missile
Visit floridabuilding.org for more information; including section details and installation

Storm Relief  Fade Shield  Home Safety  Sound Guard

LoE3 and SeaStorm™ glass are trademarks of Cardinal Glass.
Windsor Bi-fold Door

Features and Benefits
- Multi-point locking system on passage panels features three-point jamb-engaged tongue system for uncompromised security
- Centor Architectural E3 bi-fold hardware system provides stability and smooth operation
- Rounded-style dropbolt with extended 25mm throw for added security
- Wept sill system to eliminate water infiltration
- Dual weatherstrips at panel edge improve air and thermal performance
- Foam-backed glazing bead minimizes paint and stain bleeding.
- Stiles constructed of an LVL core material for added strength and stability
- Panel exterior matches Pinnacle product line with consistent depth from glass to face of the panel for a clean, complementary appearance

Sizes
- Five standard heights: 6’8”, 6’10”, 8’0”, 9’0”, and 10’0”
- Can be assembled with as few as two panels, and up to eight panels wide
- Custom sizes available

Glazing
- Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Interior stop glazed with beaded silicone
- Custom and special glass types available

Exterior Trim
- WM 180 brickmould or Williamsburg clad casing

Grilles
Windsor Divided Lite (WDL) = simulated divided lite
- 3/4” and 1” profiled inner grille
- 13/16” flat inner grille
- 7/8” and 1-1/4” interior wood WDL
- 7/8” and 1-1/4” exterior clad WDL
- 5/8” and 7/8” short putty WDL
- Standard and custom grille patterns available

Weatherstripping
- Two barriers between each panel and between panels and frame; urethane foam encased in polyethylene film around entire frame; pile weatherstripping along head and sill provide added protection

Finishes
- Interior – Clear Select Pine, Douglas Fir or Natural Alder
- Exterior – Heavy-duty extruded aluminum cladding

Clad Colors
All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
- 22 standard colors
- 20 feature colors; custom colors available
- 8 anodized finishes

Hardware
Classic or contemporary handle available in satin nickel, bright brass and oil rubbed bronze

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

BI-FOLD DOOR TERMINOLOGY
[1] Top pivot
[3] Intermediate carrier
[4] End carrier
[5] Concealed bottom pivot
[7] Hinge
[8] Concealed intermediate guide
[9] Hinge with guide
[10] Concealed end guide
Pinnacle Options & Accessories

### Standard Clad Colors

<table>
<thead>
<tr>
<th>Color</th>
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<tbody>
<tr>
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<td>Red River Rouge</td>
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<td>Hunter Green</td>
<td>Military Blue</td>
<td>Clear</td>
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<td>Dove Gray</td>
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<tr>
<td>Sable</td>
<td>Black</td>
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</table>

### Feature Clad Colors

Custom color matching is also available.

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<td>Redwood</td>
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<td>Midnight Blue</td>
</tr>
<tr>
<td>Stormy Monday</td>
<td>Dark Bronze</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Printing limitations prevent exact color representation. See your Windsor distributor for actual color samples.
Anodized Finishes

Clear  Champagne  Light Bronze  Medium Bronze  Dark Bronze  Extra Dark Bronze  Black  Copper

Interior Finishes

Clear Select Pine  Douglas Fir  Natural Alder  Primed  Painted White

Radius Interior Trim

Custom-fitted wood trim for radius-shaped windows and radius-top doors is available in five moulding styles. All styles are available in Clear Select Pine, Oak, Douglas Fir and Natural Alder.

WM 324 • 2-1/4”  Shown in Clear Select Pine
WM 346 • 2-1/4”  Shown in Clear Select Pine
WM 356 • 2-1/4”  Shown in Oak
WM 366 • 2-1/4”  Shown in Douglas Fir
WM 444 • 3-1/2”  Shown in Natural Alder

Casement Crank and Finishes

Double Hung Lock and Finishes

Champagne  White  Bronze  Black  Faux Bronze  Oil Rubbed Bronze  Satin Nickel  Bright Brass

Champagne  White  Bronze  Black  Faux Bronze  Oil Rubbed Bronze  Satin Nickel  Bright Brass

NOTE: Printing limitations prevent exact color representation. See your Windsor distributor for actual color samples.
Glass

*Special order item

LoE 366 (Standard)  Dual Low-E  LoE 240  LoE 272  Clear  Gray Tint

Bronze Tint  Obscure  Satin Etch  Glue Chip*  Rain*  Reed*

Exterior Trim

Double Hung Sill Nose  2" Bull Nose Sill Nose  Belly Sill Nose  Casement Subsill  2" Casement Subsill  Half Round / Ellipse Sill Nose (Radius only)

Cellular PVC Exterior Sill Options (Primed Only)

WM 180 Brickmould  Williamsburg  Slimline  WM 180 Brickmould  WM 180 Brickmould with Flange  2" Drip Cap (Lineal only)

Clad Exterior Casing Options

Cellular PVC Exterior Casing Options (Primed Only)

Williamsburg  3-1/2" Flat  3-1/2" Flat with J-channel  4-1/2" Backband  5-1/2" Flat  Plantation (3-1/2" Side; 5-1/2" Head)
Grilles
All of our wood and cellular PVC (CPVC) Windsor Divided Lite bars are hand-fitted to ensure a perfect fit.

Grille Patterns
Some grille patterns are not available in all configurations and products.
Screens

Conventional Screen Mesh
BetterVue® (Standard)
UltraVue®

Patio Door Handle Styles

Classic
Swinging Patio Door Handle
Available in all 10 finishes.

Contemporary
Swinging Patio Door Handle
Available in all 10 finishes.

Euro
Swinging Patio Door Handle
Only available in satin nickel and black.

D-shaped
Sliding Patio Door Handle
Available in all 10 finishes.

Patio Door Handle Finishes

Finishes marked with (*) feature a clear coating that protects the finish against tarnishing and peeling. It extends the rich, bright life of the finish and dramatically delays the aging process.

- White
- Brushed Chrome*
- Polished Chrome*
- Satin Nickel*
- Antique Nickel
- Brass*
- Antique Brass
- Faux Bronze
- Oil Rubbed Bronze
- Black

Patio Door Hinges

Hinges available in all door handle finishes. Hinges marked with (*) are adjustable.

- Painted Guide Hinge*
- Painted Set Hinge*
- Plated Guide Hinge*
- Plated Set Hinge*
- Ball Bearing Hinge

Note: Printing limitations prevent exact color representation. See your Windsor distributor for actual color samples.
Select Options & Accessories*

Interior Finishes

Clear Select Pine  Douglas Fir  Natural Alder  Primed

Clad Exterior Trim

WM 180 Brickmould  Williamsburg

Operating (Crank) Hardware and Finishes

Champagne  White  Bronze  Black  Faux Bronze

Push-out (Lever) Hardware and Finishes

White  Black  Faux Bronze  Oil Rubbed Bronze  Satin Nickel

Retractable Screens

Conventional Screen Mesh  BetterVue®

Windsor’s standard BetterVue screen material provides improved visibility, airflow and insect resistance.

Operating units are available with a standard screen or a retractable screen option. Standard screens are pressure mounted to fit within the frame of the window and are easily installed and removed.

Push-out casements and awnings are available with a retractable screen.

Retractable screens are available in pine, alder and fir wood species and have a solid wood pull at the bottom of the screen for easy operation. These spring-loaded units pull down from the top and lock into place at the sill. All interior tracks and covers come standard with species matched wood veneer.

*Pinnacle Select utilizes the same standard colors, feature colors, anodized finishes, glass and grilles as standard Pinnacle products. (See pages 17-20 for options.)

NOTE: Printing limitations prevent exact color representation. See your Windsor distributor for actual color samples.
Give your home legendary beauty and quality with Windsor’s Legend product line. These finely crafted windows provide your home with the look and feel of painted wood, but provide the outstanding, long-lasting performance of cellular PVC.

Features and Benefits

[1] Engineered, high-endurance cellular PVC materials will not decay, warp, crack, stick or swell

[2] UV protectors and impact modifiers incorporated into cellular PVC material enhance durability

[3] Finely crafted details, like sloped sill with sill nosing, offer traditional beauty and solid density of real wood


[5] DP 50 performance option

[6] Energy efficient double hung balance allows top and bottom sashes to tilt for easy cleaning

[7] Easy installation with nails or screws

[8] Perfect for new construction or replacement of double hung windows; approved for historic renovation

[9] Integral finger pulls in double hung top and bottom sash offer easy opening and closing

[10] No-finger pull option in bottom sash for traditional or historical appearance

[11] Standard EZ Tilt operation on both the top and bottom sash; both sashes tilt in for easy cleaning; spring balance and compression liner available as a value-priced option

[12] Block and tackle balance on standard EZ Tilt is quiet, secure and operates smoothly

[13] High-performance option available

Sizes

Available in hundreds of standard and custom sizes

Glazing

- Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Interior stop glazed with beaded silicone
- Custom and special glass types available

Grilles

Windsor Divided Lite (WDL) = simulated divided lite
- 3/4” and 1” profiled inner grille
- 13/16” flat inner grille
- 7/8” and 1-1/4” WDL
- 5/8” and 7/8” tall putty WDL
- 5/8” and 7/8” short putty WDL
- 2” CPVC simulated check rail
- Standard and custom grille patterns available

Finishes

- Interior and exterior trim can be painted; for exterior applications, do not use paint with an LRV rating of 54 or lower (See Windsor’s Care and Use Guide for details)

Hardware

- Casement crank available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass
- Double hung lock offered in white only

Exterior Trim

- Slimline (not available on casement products)
- WM 180 brickmould (standard)
- WM 180 brickmould with flange
- 2” drip cap (lineal only)
- Williamsburg
- 3-1/2” flat
- 3-1/2” flat with J-channel
- 4-1/2” backband
- 5-1/2” flat
- Plantation
- Double hung sill nose
- 2” bull nose sill nose
- Belly sill nose
- Casement subsill
- 2” casement subsill
- Half round/ellipse sill nose (radius only)

Performance Ratings and Certification

For current performance ratings, visit our website at pro.windsorwindows.com

For Florida Building Commission approvals, including section and installation details, go to floridabuilding.org

High-performance unit requires higher inside sill stop
Legend HBR

Windsor’s finely crafted windows combine the traditional beauty of our Legend frame and low-maintenance aluminum clad sash with a stain-grade wood interior.

Features and Benefits

[1] 25-year CPVC warranty against rotting, warping, cracking or swelling
[2] Cellular PVC exterior with extruded clad sash
[3] Extruded aluminum in 22 standard colors, 20 feature colors and eight anodized finishes; custom colors also available
[4] Architectural trim available in a variety of CPVC casing and sill options, providing a historically accurate appearance
[5] Factory-applied trim details save significant time and cost
[6] Rough openings are identical to standard Legend windows, making it easy to mix and match on the same job
[7] Standard EZ Tilt operation on both the top and bottom sash; both sashes tilt in for easy cleaning
[8] Block and tackle balance on standard EZ Tilt is quiet, secure and operates smoothly
[9] High-performance option available

Sizes

Available in hundreds of standard and custom sizes

Glazing

- Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Interior stop glazed with beaded silicone
- Custom and special glass types available

Exterior Trim

- Clad units available with WM 180 brickmould or williamsburg casing; primed units available with slimline, WM 180 brickmould, WM 180 brickmould with flange, 2” lineal drip cap, williamsburg, 3-1/2” flat, 3-1/2” flat with J-channel, 4-1/2” backband, 5-1/2” flat or plantation casing; double hung sills, 2” bull nose sill nose, belly sill nose, casement subsill, 2” casement subsill or half round/ellipse sill nose

Grilles

Windsor Divided Lite (WDL) = simulated divided lite
- 7/8” and 1-1/4” perimeter grille
- 7/8” and 1-1/4” stick grille
- 3/4” and 1” profiled inner grille
- 13/16” flat inner grille
- 7/8” and 1-1/4” interior wood WDL
- 7/8” and 1-1/4” exterior clad WDL
- 5/8” and 7/8” tall putty WDL
- 5/8” and 7/8” short putty WDL
- 2” tall putty simulated check rail
- 2” exterior low profile simulated check rail
- WDL aluminum clad exteriors come with stain-grade wood or CPVC for primed interiors
- Standard and custom grille patterns available

Finishes

- Interior – Available in Clear Select Pine, primed or painted white interior finishes
- Exterior – Clad products feature heavy-duty extruded aluminum cladding on sash and frame; primed products offer an assortment of traditional trim options
- Patio door frames are primed wood

Clad Colors

- All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
  - 22 standard colors
  - 20 feature colors; custom colors available
  - 8 anodized finishes

Window Hardware

- Casement and double hung hardware available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass

Sliding Patio Door Hardware

- D-shaped handle available in white, brushed chrome, polished chrome, satin nickel, antique nickel, bright brass, antique brass, faux bronze, oil rubbed bronze and black

Performance Ratings

For current performance ratings, visit our website at pro.windsorwindows.com
Legend HBR Impact featuring Seastorm™ Glass

Legend HBR Impact is available in casement, casement picture, casement transom, awning, double hung and double hung picture. True Legend Impact is available in direct set and radius.

Features and Benefits
- 25-year CPVC warranty against rotting, warping, cracking or swelling
- Cellular PVC exterior with extruded clad sash
- Extruded aluminum in 22 standard colors, 20 feature colors and eight anodized finishes; custom colors also available
- Architectural trim available in a variety of CPVC casing and sill options, providing a historically accurate appearance
- Factory-applied trim details save significant time and cost
- Rough openings are identical to standard Legend windows, making it easy to mix and match on the same job
- Standard EZ Tilt operation on both the top and bottom sash; both sashes tilt in for easy cleaning
- Block and tackle balance on standard EZ Tilt is quiet, secure and operates smoothly
- Certified, proven-safe solution against hurricane blasts; laminated glass allows window to crack instead of shatter when under great pressure
- Meets and exceeds modern building codes for the coast’s extreme environmental conditions
- Dampens sounds from traffic, neighbors and the outdoors
- Resistant to interior fading from constant sunlight
- Offers security against intruders with shatterproof and cutter-deterring glass

Sizes
Available in hundreds of standard and custom sizes

Glazing
- Glazed with tape and Dow Corning® 955 silicone sealant – the strongest silicone bonding agent available
- Cardinal SeaStorm™ LoE3 insulated glass standard, featuring stainless steel spacers; tinted, tempered and laminated glass available
- Custom and special glass types available
- Insulated glass utilizes annealed glass on exterior and laminated glass on interior
- Laminated glass features PVB inner layer on units up to 26 square feet and SGP inner layer on units over 26 square feet

Exterior Trim
- Clad windows available with WM 180 brickmould or Williamsburg casing; primed windows available with slimline, WM 180 brickmould, WM 180 brickmould with flange, 2" lineal drip cap, Williamsburg, 3-1/2" flat, 3-1/2" flat with J-channel, 4-1/2" backband, 5-1/2" flat or plantation casing; double hung sill nose, 2" bull nose sill nose, belly sill nose, casement sub sill, 2" casement sub sill or half round/ellipse sill nose

Grilles
- Windsor Divided Lite (WDL) = simulated divided lite
  - 7/8" and 1-1/4" perimeter grille
  - 7/8" and 1-1/4" stick grille
  - 3/4" and 1" profiled inner grille
  - 13/16" flat inner grille
  - 7/8" and 1-1/4" interior wood WDL
  - 7/8" and 1-1/4" exterior clad WDL
  - 5/8" and 7/8" tall putty WDL
  - 5/8" and 7/8" short putty WDL
  - 2" tall putty simulated check rail
  - 2" exterior low profile simulated check rail
  - WDL aluminum clad exteriors come with stain-grade wood or CPVC for primed interiors
  - Standard and custom grille patterns available

Finishes
- Interior – Available in Clear Select Pine, primed or painted white interior finishes
- Exterior – Clad products feature heavy-duty extruded aluminum cladding on sash and frame; primed products offer an assortment of traditional trim options

Clad Colors
All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments
- 22 standard colors
- 20 feature colors; custom colors available
- 8 anodized finishes

Hardware
Available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

Certification
Performance rated to DP 50 overall; structural rating exceeds DP 50. Florida Building Commission approved; exception Dade-Broward small missile
Visit floridabuilding.org for more information; including section details and installation
Legend & Legend HBR
Options & Accessories

Standard Clad Colors (Legend HBR)

<table>
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Feature Clad Colors (Legend HBR)

Custom color matching is also available.

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</tbody>
</table>
Anodized Finishes (Legend HBR)

Interior Finishes  *(White CPVC is the only exterior option offered on Legend products)*

Screens

Casement Crank and Finishes

Double Hung Lock and Finishes

*Legend offered in white only. All finishes available for Legend HBR.*

*NOTE:* Printing limitations prevent exact color representation. See your Windsor distributor for actual color samples.
**Glass**

*Special order item*

- LoE 366 (Standard)
- Dual Low-E
- LoE 240
- LoE 272
- Clear
- Gray Tint
- Bronze Tint
- Obscure
- Satin Etch
- Glue Chip*
- Rain*
- Reed*

**Radius Interior Cellular PVC Trim (Legend)**

- WM 324 • 2-1/4”
  Shown in Pine
- WM 346 • 2-1/4”
  Shown in Pine
- WM 356 • 2-1/4”
  Shown in Oak
- WM 366 • 2-1/4”
  Shown in Fir
- WM 444 • 3-1/2”
  Shown in Alder

**Radius Interior Wood Trim (Legend HBR)**

Custom-fitted wood trim for Legend HBR radius-shaped windows and radius-top doors is available in five moulding styles. These wood styles are available in Clear Select Pine, Oak, Douglas Fir and Natural Alder.

**Exterior Trim**

- Double Hung Sill Nose
- 2” Bull Nose Sill Nose
- Belly Sill Nose

**Cellular PVC Exterior Sill Options**

- Casement Subsill
- 2” Casement Subsill
- Half Round / Ellipse Sill Nose (Radius only)
Exterior Trim

Slimline

WM 180 Brickmould (Casement – Left; Double Hung – Right)

WM 180 Brickmould with Flange

2" Drip Cap (Lineal only)

Cellular PVC Exterior Casing Options

Williamsburg

3-1/2" Flat

3-1/2" Flat with J-channel

Cellular PVC Exterior Casing Options

4-1/2" Backband

5-1/2" Flat

Plantation (3-1/2" Side; 5-1/2" Head)

legend options & accessories
Grilles

All of our wood and cellular PVC Windsor Divided Lite (WDL) bars are hand-fitted to ensure a perfect fit. Tall and short bars are available on casement and direct set. Short bars are available on double hung and patio doors.

**Grille Profiles**

- Standard Insulating Glass
- 3/4" Profiled Inner Grille
- 3/4" Perimeter Grille
- 1" Profiled Inner Grille
- 1" Stick & Perimeter Grille
- 1-1/4" Stick & Perimeter Grille
- 1-1/4" Perimeter Grille
- 1-1/4" Interior Wood Windsor Divided Lite (Legend HBR)
- 1-1/4" Exterior Clad Windsor Divided Lite (Legend HBR)
- 5/8" Tall Putty Windsor Divided Lite (Legend & Legend HBR)
- 5/8" Short Putty Windsor Divided Lite (Legend & Legend HBR)
- 7/8" Interior Wood Windsor Divided Lite (Legend HBR)
- 7/8" Exterior Clad Windsor Divided Lite (Legend HBR)
- 7/8" Short Putty Windsor Divided Lite (Legend & Legend HBR)
- 2" Tall Putty Simulated Check Rail (Legend HBR)
- 2" Exterior Low Profile Simulated Check Rail (Legend HBR)
- 2" CPVC Simulated Check Rail (Legend)
- 2" Tall Putty Simulated Check Rail (Legend HBR)
- 2" Exterior Low Profile Simulated Check Rail (Legend HBR)
- 2" CPVC Simulated Check Rail (Legend)
Grille Patterns
Some grille patterns are not available in all configurations and products.

Patio Door Handle Styles (Legend HBR)
Classic Swinging Patio Door Handle
Available in all 10 finishes.
Contemporary Swinging Patio Door Handle
Available in all 10 finishes.
Euro Swinging Patio Door Handle
Only available in satin nickel and black.
D-shaped Sliding Patio Door Handle
Available in all 10 finishes.

Patio Door Handle Finishes (Legend HBR)
Finishes marked with (*) feature a clear coating that protects the finish against tarnishing and peeling. It extends the rich, bright life of the finish and dramatically delays the aging process.

Patio Door Hinges (Legend HBR)
Hinges available in all door handle finishes. Hinges marked with (*) are adjustable.

NOTE: Printing limitations prevent exact color representation. See your Windsor distributor for actual color samples.
Features and Benefits

1. Thick, multi-chambered extrusions add strength and decrease air infiltration
2. Air spaces in chambers provide for superior energy efficiency
3. 3" frame width; integral, rigid, pre-punched nail fin for easy installation
4. Fusion-welded frame and sash for strong, leakproof construction
5. Available J-channel accessory piece for a smooth finished edge on vinyl siding applications
6. Sloped and pocketed sill for an unbeatable combination of strength and water drainage
7. Lift/pull handles on both top and bottom rails for easy operation
8. Integral weep system for sleek appearance; no flaps, sponges or screens
9. Replacement/retro-fit version available
   - Nail fin removed on all sides at factory
   - Unique blind stop and cap; fills 1/4" of pocket; covers outside of blind stop on old double hung frame
   - Sill angle adapter to accommodate sloped sills
   - Factory-installed jamb jacks with covers
   - Head filler provided
10. Block and tackle balances provide years of smooth operation
11. Easy-to-remove full screen with unique plunger-type engagement
12. Flush-mounted tilt latches for exterior cleaning from inside
13. Vent latch option available

Colors

- Available in standard white or clay, with seven additional painted exterior colors to choose from
- Color encapsulated extrusions for true color throughout vinyl

Grilles

3/4" profiled aluminum grilles are color matched to the unit and installed within the insulated glass air space providing the look of authentic divided lite and allows for easy cleaning

Hardware

Available in white or clay; color matched to window

Warranty

Lifetime Limited Warranty**
10-year warranty on glass

Performance Ratings

For current performance ratings, visit our website at pro.windsorwindows.com

Glazing

- Windsor Glazing System provides 3/4" double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Custom and special glass types available
- Super Spacer® technology provides excellent thermal performance and sound absorption*
- Hot melt butyl secondary seal creates a moisture and gas barrier for improved durability and longevity

*Certain sizes, shapes or glazings may be alternate IG system

**See Next Dimension warranty for more details
Features and Benefits
- Thick, multi-chambered vinyl extrusions are optimized for superior weathering, durability and color retention
- 4” frame width on double hungs and 3-7/16” frame width on single hungs and sliders with integral extruded nail fin for strength and ease of installation
- Air spaces in chambers provide superior energy efficiency
- Fusion-welded frame and sash for strong, leak-resistant construction
- Locking mechanism and check rail interlock to create a tight seal between vent and fixed sash for improved weather performance
- Block and tackle balances provide years of smooth operation
- Integral lift/pull handle located on bottom rail for easy access and operation
- Integral weep system for sleek appearance; no flaps, sponges or screens
- Tilt sash for easy cleaning
- Sloped sill on single hung and double hung, and pocketed sill on slider, provide a traditional appearance
- Available with simulated divided lite or inner grille
- Multi-level profile for attractive architectural sightlines
- Jamb extensions offered as a kit or applied
- Vent latch option available

Glazing
- Windsor Glazing System provides 3/4” double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Custom and special glass types available
- Super Spacer® technology provides excellent thermal performance and sound absorption*
- Hot melt butyl secondary seal creates a moisture and gas barrier for improved durability and longevity

Sizes
Available in hundreds of standard and custom sizes

Colors
Available in standard white or clay, with seven additional painted exterior colors to choose from

Grilles
- 3/4” profiled aluminum grilles are color matched to the unit and installed within the insulated glass airspace providing the look of authentic divided lite and allows for easy cleaning
- 5/8” and 7/8” putty simulated divided lite grilles are available in direct set and radius windows

Hardware
Available in white or clay; color matched to window

Brickmould
Brickmould profile with integral J-channel provides an offset that allows for more nail fin exposure and easier installation

Warranty
Lifetime Limited Warranty**
10-year warranty on glass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

*Certain sizes, shapes or glazings may be alternate IG system
**See Next Dimension warranty for more details
Next Dimension Pro Single Hung

Features and Benefits
• Thick, multi-chambered vinyl extrusions are optimized for superior weathering, durability and color retention
• 2-3/4" frame width with integral extruded nail fin for strength and ease of installation
• Air spaces in chambers provide superior energy efficiency
• Fusion-welded frame and sash for strong, leak-resistant construction
• Lock and keeper creates a tighter seal between the vent and fixed sash for improved weather performance
• Block and tackle balances provide years of smooth operation
• Pocketed sill for unbeatable strength and performance
• Integral lift/pull handle located on bottom rail for easy access and operation
• Integral weep system for sleek appearance; no flaps, no sponges or screens

Glazing
• Windsor Glazing System provides 3/4" double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
• Custom and special glass types available
• Super Spacer® technology provides excellent thermal performance and sound absorption*
• Hot melt butyl secondary seal creates a moisture and gas barrier for improved durability and longevity

Sizes
Available in hundreds of standard and custom sizes

Colors
Available in standard white or clay, with seven additional painted exterior colors to choose from

Grilles
3/4" profiled aluminum grilles are color matched to the unit and installed within the insulated glass air space providing the look of authentic divided lite and allows for easy cleaning

Hardware
Available in white or clay; color matched to window

Warranty
Lifetime Limited Warranty**
10-year warranty on glass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

*Certain sizes, shapes or glazings may be alternate IG system
**See Next Dimension warranty for more details
Next Dimension Pro Slider

Features and Benefits
• Thick, multi-chambered vinyl extrusions are optimized for superior weathering, durability and color retention
• 2-3/4" frame width with integral extruded nail fin for strength and ease of installation
• Air spaces in chambers provide superior energy efficiency
• Fusion-welded frame and sash for strong, leak-resistant construction
• Lock and keeper creates a tighter seal between the vent and fixed sash for improved weather performance
• Pocketed sill for unbeatable strength and performance
• Integral lift/pull handle located on bottom rail for easy access and operation
• Integral weep system for sleek appearance; no flaps, no sponges or screens
• Vinyl sash rollers for easy operation and durability

Glazing
• Windsor Glazing System provides 3/4" double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
• Custom and special glass types available
• Super Spacer® technology provides excellent thermal performance and sound absorption*
• Hot melt butyl secondary seal creates a moisture and gas barrier for improved durability and longevity

Sizes
Available in hundreds of standard and custom sizes

Colors
Available in standard white or clay, with seven additional painted exterior colors to choose from

Grilles
3/4" profiled aluminum grilles are color matched to the unit and installed within the insulated glass air space providing the look of authentic divided lite and allows for easy cleaning

Hardware
Available in white or clay; color matched to window

Warranty
Lifetime Limited Warranty**
10-year warranty on glass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

*Certain sizes, shapes or glazings may be alternate IG system
**See Next Dimension warranty for more details
Features and Benefits
- 4-1/2" frame width built from thick vinyl extrusions
- Fusion-welded frame and panel corners increase strength and maximize weather-proof performance
- Aluminum reinforcement in both interlock stiles for added strength and security
- Smooth operation on four adjustable steel ball bearing rollers on a stainless steel track
- Matching standard transom and sidelite additions for beautiful combinations
- Extruded aluminum threshold cover to protect sill and prevent debris build-up
- Panel anti-lift blocks for added security
- Heavy-duty extruded screen
- Blinds between the glass option available

Glazing
- Windsor Glazing System provides 3/4" double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Custom and special glass types available
- Super Spacer® technology provides excellent thermal performance and sound absorption*
- Hot melt butyl secondary seal creates a moisture and gas barrier for improved durability and longevity

Colors
Available in standard white or clay, with seven additional painted exterior colors to choose from

Grilles
3/4" profiled aluminum grilles are color matched to the unit and installed within the insulated glass air space providing the look of authentic divided lite and allows for easy cleaning

Hardware
D-shaped handle offered in white or clay; satin nickel and faux bronze available on painted exteriors only

Warranty
Lifetime Limited Warranty**
10-year warranty on glass

Performance Ratings
For current performance ratings, visit our website at pro.windsorwindows.com

*Certain sizes, shapes or glazings may be alternate IG system
**See Next Dimension warranty for more details
Our Quality is in the Details

[1] Mullion Post
Next Dimension Pro windows utilize a T-bar mullion post between two windows to provide an attractive appearance, added strength, and to prevent air and water infiltration.

[2] Drywall Return
This accessory provides a groove for drywall to slide into, providing a sleek, finished interior edge.

[3] Integral J-channel (Pro Only)
Provides a smooth, finished edge for vinyl siding applications. Available on single hung, slider, picture and radius.

[4] Drip Cap
Just another detail we added to the top of the mull to ensure water stays out.

3/4" profiled aluminum grilles are color matched to the unit and installed within the insulated glass airspace. This provides the look of authentic divided lite and allows for easy cleaning. 5/8” and 7/8” putty simulated divided lite grilles are available in Signature casement, awning, direct set and radius windows.

Extension jambs are available in pine and oak for stained interiors or in white for painted interiors. These are available as a separate kit or applied.

[7] Sliding Patio Door Hardware
Our patio door handles feature a versatile “D” shape in white, clay, satin nickel* or faux bronze* to coordinate with your door color.

[8] Window Hardware
The beauty of Next Dimension windows is carried right down to the sleek design of our hardware. They are available in clay or white to match the units.

[9] Blinds Between the Glass (Patio Door Only)
Control light and privacy with blinds between the glass. This no-cord, easy-to-clean option adds lift and tilt features, simple operation and long-lasting performance.

[10] Easy-Out™ Sash System (Pro Only)
A feature unique to Next Dimension Pro models, the Easy-Out Sash System is designed for easy removal of the entire lower sash, making installation and replacement easier than ever. And, the Easy-Out Sash System’s pocket design creates consistent pressure against the weatherstrip, meaning no loss in air and water performance.

*Only available on painted exteriors
Next Dimension Options & Accessories

Standard Vinyl Colors

Painted Vinyl Exterior Colors
White vinyl interior is available with white, ivory, tan, bronze, cinnamon, hunter green or black exterior.
Clay vinyl interior is available with bronze or black exterior.
Window Hardware

Signature Casement Crank
Available in white and clay with matching casement lock.

Pro Single Hung & Slider Lock
Available in white and clay.

Classic Single Hung & Slider Lock
Available in white and clay.

Classic Double Hung Lock
Available in white and clay.

Classic Accessories

J-channel Cover
1/2" Mull Cover
Glazing Bead
Brick mould Repair
5/8" Drywall Return
1/2" Drywall Return
Jamb Extension Clip
Drip Cap

Grilles
All cellular PVC Windsor Divided Lite (WDL)* bars are hand-fitted to ensure a perfect fit.

3/4" Profiled Inner Grille
5/8" Putty Windsor Divided Lite (Exterior only) with Flat Inner Grille
5/8" Putty Windsor Divided Lite
7/8" Putty Windsor Divided Lite (Exterior only) with Flat Inner Grille
7/8" Putty Windsor Divided Lite

Glass
*Special order item

LoE 366 (Standard)
Dual Low-E
LoE 240
LoE 272
Clear
Gray Tint

Bronze Tint
Obscure
Satin Etch
Glue Chip*
Rain*
Reed*

*WDL bars available in Classic and Signature casement, awning, direct set and radius windows.
Screens

Grille Patterns

Conventional Screen Mesh
BetterVue® (Standard)
UltraVue®

Sliding Patio Door Handle and Finishes
Finishes are the same for both interior and exterior handles.

Sliding Patio Door Blinds Between the Glass
Door handings are viewed from the interior looking out.
Windsor’s Glazing System offers builders a well-engineered window that is superior in energy efficiency and competitive in price. The highly-automated glass line is tightly monitored throughout the entire process with rigorous quality controls. Three sophisticated technologies will be brought into our plants: a highly-automated fabrication equipment process from Lisec, high-performance glass from Cardinal® and an advanced Super Spacer® all-foam edge application from Edgetech.

Quality Cardinal® LoE 366 Glass
Windsor’s glass fabrication line uses high-performance coated glazing from Cardinal Glass Industries. The insulated glass units produced on this line will be our standard glazing option, featuring 3/4” dual pane LoE 366 insulated glass with argon gas. This IG will deliver improved U-value performance over most other insulated glasses. In addition, Windsor will also produce clear, Dual Low-E and tempered insulated glass. The Dual Low-E glazing option combines Cardinal LoE 366 soft coat with Cardinal i89 LoE to create a super performance insulated glazing solution.

Building on our core values of superior quality, product selection, service and value, Windsor is proud to offer LoE 366 glass in all of our products. We believe the many superior and innovative features of Cardinal LoE 366 glass will bring measurable benefits to homeowners in all regions – and weather conditions – across the country.

State-of-the-Art Lisec® Glass Fabrication Equipment
Windsor has installed an automated manufacturing system from Lisec in our facilities to provide you with the highest quality insulated glass (IG) available on the market today. Our highly-automated glass line requires no manual manipulation, which dramatically reduces seal failures caused by human contact with the glass. The robotic equipment provides an incredible level of accuracy for a fast and efficient material flow. Along with these features, we place our trust in Lisec, a company that has been in business for over 40 years and is the world’s largest manufacturer of IG machinery.

Best overall U-value improvement

Super Spacer® Technology
The Lisec production line features Super Spacer dual-seal moisture barrier technology that is designed to be one of the most thermally-efficient spacers in the marketplace. Super Spacer meets or exceeds ENERGY STAR® guidelines in all zones. The all-foam Super Spacers will reduce heat and cold conduction resulting in more comfortable living for the homeowner and fewer callbacks for the builder.

The 100% polymer foam formula is designed to reduce condensation and have superior Sound Transmission Coefficient levels. The all-foam, warm edge technology of Super Spacer improves thermal performance by over 200% with the best overall U-value improvements compared to a traditional metal-edged spacer. Super Spacer lasts up to five times longer in durability tests than conventional single seal units.

Five times more durable than conventional single seal units

Super Spacer® backed with hot melt butyl
Butyl spacer backed with silicone
Aluminum spacer backed with silicone
Aluminum spacer
Butyl spacer

Acrylic: Thermoplastic glazing material.

Active: An operating panel (X) as viewed from the exterior.

Aerogel: A microporous, transparent silicate foam currently under development for potential use as a glazing cavity fill material, offering very high thermal performance.

Air infiltration: The amount of air leaking in and out of a building through cracks in walls, windows and doors.

Airspacer: A component placed at the perimeter of an insulating glass unit to separate the two lites of glass.


Annealed glass: Standard float glass.

Annealed PVC: An added process in the cellular process to aid in stability of the product.

Arch top: One of several terms used for a variety of window units with one or more curved frame members, often used over another window or door opening. Also referred to as circle heads, circle tops and round tops.

Argon: An inert, nontoxic gas used in insulating glass to reduce heat transfer.


Astragal: The center post between two swinging doors.

ASTM International: Formerly the American Society for Testing and Materials. A trade association that establishes material standards (including glass) and test methods. It has also produced a window installation standard.

Awning: A window with sash swinging outward from the bottom.

Backband: The millwork around the outside edge of the window casing, usually used when the casing consists of flat boards.

Backbedding: A material or compound used to seal the glass to a window sash.

Balance: A mechanical device (normally spring loaded) used in single and double hung windows as a means of counter-balancing the weight of the sash during opening and closing.

Basic: No mulling, no casing, no nail fin/drip cap, but ready for field/shop mulling or field/shop applied casings.

Bay: A combination of window units that project to the exterior. Usually features a large center unit with two flanking units at 30° or 45° angles to the wall.

BETEC: Building Environment and Thermal Envelope Council. Part of the National Institute of Building Sciences, BETEC is an organization representing government and industry, and is involved in communicating government policy and influencing standards development within the industry.

Bi-hinge: Windsor’s term for two panel doors where both panels can open, hinged on the side, with one active panel and one passive panel.

BOCA: Building Officials and Code Administrators. One of the three model code groups in the U.S., now merging to form the International Code Council.

Boot glazed: A glazing method using a vinyl boot to surround the glass. Also called commercial glazing.

Bottom rail: The bottom horizontal member of a window sash or door panel.

Bow: A combination window that projects to the exterior. Usually features four or more window units in a radial or bow formation.

Box bay: A combination of window units that project to the exterior. Usually features a large center unit with two flanking units at 90° angles to the wall.

Breather tube: A tube placed through the airspacer and seal of insulating glass that allows the unit to accommodate changes in pressure between the time and location of manufacture and the time and location of installation, where it is sealed. Usually used to accommodate changes in altitude between plant and job site.

Brickmould: A type of external casing for windows and doors.

Casing: A window with sash cranking outward, to the right or left.

Cаsement: The exposed moulding or profile around a window or door, on either the inside or outside, to cover the space between the window frame or door jamb and the wall.

Caulking: A compound for filling joints and sealing cracks to prevent leakage of water and air.

Cellular PVC (CPVC): An extruded polyvinyl chloride material used in window and door components and trim. Unlike rigid (or hollow) vinyl, it features a foam or cell-structure inside. Can often be nailed, sawn and fabricated like wood.

Cellulosic composite: Generally, a material combining an organic material, such as wood fiber, extruded with a plastic.

Celuka PVC: A process to add to the hardness of the product.

Chain of Custody (CoC): The process of tracking wood that derives from a certified forest through the manufacturing and distribution channels. Most commonly referenced certification systems are FSC and SFI CoC. Facilities that are CoC have the processes in place to track certified wood from the moment it enters the facility to the moment it leaves. Builders who use CoC wood can earn points toward the certification of a home through the LEEDs or NAHB standards.

Check rail: The bottom rail on the upper sash and the upper rail of the lower sash of a double hung window unit, where the lock is mounted. Also referred to as a meeting rail.

Circle top: One of several terms used for a variety of window units with one or more curved frame members, often used over another window or door opening. Also referred to as arch tops, circle heads and round tops.

Cladding: The material placed on the exterior of a wood frame and sash components to provide ease of maintenance. Common cladding materials include vinyl and extruded or roll-formed aluminum.

Clear IG: Two panes of glass sealed to form a dead air space between the two panes of glass.

Clerestory: A window in the upper part of a room with high ceilings that admits light to the center of the room.

Combination door: A screen or storm door used in combination with a primary door. Storm windows also are referred to as combination windows.
**Composite:** A term used for window or door components which consist of two or more materials, such as wood and plastic. Also refers to windows and doors that combine two or more materials in the frame or sash construction, such as a product with a wood interior and a vinyl or aluminum exterior.

**Condensation:** Water vapor from the air deposited on any cold surface that has a temperature below the dew point. Sometimes a problem on cold (and poorly insulated) window glass or framing that is exposed to humid indoor air.

**Corner cleaner:** A machine that removes the bead of excess material formed in welding vinyl window corners.

**Cottage double hung:** A double hung window in which the top sash is shorter than the bottom sash.

**CRF:** Condensation Resistance Factor. A rating of a window's ability to resist condensation. The higher the CRF, the less likely condensation is to occur.

**CRM:** Customer Relationship Management. A computerized system for tracking all contacts with customers and prospects.

**Dade County:** A Florida county, including Miami, which has set numerous standards and requirements for hurricane-resistant windows and doors.

**Daylight opening:** The amount of visual area seen through a piece of glass.

**Desiccant:** A material used to absorb moisture from within the sealed airspace of an insulating glass unit.

**Design pressure (DP):** A measurement of the structural performance of a window or door. Usually specified as one-half times greater than necessary based on expected building wind and weather conditions.

**Direct glaze:** A method of glazing a piece of glass directly to a frame using a stop glazed method. This method is commonly used in direct sets and radius units when no sash is involved.

**Direct set:** A geometric shape that incorporates all straight legs.

**Divided lites:** Separately framed pieces or panes of glass. A double hung window, for instance, often has several lites divided by muntins in each sash. These designs are often referred to as six-over-six, eight-over-one, etc., to indicate the number of lites in each sash. Designs simulating the appearance of separately-framed panes of glass are often referred to as SDLs or simulated divided lites. Designs using actual separate pieces of glass are sometimes referred to as TDLs or true divided lites.

**Dormer:** An area that protrudes from the roof of a house, generally featuring one or more windows.

**Double glazing:** Use of two panes of glass in a window to increase energy efficiency and provide other performance benefits. May or may not refer to an insulating glass unit.

**Double hung window:** A window featuring two operable sashes which move vertically in the frame.

**Double-strength glass:** Glass between 0.115 and 0.133 inches thick.

**Drip cap:** The moulding placed on top of the header brickmould or casing of a window frame.

**Edge effect:** Heat transfer at the edge of an insulating glass unit due to the thermal properties of spacers and sealants.

**Egress window:** A window designed to be large enough for a firefighter to climb in or a person to climb out in an emergency. U.S. building codes require each bedroom of a home to have an emergency exit window, with minimum sizes specified. Generally requires 20” width and 24” height opening and 5.7 square foot opening.

**Electrochromic glazing:** Glass or other glazing material that can be switched from clear to opaque electronically.

**Elliptical:** A double radius unit with tight radius on the end and a flowing/low arc radius on top with the height less than half the width.

**ENERGY STAR:** A program sponsored by the U.S. Department of Energy that establishes minimum performance standards for windows to be recognized as energy efficient. Three different sets of standards for U-value and solar heat gain have been established for different climate zones in the U.S. Qualifying windows have two or more panes of glass, warm-edge spacers between the panes, improved framing materials and LoE coatings.

**ERF:** Enterprise Resource Planning. A computerized system that is used to manage all aspects of a company’s operation.

**EuroWindow:** A consortium of European window, door and curtainwall industry associations involved in the development of common EU standards.

**Extended quarter:** Height greater than the width.

**Extension jamb:** A trim component that extends from the interior of the window frame to the interior wall.

**Extruded aluminum:** A heavier, thicker aluminum product used to clad the exterior of wood windows and doors.

**Extrusion:** The process, in which a heated material is forced through a die, used to produce aluminum, vinyl (PVC), and other profiles or components used in the production of windows and doors. Term also is used to refer to the profiles or lineals manufactured by this process and used to make window and door components.

**Fanlight:** A half-circle window over a door or window with radiating bars.

**Fenestration:** Originally, an architectural term for the arrangement of windows, doors and other glazed areas in a wall. Has evolved to become a standard industry term for windows, doors, skylights and other glazed building openings. From the Latin word, “fenestra,” meaning window.

**Finger-joint:** A toothed joint used to combine two pieces of wood end-to-end.

**Fixed lite:** A non-venting or non-operable window.

**Fixed panel:** A non-operable door usually combined with operable door unit.

**Flashing:** A thin strip of metal or other material that diverts water away from a window, door or skylight.

**Float glass:** Glass produced by a process in which the ribbon is floated across a bath of molten tin. The vast majority of flat glass is now produced using this method. The terms “plate” glass and “sheet” glass refer to older manufacturing methods still in limited use.

**Flush door:** A door produced using two skins or faces separated by a stile-and-rail frame construction at the perimeter. Flush doors may be produced with a hollow core or solid core.

**Fogging:** A deposit or film left on an interior surface of a sealed insulating glass unit due to extreme conditions or failed seals.

**Frame size:** The actual box size of the unit, outside to outside dimensions (not including brickmould). This is an important dimension used with special size Windsor wood windows.

**French doors:** A pair of hinged doors that open from the middle. Also incorporates wider stile and rail components around the glass than typical glazed doors.

**French slider:** A sliding patio door using wider stiles and rails to replicate a French door look.

**FSC:** Forest Stewardship Council. The only globally recognized certification system that guarantees products have been made from environmentally and socially sustainable managed forests. FSC certifies forests and also the manufacturing and distribution chains, which would be CoC. The use of FSC CoC can earn builders points through the LEED and NAHB home certification program.
**Full round:** A circle unit with equal width and height.

**Fusion-weld:** A type of corner construction, used with vinyl and other types of windows and doors, in which a small amount of material on the ends of two pieces are melted or softened, then pushed together to form a single piece. Also referred to as a welded corner.

**Glass size:** The actual glass size of a unit. This is a common callout for most standard size Windsor wood products (except doors).

**Glazing:** The glass (and other materials) in a window or door. Also, the act or process of fitting a unit with glass.

**Glazing stop:** A component of the sash or door that pans horizontally. Also, the referral that holds the glass in place.

**Glider:** A window with a movable sash that glides horizontally. Also referred to as a horizontal sliding window.

**Gothic:** A radius unit that generally comes to a point at the top or a grille design that has a radius look without making a full circle.

**Grille:** Window pane dividers or muntins. It may be a type of assembly fitted to the interior of the window or door unit that can be detached for cleaning. Can be fitted inside the sealed insulating glass unit, when it is referred to as a grid.

**Half round:** A stock or special half round unit where the height is half the width.

**Handing/hinging:** Always viewed from the exterior.

**Hard-coat glass:** A glass product that is coated during the manufacturing process at the molten glass stage. Also known as a pyrolytic coating, this type of coating offers a surface that is generally as durable as an ordinary glass surface, and therefore requires no special handling and does not need to be used in an insulating glass unit. The other type of glass coating is a sputter-coat, which is applied in a secondary process. Sometimes referred to as a soft-coat, these types of coatings generally require some additional care in handling and fabrication, and must be used within an insulating glass unit.

**Head:** The main horizontal frame member at the top of a window or door.

**Header:** The horizontal framing member placed over the rough opening of a window or door to prevent the weight of wall or roof from resting on the frame. Also known as a lintel.

**Heat gain:** The transfer of heat from outside to inside by means of conduction, convection and radiation through all surfaces of a house.

**Heat loss:** The transfer of heat from inside to outside by means of conduction, convection and radiation through all surfaces of a house.

**Hollow-core door:** A flush door constructed with two skins or door faces separated by stiles and rails at the perimeter. Generally, a honeycomb type support is used inside the door between the two faces.

**Hopper:** A window with sash that swings inward from the top.

**Horizontal slider:** A window with a movable sash that slides horizontally. Also referred to as a gliding window.

**IBC:** International Building Code. Published by the International Code Council, the IBC primarily covers nonresidential construction.

**ICBO:** International Council of Building Officials. One of the three model code groups in the U.S., now merging to form the International Code Council.

**IECC:** International Energy Conservation Code. Published by the International Code Council, the IECC sets forth compliance methods for energy-efficient construction of both residential and nonresidential construction.

**Inactive:** A fixed panel (O) as viewed from the exterior.

**Inner bar [simulated spacer channel]:** The spacer bar between the glass in a Windsor Divided Lite (WDL) unit. (This is not GBG.)

**Inner grille:** Windsor's term for a grille between the glass (GBG).

**In-sash:** Glass glazed in a sash before being installed into a frame.

**Insulating glass (IG):** Two or more lites of glass with a hermetically-sealed airspace between them. The sealed space may contain air or be filled with an inert gas, such as argon.

**In-swing:** Panels that swing to the interior, as viewed from the exterior.

**IRC:** International Residential Code. Published by the International Code Council, the IRC primarily covers low-rise residential construction.

**Jalousie:** A window made up of horizontally mounted glass louvers or slats that abut each other tightly when closed and rotate outward when cranked open.

**Jamb:** The main vertical members forming the sides of a window or door frame. Also refers to the horizontal member at the top of the window frame, as in head jamb and side jamb.

**Jamb depth:** The width of a window or door from the interior to the exterior of the frame to meet construction thickness.

**Jambliner:** The track installed inside the jambs of a double hung window, on which the window sash slides.

**J-channel:** Installed or built-in to the side of a window or door, this channel is designed to accommodate the ends of siding pieces to provide a finished appearance.

**Knocked down (KD):** An unassembled window or door.

**Laminated glass:** Two or more sheets of glass with an inner layer of transparent plastic to which the glass adheres if broken. Used for enhanced safety and security, as well as sound reduction.

**LEED:** The Leadership in Energy and Environmental Design. A benchmark system, established by the USGBC, which certifies green homes and buildings through an accumulation of points earned through the implementation of green practices. Buildings can earn LEED, Silver, Gold or Platinum levels of certification.

**Lineal:** A standard length profile or shape that is cut and processed to make window and door components.

**Lintel:** A structural component or beam above a window or door opening that supports the wall above. Also referred to as a header.

**Lite:** A piece of glass. In windows and doors, lite refers to separately framed panes of glass (as well as designs simulating the look of separately framed pieces of glass). Sometimes spelled “light.”

**Lite cut:** The layout of a grille pattern.

**Low-emissivity (LoE) glass:** A coated glass product which reflects heat.

**Managed forests:** Forests that have had a number of management techniques applied to them, including prescribed burning, thinning, harvesting and planting. Well-managed forests provide clean air and water, homes for wildlife, beautiful scenery, places for recreation and more than 5,000 products we use every day. Poorly-managed forests are often unhealthy and unproductive due to overcrowding, disease, insects and competition for light, water and nutrients. Poorly managed forests also account for a large number of wildfires. Managed forests are compatible with FSC and SFI.

**Marine glazed:** A glazing method using a vinyl boot to surround the glass. Also called commercial glazing.

**Masonry clip:** An accessory clip that is used to install windows into brick.
Glossary of Terms

**Masonry opening:** An area in a masonry wall left open for windows or doors.

**MDF:** Medium-density fiberboard. A wood fiber composite used in a variety of window, door, and millwork applications.


**Mechanical window:** A term for a product, usually vinyl, in which the corners are assembled using screws or other fastening mechanisms, as opposed to a welded corner construction. Also referred to as a mechanically fastened window.

**Mullion:** A component used to structurally join two window or door units.

**Multi-point lock:** A locking system, operated with one handle, which secures a window or door at two or more locking points.

**Muntin:** A profile or moulding, either vertical or horizontal, used to separate glass in a sash into multiple lites. Generally refers to components used to construct divided lited grids or grilles simulating a divided lited look.

**NAHB:** National Association of Home Builders. Established criteria to certify green homes and buildings, which is accomplished through an accumulation of points earned through the implementation of green practices.

**Nail fin:** An accessory component or integral extension of a window or patio door frame that generally overlaps the conventional stud construction through which nails are driven to secure the frame in place.

**Narrow slider:** A sliding patio door using narrow stiles and rails for maximum daylight opening.

**NFRC:** National Fenestration Rating Council. A third party certification agency, which developed and operates a uniform national rating system for the energy performance of fenestration products.

**NFRC rating system:** The backbone of the rating system is a procedure for determining the heat transmittance (U-value) of a product. Additional rating systems developed by the NFRC measure Solar Heat Gain Coefficient (SHGC), Visible Transmittance (VT), Air Leakage (AL) and Condensation Resistance.

**Nonrenewable resources:** A limited supply of resources that can’t be replaced once they’ve been extracted and used. These resources are being recycled, such as aluminum and plastic.

**NNWDA:** National Wood Window and Door Association. A trade organization that has established many standards related to wood window and door products. It is now the Window and Door Manufacturers Association (WDMA).

**One-step distributor:** A wholesale company that buys building products from a manufacturer and sells them to builders, contractors and homeowners is referred to as a one-step distributor. A wholesaler that buys building products from the manufacturer and sells them to lumberyards and home centers, which in turn sell to builders, contractors and homeowners, is referred to as a two-step distributor.

**Oriel:** A window style in which the upper sash is larger than the lower sash.

**Out-swing:** Panels that swing to the exterior, as viewed from the exterior.

**Palladian:** A large, arch-top window flanked by smaller windows on each side.

**Panel:** A component, usually wood, mounted within stile and rail members of doors. Also used to refer to the entire door.

**Panning:** In replacement window work, the outside aluminum trim that can extend around the perimeter of the window opening; used to cover up the old window material.

**Parting stop:** A narrow moulding, either integral or applied, that holds a sash or panel in position in a frame.

**Perimeter grille:** A grille with a perimeter frame. Also known as a surround grille.

**Picture window:** A large, non-operating window that is usually longer than it is wide and provides a panoramic view.

**Pivot window:** A unit with a sash that swings open or shut by revolving on pivots at either side of the sash or at top and bottom.

**Polycarbonate:** Plastic material used for glazing.

**Polyvinyl butyral (PVB):** Plastic material used as the interlayer in the construction of some types of laminated glass.

**Polyvinyl chloride (PVC):** Extruded material used for window and door framing.

**Post-consumer recycled material:** Any household or commercial product that has served its original, intended use and then gets recycled.

**Plate glass:** Flat glass produced by grinding and polishing to create parallel plane surfaces affording excellent vision. Although the term is still used commonly, most window glass is now produced using the float process. (See float glass.)

**Pre-consumer recycled material:** Industrial manufacturing scrap that gets recycled.

**Pre-hanger:** A company that buys doors, framing, hardware, glass lites and other components, and prepares (or pre-hangs) the unit for installation.

**Primary active panel:** The active panel (X) of a bi-hinge door.

**Prime window:** A primary window, as opposed to a storm or combination unit added on.

**Primed window:** An optional factory finish making units ready to accept finish coat(s).

**Projected window:** A window in which the sash opens on hinges or pivots. Refers to casements, awnings and hoppers.

**Pultrusion:** The process used to produce fiberglass composite profiles or components used for the production of windows and doors. Also refers to the composite profiles or lineals cut and processed to make window and door components.

**Pyrolytic glass:** A glass product that is coated, usually to provide low-emissivity or solar control benefits, during the manufacturing process at the molten glass stage. Commonly referred to as a hard coat, this type of coating offers a surface that is generally as durable as an ordinary glass surface, and therefore requires no special handling and does not need to be used in an insulating glass unit. The other type of glass coating is a sputter-coat, which is applied in a secondary process. Sometimes referred to as a soft-coat, these types of coatings generally require some additional care in handling and fabrication and must be used within an insulating glass unit.

**Quarter round:** A stock or special quarter round unit where the height and width are equal.

**Radiation:** The transfer of heat in the form of electromagnetic waves from one separate surface to another. LoE glass is designed to reduce this type of heat transfer by reflecting electromagnetic waves.

**Radio frequency (RF):** The technology used with bar code scanners and other input devices in plant and warehouse tracking systems.

**Rail:** The horizontal member of the framework of a window sash or door.

**Reflective glass:** Glass coated to reflect visible light and solar radiation striking the surface of the glass.
RESFEN: A computer program designed to calculate energy use based on window selection in residential buildings.


Roofwindow: An operable unit similar to a skylight placed in the sloping surface of a roof.

Rough opening: A framed opening in a wall into which a window or door unit is to be installed.

Round top: One of several terms used for a variety of window units with one or more curved frame members, often used over another window or door opening. Also referred to as arch tops, circle tops and circle heads.

Round top picture: A true half round with extended legs.

R-value: Resistance to thermal transfer or heat flow. Higher R-value numbers indicate greater insulating value. R-value is frequently used by the insulation industry and is the reciprocal of U-value, a value more generally used in the window industry.

Safety glass: Strengthened or reinforced glass that is less subject to breakage or splintering and less likely to cause injury if broken. Law requires glass in doors to be some type of safety glazing product, such as tempered or laminated glass.

Sash: An assembly of stiles and rails (vertical and horizontal members) made into a frame for holding glass.

Sash cord: A rope or chain in double hung windows that attaches the sash to the counter balance.

Sash lift: A protruding or recessed handle on the inside bottom rail of the lower sash in a double or single hung window.

Sash size/sash opening: The actual sash opening of a unit. A generic or common callout for double hung products.

Sash weights: The concealed cast iron weights used to counterbalance the sash of older double hung windows.

SBCCI: Southern Building Code Congress International. One of the three model code groups in the U.S., now merging to form the International Code Council.

Secondary active panel: The passive panel (X) of a bi-hinge door.

Segment top (seg-top) picture: A segment radius unit with legs of same dimensions.

Segment top (seg-top) quarter: A segment radius unit with different dimensions for the legs.

Self-cleaning glass: Glass treated with a special coating. Currently, commercially available products feature a coating that uses the sun’s N rays to break down organic dirt through what is called a photocatalytic effect. The coating also provides a hydrophilic effect, which reduces the surface tension of water to cause it to sheet down the surface easily and wash away dirt.

Sequential locking system: A type of multi-point locking system used on casement windows. Lower locks engage and partially close sash before upper locks engage.

Set-up: A unit complete with all mulling and casings applied, ready to install in rough opening.

SFI: Sustainable Forest Initiative. An initiative dedicated to improving sustainable forest management in the United States and Canada. SFI certifies forests and also the manufacturing and distribution chains, which would be CoC. The use of FSC CoC wood can earn homes points toward certification through the NAHB program.

Shading coefficient (SC): A measure of a window’s ability to transmit solar heat, relative to that ability for a single pane of clear glass. The lower a unit’s shading coefficient, the less solar heat it transmits, and the greater its shading ability. This method of measurement is being phased out in favor of the solar heat gain coefficient (SHGC).

Sheet glass: Transparent, flat glass found in older windows, now largely replaced by float glass.

Sidelite: Narrow fixed units mulled or joined to operating door units to give a more open appearance.

Sill: The main horizontal member forming the bottom of the frame of a window or door.

Sill nosing: A double hung part added to the main sill of a unit.

Simulated divided lites [SDLs]: A type of grille or grid design that creates the appearance of a number of smaller panes of glass separated by muntins, but actually uses larger lites of glass with the muntins placed between and/or on the surfaces of the glass layers.

Single glazing: A single lite of glass in a window. Generally not as energy efficient as insulating glass or other forms of double-glazing.

Single hung: A window resembling a double hung, or vertically sliding window, with a fixed top sash.

Single-strength glass: Glass with thickness between 0.085 and 0.100 inches.

Skin: A single piece of material used as the face of a door.

Slab: A complete door panel that has not been prepared for installation into a frame.

Smart window: A generic term, sometimes used for windows offering high energy efficiency or windows featuring switchable glass to control solar gain.

Solar control glass: Glass produced with a coating or tint that absorbs or reflects solar energy, thereby reducing solar gain.

Solar heat gain coefficient (SHGC): A rating, which is now generally replacing shading coefficient, measuring a window’s ability to transmit solar heat. It measures both the solar radiation which is directly transmitted, as well as the solar radiation absorbed by the glass and subsequently transmitted. The lower a unit’s solar heat gain coefficient, the less solar heat it transmits and the greater its shading ability. It is approximately equal to the shading coefficient divided by 1.15. It is expressed as a number without units between 0 and 1.

Solid-core door: A flush door produced with a solid material placed within the door skins.

Soft-coat glass: A glass product that is coated in a secondary process known as sputter-coating, usually to offer low-emissivity or solar control benefits. The term refers to the fact that these types of coatings generally require some additional care in handling and fabrication and must be used within an insulating glass unit. A hard-coat or pyrolytic glass is coated during the manufacturing process at the molten glass stage. This type of coating offers a surface that is generally as durable as an ordinary glass surface, and therefore requires no special handling and does not need to be used in an insulating glass unit.

Sound transmission class [STC]: A rating measuring a window’s acoustic properties or its ability to reduce sound transmission. An STC rating is determined by measuring the sound transmission over a selected range of sound frequencies. The higher the number, the less sound transmitted.

Spectrally-selective glass: A coated or tinted glazing with optical properties that are transparent to some wavelengths of energy and reflective to others. Typically, spectrally-selective coatings are designed to allow high levels of visible light or daylight into a building and reflect short-wave and long-wave infrared radiation.
Spread mull: A term used for adding a space between mulls. This dimension is based on width between frames, not exterior casing size.

Sputter-coating: A secondary manufacturing process in which a thin layer of materials, usually designed to offer low-emissivity or solar control benefits, is applied to glass. Sputter-coatings are commonly referred to as soft-coats, as they generally require some additional care in handling and fabrication and must be used within an insulating glass unit. A hard-coat or pyrolytic glass is coated during the manufacturing process at the molten glass stage. This type of coating offers a surface that is generally as durable as an ordinary glass surface, and therefore requires no special handling and does not need to be used in an insulating glass unit.

Stat/stationary: Does not move.

Stick grille: A grille without a perimeter.

Stile: The main vertical frame members of a sash or door.

Stile-and-rail door: A traditional type of wood door constructed with vertical stiles and rails with openings filled with raised wood panels or glass.

Stool: An interior trim piece sometimes used to extend a window sill and act as a narrow shelf.

Stop: A moulding used to hold, position or separate window or door parts; or the moulding or component on the inside of a window frame against which the window sash rests or closes. Also referred to as a bead, side stop, window stop or parting stop.

Stop glazed: A typical method using a stop with a glazing compound to make the seal.

Stud pocket: A spread Mull with field knock out blocks for studs to run between mull ed units.

Subsill: A casement part added to the bottom front of a casement to form the slope of sill.

Super window: A generic term for a window with a very low U-value. Typically incorporates multiple glazings, LoE coatings, gas fills and an insulating spacer.

Sustainability: One aspect of the green movement that is commonly referenced. This focuses on the responsible use and management of resources, specifically concentrating on the use of renewable resources, rather than finite resources.

Swinging door: Windsor’s term for all swinging door options, including singles, bi-hinge, center hinge; one, two and three panel options.

Tempered glass: Glass heat treated to withstand greater than normal forces on its surface. When it breaks, it shatters into small pieces to reduce hazard.

Tenon: A rectangular projection cut out of a piece of wood for insertion into a mortise.

Thermal break: A thermally insulating or low-conductance material used between interior and exterior aluminum (or other conductive material) window and door components.

Tilt window: A single or double hung window with operable sash that can be tilted into a room to allow cleaning of the exterior surface on the inside.

Tints: Gray and bronze, available as standard options on clear or LoE IG.

Transom: A window used over the top of a door or window, primarily for additional light and aesthetic value.

Triple glazing: Use of three panes of glass or plastic with two airspaces between. Generally refers to a sealed insulating unit.

True divided lites (TDLs): A traditional window construction incorporating smaller panes of glass actually separated by muntins, rather than simulating such an appearance with larger lites of glass and a muntin grid or grille placed between or on the surfaces of the glass layers.

Tubular/hollow PVC: An extrusion technique used for PVC windows to increase structural strength.

Two-step distributor: A wholesale company that buys building products from the manufacturer and sells them to lumberyards and home centers, that buys building products from the manufacturer and sells them to builders, contractors and homeowners. A wholesaler, which buys building products from a manufacturer and sells them to builders, contractors and homeowners, is referred to as a one-step distributor.

U-factor: A rate of heat flow-value through a building component, from room air to outside air. Also referred to as U-value. The lower the U-factor, the better the insulating value. U-factor, a rating more generally used in the window industry, is the reciprocal of R-value, a rating commonly used in the insulation industry.

Ultraviolet light (UV): Invisible rays of solar radiation at the short-wavelength violet end of the spectrum. Ultraviolet rays can cause fading of paint finishes, carpets and fabrics, as well as deterioration of some materials.

Unit size: The overall dimensions of a window unit, including brickmould, subsill, etc. for primed units. Frame size and unit size are the same for clad Windsor products.

uPVC: A polyvinyl chloride product commonly used in many construction products. The added “u” stands for unplasticized or rigid PVC. The “u” does not mean UV stabilized; all PVC is UV stabilized.

USGBC: United States Green Building Council. A nonprofit organization that promotes green building practices and educates people within the industry on what it means to be green. This organization is comprised of people in different realms of the building industry and has set the benchmark for the LEED home certification program.

Vinyl: A generic term for polyvinyl chloride or PVC, an extruded material used for window and door framing.

Warm-edge: A type of insulating glass construction using an air spacer offering lower thermal conductance than traditional aluminum spacers. Warm-edge IG units typically offer higher resistance to condensation and an incremental improvement in window energy performance.

WDMA: Window and Door Manufacturers Association. Formerly the National Wood Window and Door Association, this trade organization has established many standards related to wood window and door products.

Weatherstripping: A material or device used to seal the openings, gaps or cracks of venting window and door units to prevent water and air infiltration.

Weep hole: A small opening in a window or sill member through which water may drain to the building exterior.

Weld: A type of corner construction, used with vinyl and other types of windows and doors, in which a small amount of material at the two pieces are melted or softened, then pushed together to form a single piece. Also referred to as a fusion-weld.

Wet glazed: A typical method using a stop with a glazing compound to make the seal.

Wildland/urban interface: An area where buildings are bounded by wild or natural areas, which are a particular concern in regions where wildfires are a concern. Some fire and code officials are looking at the establishment of fire-resistance requirements for exterior building products in these "interface" areas.

Windload: The force exerted on a surface by moving air.
See our website for additional information:

**For Product Dimensions** – Click on “Professionals” in the top right corner of the site and then click on Resources > Architectural Reference Information

**For Installation Instructions** – Click on “Professionals” in the top right corner of the site and then click on Resources > Installation Instructions

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