





When you select JELD-WEN replacement windows and doors, you are choosing products that stand out from the crowd in their quality, design, reliability and innovation. This brochure is simply the first step in creating a vision for your home. We look forward to partnering with you to bring that vision to real life.



BRAVO COLLECTION

Our Bravo Collection raises the standard for value, delivering the optimal mix of reliable performance, energy efficiency, popular options and affordability. These classic products will make your home beautiful and provide peace of mind.

Bravo vinyl windows and patio doors are available in sliding, single-hung, fixed, radius and geometric window styles and sliding patio doors.

Be sure to consider the variety of options and make choices that will increase the visual appeal, performance and efficiency of your windows. From grilles between the glass to textured glass, you have the flexibility to customize any window or patio door from our Bravo Collection to fit the character of your home and reflect your personal tastes.

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Sliding



Single-Hung

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Fixed, Radius and Geometric

BRAVO

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Sliding Patio Door



WEN-Lock[®]

Featured on all Bravo single-hung and sliding windows, the WEN-Lock is our exclusive automatic lock system. It features a slim profile that's easy to engage, as well as a tamper resistant design, providing safety and security for your home.

Color options

Bravo vinyl windows and patio doors are available in White or Desert Sand, two versatile shades designed to complement many popular trim and house paint colors. Our vinyl is extruded, so you can expect the color to remain true over years of exposure to the elements.



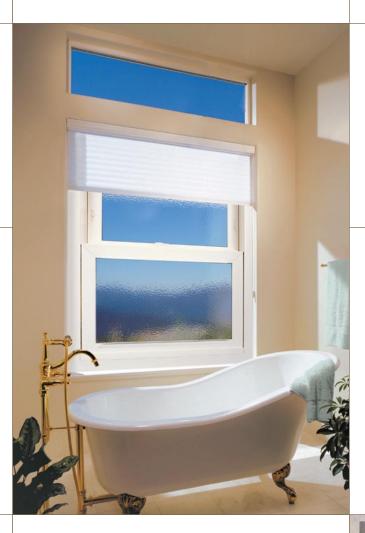


The visible latch indicator (VLI) shown below allows you to know whether the window is locked (left) or unlocked (right). The VLI can only be seen from indoors.



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Selecting from our broad offering of glass options can be an enjoyable experience. Whether you are looking for increased energy performance, a distinctive design element or more privacy, we have the glass option for you.



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Tinted





Azurlite





Green

Bronze









Glue Chip

Textured

Obscure

Rain

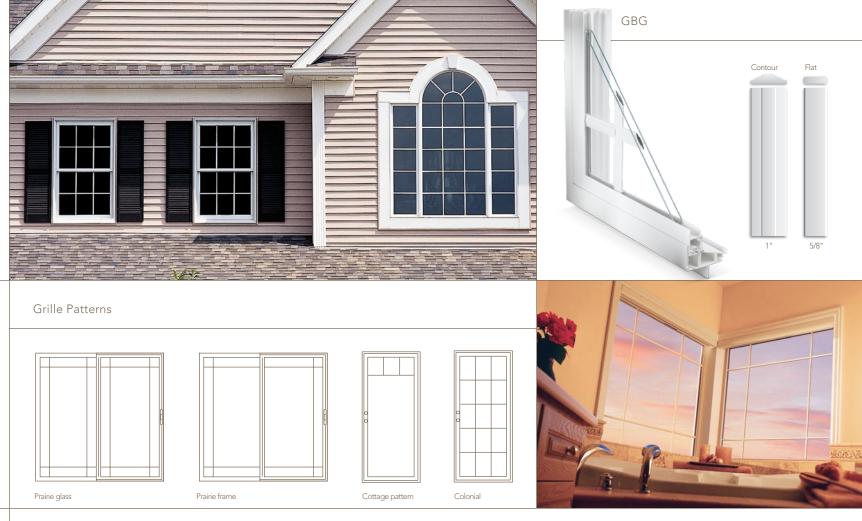
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Grilles Between the Glass (GBG)

Add character to your home with grilles between the glass. This low maintenance choice requires no upkeep and allows for easier window cleaning. We offer flat or contoured grilles in several patters, both in Desert Sand and White, for maximum design flexibility.





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BRAVO





BRAVO SLIDER

Overview

The Bravo slider features a clean, streamlined look, which makes them a good choice for many homes. Each sliding window has one stationary sash and one sash that slides to right or left horizontally on a track. The operating sash can easily be removed to make cleaning easy. Bravo sliders also feature the WEN-Lock[®] automatic lock for convenient peace of mind.



Standard Features

- » Color: White
- » ¾" overall double-strength insulating glass with Warm-Edge spacer
- » Low-E glass
- » Frames assembled utilizing fusionwelded technology for greater strength and stability
- » Exclusive WEN-Lock® with visible latch indicator
- » High-quality finpile weatherstrip applied along the full perimeter of the operating sash
- » Overall frame width is 2-7/8"
- » Metal reinforced meeting rail for extra strength in high wind areas
- » Fiberglass Charcoal color insect screen in an aluminum frame that matches the frame color of the window
- » R20-DP rated



Optional Features

- » Color: Desert Sand
- » Grilles between the glass (GBG) in 5/8" flat or 1" contoured grilles
- » LoĒ³-366 high performance glass
- » Decorative and privacy glass options include obscure, glue chip, rain, or reed
- » Solar control glazing options include Bronze Tint, Grey Tint, Azurlite, Evergreen and Solar Cool
- » Frames available with nailing fin, block frame or integral double wall flush fin to accommodate all replacement installations
- » Tempered glass available with all glazing options
- » Single action cam-style lock





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Overview

BRAVO SINGLE-HUNG

With a classic look that's appropriate for nearly any home, Bravo single-hung windows feature a stationary top lite and a bottom sash that slides vertically. The design of the window allows for removal of the bottom sash to make cleaning easier. Bravo singlehung windows come standard with the WEN-Lock[®] for safe and secure automatic locking.



Standard Features

- » Color: White
- » ¾" overall double-strength insulating glass with Warm-Edge spacer
- » Low-E glass
- » Frames assembled utilizing fusionwelded technology for greater strength and stability
- » Exclusive WEN-Lock[®] with visible latch indicator
- » Removeable side-load sash for easy cleaning
- » Block and tackle balance system for quiet, effortless sash operation
- » High-quality finpile weatherstrip applied along the full perimeter of the operating sash
- » Overall frame width is 2-7/8"
- » Metal reinforced meeting rail for extra strength in high wind areas
- » Fiberglass Charcoal color insect screen in an aluminum frame that matches the frame color of the window
- » R20-DP rated

Optional Features

- » Color: Desert Sand
- » Grilles between the glass (GBG) in 5/8" flat or 1" contoured grilles
- » LoĒ³-366 high performance glass
- » Decorative and privacy glass options include obscure, glue chip, rain, or reed
- » Solar control glazing options include Bronze Tint, Grey Tint, Azurlite, Evergreen and Solar Cool
- » Frames available with nailing fin, block frame or integral double wall flush fin to accommodate all replacement installations
- » Tempered glass available with all glazing options
- » Single action cam-style lock

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BRAVO FIXED, RADIUS AND GEOMETRIC

Standard Features

- » Color: White
- » ¾" overall double-strength insulating glass with Warm-Edge spacer
- » Double strength (1/8") glass with Low-E
- » Frames assembled utilizing fusionwelded technology for greater strength and stability
- » Overall frame width is 2-7/8"
- » R20-DP rating

Optional Features

- » Color: Desert Sand
- » LoĒ³-366 high performance glass
- » Grilles between the glass (GBG) in 5/8" flat or 1" contoured grilles. Special grill patterns available for radius windows
- » Decorative and privacy glass options include obscure, glue chip, rain, or reed
- » Solar control glazing options include Bronze Tint, Grey Tint, Azurlite, Evergreen and Solar Cool
- » Frames available with nailing fin, block frame or integral double wall flush fin to accommodate all replacement installations
- » Tempered glass available with all glazing options

Select Bravo fixed, radius and geometric windows to frame your favorite view. Available in a wide variety of shapes, with either curved or angular frames, we design them to be used as freestanding units or in combination with other vinyl windows and patio doors.



BRAVO SLIDING PATIO DOORS

Overview

The perfect complement for your patio or deck, our Bravo sliding patio doors open by sliding along horizontal tracks. Available in left or right hand configurations, they feature a contemporary handle set with a heavy-duty lock.





Sliding Patio Door

- » Standard features
- » Color: White
- » 3/4" overall tempered insulating glass with Warm-Edge spacer
- » Low-E glass
- » All frames are assembled utilizing fusion-welded technology for greater strength and durability
- » Sliding fiberglass Charcoal color insect screen in an aluminum frame that matches the door frame
- » Heavy-duty lock
- » Full perimeter weatherstrip
- » Overall frame width is 4-1/2"
- » R20-DP Rating

Optional Features

- » Color: Desert Sand
- » Keyed cylinder lock
- » Grilles between the glass (GBG) in 5/8" flat or 7/8" contoured grilles
- » Grille patterns include colonial, prairie frame, prairie glass or cottage
- » LoĒ³-366 high performance glass
- » Three panel door configurations
- » Frames available with nailing fin, block frame or flush fin to accommodate all replacement installations

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BRAVO VINYL STRUCTURAL	AAMA/WDMA						
PERFORMANCE	101 / I.S. 2 / A440-05						
Product	Config.	Performance Grade and Class (DP) Rating	Max Size Tested	Water Performance (psf)	Air Performance (cfm/ft2)		
	Single Unit	R20 standard	48x96	3.00	< 0.2		
	Single Unit w/ transom	R20 standard	48x96	3.00	< 0.2		
	Triple	R20 standard	144×60	3.00	< 0.2		
	Triple	R20 standard	108×84	3.00	< 0.2		
	XOX	R20 standard	108×84	3.00	< 0.2		
Single-Hung Side-Load	XOX	R20 standard	144×60	3.00	< 0.2		
	XOX w/ transom	R20 standard	96x72, 120x54	3.00	< 0.2		
ſ	XOX w/ transom	R20 standard	120x54	3.00	< 0.2		
ſ	Twin w/ transom	R20 standard	72x96	3.00	< 0.2		
	Twin w/ transom	R20 standard	96x72	3.00	0.20		
	ХО	R20 standard	72x72	3.00	< 0.1		
Horizontal Slider	XOX	R20 standard	120x60	3.00	< 0.1		
ĺ	XOX w/ transom	R20 standard	120x72, 72x120	3.00	< 0.1		
	0	R20 standard	96x72	3.00	< 0.1		
	00	R20 standard	108x48	3.00	< 0.1		
Picture	OO w/ transom	R20 standard	96.5x107.5	3.00	< 0.1		
	000	R20 standard	107.5x21.5	3.00	0.2		
	0	R50 option	72x76.5	7.50	< 0.1		
	XO	R20 standard	95.5x95.5	3.00	< 0.2		
Sliding Patio Door	OXO	R20 standard	142×95.5	3.00	< 0.1		
Sidelite	0	R20 standard	48x96	3.00	< 0.1		



		BRAVO VINYL TH	IERMAL RATINGS			
Series	Glazing	Spacer	U-Value	CR	No Grids	
	Cidzing				SHGC	
Single-Hung Side-Load	Clear	Intercept	0.49	40	0.66	
	Low-E 272	Intercept	0.34	49	0.35	
	Low-E 272 Argon	Intercept	0.32	51	0.35	
	Low-E 366	Intercept	0.34	50	0.23	
	Low-E 366 Argon	Intercept	0.31	51	0.23	
	Clear	Intercept	0.49	40	0.66	
	Low-E 272	Intercept	0.34	49	0.35	
Horizontal Slider	Low-E 272 Argon	Intercept	0.32	51	0.35	
	Low-E 366	Intercept	0.34	50	0.23	
	Low-E 366 Argon	Intercept	0.31	51	0.23	
	Clear	Intercept	0.48	42	0.69	
	Low-E 272	Intercept	0.33	53	0.37	
Picture	Low-E 272 Argon	Intercept	0.30	55	0.37	
	Low-E 366	Intercept	0.32	53	0.24	
	Low-E 366 Argon	Intercept	0.30	55	0.24	
	Clear	Intercept	0.47	41	0.64	
	Low-E 272	Intercept	0.32	51	0.35	
Transom	Low-E 272 Argon	Intercept	0.30	53	0.34	
	Low-E 366	Intercept	0.32	51	0.24	
	Low-E 366 Argon	Intercept	0.30	53	0.24	
	Clear	Intercept	0.48	40	0.65	
	Low-E 272	Intercept	0.33	48	0.35	
Sliding Patio Door	Low-E 272 Argon	Intercept	0.31	50	0.35	
	Low-E 366	Intercept	0.33	49	0.23	
	Low-E 366 Argon	Intercept	0.30	50	0.23	
	Clear	Intercept	0.47	42	0.51	
	Low-E 272	Intercept	0.35	52	0.28	
Sidelite	Low-E 272 Argon	Intercept	0.34	54	0.28	
	Low-E 366	Intercept	0.35	53	0.19	
	Low-E 366 Argon	Intercept	0.33	55	0.19	

JELD WEN.

replacement windows & doors

JELD-WEN[®] products¹ are designed to create lasting value for your home. This warranty is effective for all JELD-WEN vinyl products manufactured on or after **August 1**, 2008 for use in the United States². Any previous warranties will continue to apply to products manufactured by JELD-WEN prior to this date. For additional information, including care, maintenance and installation instructions, refer to **www.jeld-wen.com**.

What this warranty COVERS

We warrant that JELD-WEN products will be free from defects in material or workmanship as identified below from the date of manufacture for the time periods described below.

Owner-Occupied Single-Family Residence Limited Lifetime Warranty

We warrant our products to the original owner of the owneroccupied single-family residence in which they are initially installed **for as long as you own and occupy your residence** (except as indicated under Special Coverages below). This warranty includes *free* replacement parts and any skilled labor³ (where deemed necessary by us) to repair or replace components of the window or patio door.

Transferability

The Owner-Occupied Single-Family Residence warranty is transferable as follows. In the event you sell your residence or it becomes occupied by other than the original owner, the warranty is **ten (10)** years from the date of manufacture. Skilled labor³ (where deemed necessary by us) to repair or replace any component is provided for **two (2)** years from the date of manufacture.

Commercial Ten Year Limited Warranty (Other than Owner-Occupied Single-Family Residence)

We warrant our products to be free from defects in material or workmanship for a period of **ten (10)** years (except as indicated under Special Coverages below) from the date of manufacture. This warranty includes **free** replacement parts to replace components of the window or patio door. Skilled labor³ (where deemed necessary by us) to repair or replace any component is provided for **two (2)** years from the date of manufacture.

Transferability

The Commercial warranty is transferable as follows. In the event you sell the building, this warranty is transferable to subsequent owners. JELD-WEN VINYL WINDOW & PATIO DOOR WARRANTY Our warranty to you...

Special Coverages (Applies to both Owner-Occupied and Commercial)

The following components will be free from defects in material or workmanship from the date of manufacture. This warranty includes *free* replacement parts; skilled labor³ necessary to replace components of the window or door is provided as stated above.

ImpactGard[®] Glass: We warrant each ImpactGard glass unit for ten (10) years.

Special Glazings (including laminate glass units other than ImpactGard): We warrant special glazings (including glass options not listed in our product literature e.g., leaded or decorative glass) for **five (5)** years.

Blinds/Shades Between the Glass: We warrant the insulated glass unit (including the seal), the external control mechanism, and the operation of the shade/blind for ten (10) years.

Spontaneous Glass Breakage: We warrant sealed glass units installed in windows and patio doors (excluding laminated glass, and special glazings) for spontaneous breakage for **one (1)** year (to include free relpacement glass and skilled labor³ necessary to replace the glass for **one (1)** year. Spontaneous breakage occurs when the glass develops a crack without sign of impact.

Retractable Screens: We warrant retractable roll screens for five (5) years.

Accidental Glass Breakage and Screen Damage: On our Bravo and Primo Replacement window and patio doors product lines, our standard component warranty (Owner-Occupied or Commercial) will extend to screen damage and to glass breakage (for products ordered with double-strength or thicker annealed glass only), unless the damage is attributable to acts of nature (e.g. fire, hurricane, etc.), civil disorder, building settling, structural failures of walls or foundations or improper installation, storage, or handling. Special glazings and ImpactGard glass are not covered by this glass breakage warranty.

How To Get Assistance

If you have a problem with your JELD-WEN product, contact the dealer/distributor or contractor from whom you purchased your product or contact us directly:

Mail: JELD-WEN Customer Care Attn: Vinyl Warranty Claims P.O. Box 1329, Klamath Falls, OR 97601 Phone: 888-JWHelpU (888-594-3578) Fax: 800-436-5954

E-mail: jeldwenwarranty@jeld-wen.com

We can respond quickly and efficiently if you provide the following: a) product identification (from the original order/invoice, spacer code, permanent label, or the window identification number found on corner of glass), b) how to contact you, c) the address where the product can be inspected, and d) a description of the apparent problem and the product (photographs are helpful).

WARRANTY

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What We Will Do

Upon receiving your notification, we will send out an acknowledgement within three business days. We will investigate your claim and will begin to take appropriate action within 30 days after notification. If it is determined that the product does not have a defect covered by the labor warranty, we may charge an inspection fee for any onsite inspection that is required or requested by you. Because manufacturing materials and techniques can change, replacement part(s) may not be an aesthetic match to the original. Replacement components/products are warranted for the balance of the original product warranty or 90 days, whichever is longer. If we determine we are unable to provide replacement parts and repair is not practicable or cannot be made timely, then we will refund the unit/component purchase price. This guarantee gives you specific legal rights, and you may have other rights that vary from state to state.

What This Warranty Does NOT Cover

JELD-WEN is not liable for:

- Normal wear and tear; natural weathering of surfaces.
- Normal wear and tear to hardware and naturally occurring changes to hardware finishes (e.g., corrosion or tarnishing).
- Damage caused by chemicals (e.g. brick wash) or a harsh environment (e.g., salt spray or airborne pollutants).
- Product failure due to misuse or abuse; damage caused by failure to provide maintenance, by alteration or modification to the window (e.g. customer applied tints or films, paint finishes, security systems), or as a result of any cause beyond the control of JELD-WEN (e.g. fire, flood, earthquake, other acts of nature, and acts of third parties outside of our control).
- Glass breakage (except as specifically covered above).
- Slight imperfections or wavy distortions in the glass that don't impair structural integrity. Note: wavy distortions in the glass (e.g. related to laminate interlayer or heat strengthening of glass) are not considered a defect. Slight color variations in glass are not considered a defect.
- Improper installation not in conformance with JELD-WEN installation instructions (note: see www.jeldwen.com for current installation instructions); operational problems and problems related to water and/ or air infiltration/leaking as a result of improper installation or flaws in building design or construction.
- Damage or poor product performance resulting from installation into a condition that exceeds product design standards and/or certified performance specifications and/or is not in compliance with building codes.
- Damage caused by extreme artificial temperature buildup or exposure (e.g., where storm doors/windows are present).
- Product or component performance decline due to aging, inert gas dissipation, natural processes or failure to provide proper maintenance. Note: Other than inert gas loss due to seal failure, the migration of an inert gas, such as argon, is a natural process that occurs over time and is not a defect.
- Screen damage due to normal wear and tear, misuse, abuse, or insect or animal activity (except as specifically covered above).
- Condensation or damage as a result of condensation (Note: unless due to insulating glass failure, most condensation problems are related to excessive humidity levels in a structure. Contact a heating/air conditioning specialist for help).
- Labor and materials for repainting or refinishing activities or the removal or disposal of defective product(s); labor exceeding the time periods specified above.
- Incidental or consequential damage. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this may not apply to you.

Important Legal Information

This Warranty sets forth our maximum liability for our products. We shall not be liable for special, indirect, consequential, or incidental damages. Your sole and exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified above. We make no other warranty or guarantee, either express or implied, including implied warranties of merchantability and fitness for a particular purpose to the original purchaser or to any subsequent user of the product, except as expressly contained herein. In the event state or provincial law precludes exclusion or limitation of implied warranties, the duration of any such warranties shall be no longer than, and the time and manner of presenting any claim thereon shall be the same as, that provided in the express warranty stated herein.

No distributor, dealer or representative of JELD-WEN has the authority to change, modify or expand this warranty. The original purchaser of this product acknowledges that they have read this warranty, understand it and are bound by its terms and agrees to provide this warranty to the original owner of the structure into which the product is installed.

¹ "JELD-WEN products" shall refer to vinyl window and patio door products manufactured in the United States and marketed under the JELD-WEN brand name for use in the United States.

² For warranty coverage on vinyl products manufactured in the United States and installed in Canada, please see our Canadian Warranty or call (888)-JWHELPU for assistance.

³ "Skilled labor" refers to tasks where specialized technical knowledge, experience, methods or tools are required to properly identify, diagnose and/or correct product-related problems.

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Official window, door and millwork provider of the PGA TOUR and Champions Tour



JELD-WEN reserves the right to change product specifications without notice. Please check our website, www.jeld-wen.com, for current information.



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RELIABILITY for real life*

