

Bravo Vinyl Windows



JELEWEN. replacement windows & doors	
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 has repeatedly raised the standard for value over the years, 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 double-hung tilt sash, single-hung tilt sash, horizontal slider, bay, bow, 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 energy 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.







Double-Hung Tilt Sash



Single-Hung Tilt Sash



Horizontal Slider



Bay/Bow



Fixed, Radius and Geometric



Sliding Patio Door

# /en.com

# 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.

### Cam-lock

Featured on all doublehung windows and as an option on single-hung and sliding windows, this simple, classic choice never goes out of style.





# 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.









# Tinted



Low-E

LoĒ3-366



Bronze



Grey

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.

# **Textured**



Obscure



Glue Chip





Reed

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 patterns, both in Desert Sand and White, for maximum design flexibility.





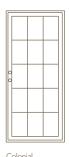














Colonial







## BRAVO DOUBLE-HUNG TILT SASH





#### Overview

With an elegant look that is appropriate for many classic homes, JELD-WEN Bravo double-hung windows feature two operating sash that bypass vertically. The design of the windows allows both sash to tilt inward for easy cleaning. You'll enjoy the creative freedom of many options to make each window fit your vision.

#### Standard Features

- » Vinyl Color: White
- » 3/4" overall double strength insulating glass with warm-edge spacer
- » Low-E glass with Argon gas
- » Frames assembled utilizing fusion-welded technology for greater strength and stability
- » Both sash tilt for easy cleaning
- » Single action cam-style lock, double locks on 32" and wider sash for extra security
- » Finpile weatherstrip applied along full perimeter of operating sash for reduced air infiltration
- » Low profile tilt releases
- » Frame width 3-1/4"
- » Metal reinforced meeting rail for extra strength in high wind areas
- » Slope sill for better water drainage
- » Fiberglass Charcoal-color insect screen in an aluminum frame to match the color of the window
- » R20-DP rated

- » Vinyl Color: Desert Sand
- » Grilles between the glass (GBG) 5/8" and 7/8" flat, 5/8" and 1" contoured - patterns include Colonial, Prairie Frame, Prairie Glass, or Cottage
- » Lodz-366 high performance glass
- » Nailing fin or block frame to accommodate all replacement installations
- » Decorative and privacy glass options include Obscure, Glue Chip, Rain, or Reed
- » Solar control glass in Bronze Tint or Grey Tint
- » Tempered glass available with all glazing options



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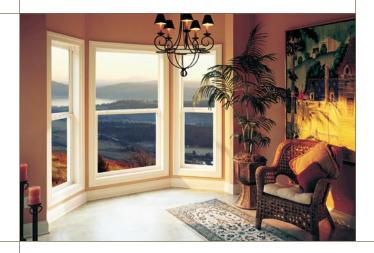
#### **BRAVO SINGLE-HUNG TILT SASH**





#### Overview

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 the bottom sash to tilt in to make cleaning easier. Bravo single-hung windows come standard with the WEN-Lock® for safe and secure automatic locking.



#### Standard Features

- » Vinyl Color: White
- » 3/4" overall double strength insulating glass with warm-edge spacer
- » Low-E glass with Argon gas
- » Frames assembled utilizing fusion-welded technology for greater strength and stability
- » Sash tilts for easy cleaning
- » Exclusive WEN-Lock® with visible latch indicator
- » Block and tackle balance system for quiet, effortless sash operation
- » Finpile weatherstrip applied along full perimeter of operating sash for reduced air infiltration
- » Frame width 2-7/8"
- » Metal reinforced meeting rail for extra strength in high wind areas
- » Fiberglass Charcoal-color insect screen in an aluminum frame to match the color of the window
- » R20-DP rated

- » Vinyl Color: Desert Sand
- » Grilles between the glass (GBG) 5/8" and 7/8" flat, 5/8" and 1" contoured - patterns include Colonial, Prairie Frame, Prairie Glass, or Cottage
- » Lodz-366 high performance glass
- » Nailing fin or block frame to accommodate all replacement installations
- » Decorative and privacy glass options include Obscure, Glue Chip, Rain, or Reed
- » Solar control glass in Bronze Tint or Grey Tint
- » Tempered glass available with all glazing options
- » Single action cam-style lock



#### **BRAVO SLIDER**





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#### Overview

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

#### Standard Features

- » Vinyl Color: White
- » 3/4" overall double strength insulating glass with warm-edge spacer
- » Low-E glass with Argon gas
- » Frames assembled utilizing fusion-welded technology for greater strength and stability
- » Exclusive WEN-Lock® with visible latch indicator
- » Finpile weatherstrip applied along full perimeter of operating sash for reduced air infiltration
- » Frame width 2-7/8"
- » Metal reinforced meeting rail for extra strength in high wind areas
- » Fiberglass Charcoal-color insect screen in an aluminum frame to match the color of the window
- » R20-DP rated

# **Optional Features**

- » Vinyl Color: Desert Sand
- » Grilles between the glass (GBG) 5/8" and 7/8" flat, 5/8" and 1" contoured - patterns include Colonial, Prairie Frame, Prairie Glass, or Cottage
- » Lodz-366 high performance glass
- » Nailing fin or block frame to accommodate all replacement installations
- » Decorative and privacy glass options include Obscure, Glue Chip, Rain, or Reed
- » Solar control glass in Bronze Tint or Grey Tint
- » Tempered glass available with all glazing options
- » Single action cam-style lock

BRAVO





# **BRAVO BAY/BOW**

#### Overview

Affordable luxury never looked so good. Bravo bay and bow windows brighten your home, create more living space, even provide a place for the cats to sleep. Because Bravo bay and bow windows are designed to retrofit into existing window openings, you can add a beautiful bay window to your home without expensive carpentry.

#### Standard Features

- » Vinyl Color: White
- » 3/4" overall double strength insulating glass with warm-edge spacer
- » Low-E glass with Argon gas
- » Windows installed in head and seat board
- » Cable suspension system for integrity, stability and safe and easy installation

- » Vinyl Color: Desert Sand
- » Bow Windows 3, 4 or 5 wide configurations
- » Bay Windows 30 or 45 degree units
- » Flankers available as single-hung, double-hung, or fixed windows
- » Grilles between the glass (GBG) 5/8" and 7/8" flat, 5/8" and 1" contoured - patterns include Colonial, Prairie Frame, Prairie Glass, or Cottage
- » LoĒ<sup>3</sup>-366 high performance glass
- » Decorative and privacy glass options include Obscure, Glue Chip, Rain, or Reed
- » Solar control glass in Bronze Tint or Grey Tint
- » Tempered glass available with all glazing options





# BRAVO FIXED, RADIUS AND GEOMETRIC





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#### Overview

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.

#### Standard Features

- » Vinyl Color: White
- » 3/4" overall double strength insulating glass with warm-edge spacer
- » Low-E glass with Argon gas
- » Frames assembled utilizing fusion-welded technology for greater strength and stability
- » Frame width 2-7/8"
- » R20-DP rated

- » Vinyl Color: Desert Sand
- » Grilles between the glass (GBG) 5/8" and 7/8" flat, 5/8" and 1" contoured - patterns include Colonial, Prairie Frame, Prairie Glass, or Cottage
- » Lodz-366 high performance glass
- » Nailing fin or block frame to accommodate all replacement installations
- » Decorative and privacy glass options include Obscure, Glue Chip, Rain, or Reed
- » Solar control glass in Bronze Tint or Grey Tint
- » Tempered glass available with all glazing options

# jeld-wen.com

### **BRAVO SLIDING PATIO DOORS**

The perfect complement for your patio or deck,

our Bravo sliding patio doors open by sliding along

a horizontal track. Available in left or right hand

configurations, they feature a contemporary handle

Overview

set with a heavy-duty lock.





# Standard features

- » Vinyl Color: White
- » 3/4" overall tempered insulating glass with warm-edge spacer
- » Low-E glass with Argon gas
- » Frames assembled utilizing fusion-welded technology for greater strength and stability
- » Frame width 4-1/2"
- » Fiberglass Charcoal-color insect screen in an aluminum frame to match the color of the window
- » Heavy-duty lock
- » Full perimeter weatherstrip
- » R20-DP rated

- » Vinyl Color: Desert Sand
- » Grilles between the glass (GBG) 5/8" and 7/8" flat, 5/8" and 1" contoured - patterns include Colonial, Prairie Frame, Prairie Glass, or Cottage
- » Lodz-366 high performance glass
- » Nailing fin or block frame to accommodate all replacement installations
- » Decorative and privacy glass options include Obscure, Glue Chip, Rain, or Reed
- » Keyed cylinder lock
- » Three panel configurations



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RAVO VINYL STRUCTURAL PERFORMANCE	AAMA/WDMA 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	48×78	3.00	< 0.2	
C: L II TIL C L	Single Unit w/ transom	R20 standard	36×92	3.00	< 0.2	
Single-Hung Tilt Sash	Triple	R20 standard	107.5x73.5	3.00	< 0.2	
	XOX	R50 optional	96×64.5	7.50	< 0.2	
	XO	R20 standard	72×72	3.00	< 0.1	
Horizontal Slider	XOX	R20 standard	120x60	3.00	< 0.1	
	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 optional	72×76.5	7.50	< 0.1	
Cl. I. D D	XO	R20 standard	95.5x95.5	3.00	< 0.2	
Sliding Patio Door	OXO	R20 standard	142x95.5	3.00	< 0.1	
Sidelight	0	R20 standard	48x96	3.00	< 0.1	
	Single Unit	R20 standard	48×77	3.00	0.2	
D 11 11 T1: C 1	Single Unit	R50 optional	42x57, 38x74	7.50	< 0.2	
Double-Hung Tilt Sash	Twin	R20 standard	95.5x83.5	3.00	< 0.3	
	Twin	R35 standard some sizes	86×40	5.25	< 0.3	



The classic colonial architecture of this home is enhanced by the Bravo collection double-hung windows with grilles between the glass. Versatile and flexible in their design and options, Bravo windows and patio doors can complement or amplify any style home.

## **CUSTOMER CARE**

Reliability for real life® is a promise we make to all customers, and one we take very seriously. We understand that deciding to replace your windows and doors is an important decision that is not made lightly. Your home is one of your most valuable possessions. You have high expectations of the products you choose to feature in it and the people and companies you select to work on it. That's real life; we understand that.

The JELD-WEN experience is designed to provide you with a team you can rely on through the entire window and door replacement process. From the time you recognize that you want to replace your windows and doors, through the life of our products, we are there to talk you through any questions you may have and address any issue that may arise.

Before you decide to buy, we have people ready and willing to help you, answering questions and explaining your options. By contacting us at 1-800-JELD-WEN or visiting us online at www.jeld-wen.com/replacement, our friendly and knowledgeable team can discuss your project with you, answer questions, send detailed information and direct you to one of our nearby partners to make sure you have all the information necessary to comfortably make a decision to work with JELD-WEN in your home.





We work with a reliable network of dealers and contractors to make sure your replacement window experience is straightforward and hassle free. They will be on hand to address any concerns you may have and to make sure all of your expectations are met.

After you have replaced your windows and doors, our network of skilled field technicians across the country are fully trained and able to service any of our products in the unlikely event that they need it. Throughout the life of your product you can reach JELD-WEN Customer Care by calling 1-888-JW-HELP-U. We also offer useful guides on how to care for and maintain your new investment.

As you can see, we are well prepared to deliver the experience you expect. All you have to concentrate on is your home and choosing the products that suit your style best. Rely on us to take care of the rest!

# JELDWEN.



# JELD-WEN VINYL WINDOW & PATIO DOOR WARRANTY Our warranty to you...

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 **January 1, 2009** 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 and maintenance instructions, installation instructions, and previous warranties, refer to **www.jeld-wen.com**.

#### What this warranty COVERS

Except as set forth in the Special Coverages section below, we warrant that if your JELD-WEN Product exhibits a defect in material or workmanship within the time periods from the date of manufacture as specified below, we will, at our option, repair, replace or refund the purchase price of the Product or component part.

# Owner-Occupied Single-Family Residence 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. Skilled labor<sup>3</sup> (where deemed necessary by us) to repair or replace any component is provided for as long as you own and occupy your residence.

#### 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 labor<sup>3</sup> (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 Warranty (Other than Owner-Occupied Single-Family Residence)

We warrant our Products for a period of **ten (10)** years from the date of manufacture. Skilled labor<sup>3</sup> (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.

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

The following special coverages include *free* replacement parts; skilled labor<sup>3</sup> 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 replacement glass and skilled labor<sup>3</sup> 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, Primo and Ipex 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.

Colored Exterior and Laminated Interior: We warrant that our factory-applied painted exterior color and factory-applied laminate interior finishes will not peel, blister, or flake for ten (10) years. Our applied exterior color will not exhibit excessive color change<sup>4</sup> for ten (10) years. Note: this coverage does not extend to discoloration, polish, surface damage, or alteration caused by the use of natural or chemical solvents or an environmental factor causing such damage.

#### **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).



#### What We Will Do

Upon receiving your notification, we will send out an acknowledgement, usually 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.

#### **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 reasonable 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.jeld-wen.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 Limited Warranty document 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. This Limited Warranty document gives you specific legal rights, and you may have other rights that vary from state/province to state/province.

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.

- <sup>1</sup> "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.
- <sup>2</sup> 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.
- <sup>3</sup> "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.
- <sup>4</sup> Fading or changing in color of the applied exterior color finish is not a defect unless it exceeds five (5) E units, calculated in accordance with ASTM D2244, paragraph 6.3. Color change shall be measured on an exposed colored surface that has been cleaned of soils, and the corresponding values measured on the original or unexposed colored surface. Fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements. If the above ASTM standards change, the standard in effect at the time of purchase applies. As an option to replacement, we may choose to refinish the product.
- $\ \ \, \ \ \,$  2009, JELD-WEN, inc. | JELD-WEN and ImpactGard are registered trademarks of JELD-WEN, inc., OREGON, USA.





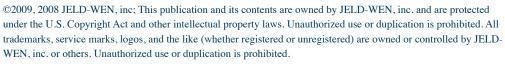
1.800.JELD-WEN | jeld-wen.com | info@jeld-wen.com | PO Box 1329, Klamath Falls, OR 97601







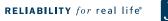
Official window, door and millwork provider of the PGA TOUR and Champions Tour



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









SB 2500

