



build **WITH EXPERTISE**





Welcome to the JELD-WEN renovation handbook

Whether you are a contractor or a consumer, this booklet is intended to walk you through the renovation process and to help you get a sense of some of the exciting products and renovation options that are out there. For more detailed information, view our latest interactive JELD-WEN product guides by visiting us at www.jeld-wen.com



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reasons to **RENOVATE**

Life is a source of inspiration

So you've decided to renovate. Now comes the fun part, choosing from an endless assortment of window and door styles and options.

Look at your windows. Now imagine them with energy-efficient, Low-E glass, reflecting the sun's harmful rays while letting rejuvenating natural light flood into your home. Perhaps coloured brickmould or decorative grilles would help your windows better fit your home's existing architectural profile.

Now look at your front entrance. Imagine an entry door with a decorative glass cut-out, framed by elegant sidelites and a rounded transom, or a grand and stately custom-wood entry door. These are just some of the many exciting renovation options that homeowners are using to boost their curb appeal, enhancing the profile and energy efficiency of their homes.

With JELD-WEN, the choice is yours.

Add Value while Curbing the Cost

Value Engineering

Value engineering is a way to help get the most value from your renovation without going over budget. The idea is to invest your reno dollars in high-priority areas of the home, while choosing economical options for low-priority sections.

An example of a high-priority area would be an entry door or main-story windows—anywhere on the home's exterior that is particularly noticeable. Low-priority areas could include side windows, or rear-facing windows and doors.

Instead of simply replacing all of your windows and doors, look for opportunities to renovate the high-priority areas with value-adding features such as coloured brickmould, grilles or decorative glass. The value-boost you get from focusing on these areas will be significant, plus you will stay on budget. Value Engineering is key if you are looking to increase your curb appeal.

Curb Appeal

Curb appeal refers to the way your home looks from the street view, or “curb.”

It is the perceived value of your home, based the way it is discerned by others.

Curb appeal boosters can range from large-scale renovations, such as installing custom windows or putting in a new entry door, to maintenance decisions like keeping a tidy lawn or hanging a decorative wreath on the front door. There are many ways to boost curb appeal, so get creative, and start planning your renovation.



let reason **BE YOUR GUIDE**

Top 10 reasons to choose JELD-WEN for your renovation



Lasting Quality

because life is too precious too be spent worrying about windows and doors.



Sustainable Solutions

because we believe in making the world a cleaner, greener place.



Performance Ready

because our windows and doors work for you.



Superior Craftsmanship

because our windows and doors are built to withstand the test of time.



Energy Efficient

because you deserve to pay less for utility costs.



Endless Selection

because our product line-up lets your imagination soar.



Comfort Engineered

because your home should be comfortable in any climate.



Inspired Beauty

because our windows and doors enhance the look of your home.



Leading Warranty

because we believe in our products.



Unrivalled Experience

because we've learned a thing or two in over 50 years.



windows of **OPPORTUNITY**

Thinking about renovating your windows? You've come to the right place.

JELD-WEN offers endless renovation options to ensure we can meet the vision you have for your home.

Here are some of the most common reasons homeowners decide to renovate their windows:

Performance

Drafts, cracks, air-leaks—whatever you want to call them, they make for an unpleasant environment within the home. Leaky older windows will take a toll on both comfort and your energy budget, and should be replaced.

Aesthetics

Sometimes renovations are necessary to help fulfill the architectural vision you have for your home. Adding additional window units can increase your home's sense of style while allowing more natural light into the home.

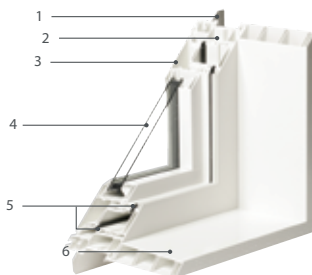
Value

Replacing your windows and doors with new, energy efficient models is an excellent way to increase the value of your home. New windows are one of the primary features shoppers in the home market look for.

Anatomy of a Window



- 1 Head**
The main horizontal member forming the top of the window frame.
- 2 Jamb**
The main vertical members forming the sides of the window frame.
- 3 Frame**
The enclosure in which window sash or door panels are mounted.
- 4 Simulated Divided Lites (SDL)**
Small bars placed on the exterior and interior of the glass that divide a window into smaller sections.
- 5 Nailing Flange**
Fin used to secure the window to an opening.
- 6 Sash**
A single assembly of stiles and rails into a frame for holding glass.
- 7 Pane**
A framed sheet of glass within a window or door.
- 8 Glazing**
The act or process of fitting with glass.
- 9 Sill**
The main horizontal member forming the bottom of the frame of the window.



- 1 Nail Fin**
- 2 Frame**
- 3 Sash**
- 4 IGU Insulated Glazing Unit**
- 5 Weather Stripping**
- 6 Interior Jamb Extension**

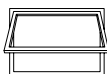
Window Styles for Your World

Choose a style that suits your home



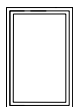
Casement

Hinged on the side and swings outward like a door.



Awning

Hinged along the top and swings outward.



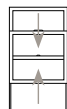
Fixed

Non-operational with matching sitelines to casement and awning windows.



Picture

Stationary, non-operational viewing window.



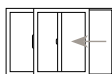
Double-Hung

Has two vertically sliding sashes.



Single-Hung

Has one movable bottom sash.



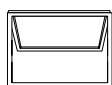
Slider

Features a horizontally sliding sash.



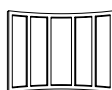
Radius/Geometric

Can be customized to just about any size and shape.



Fullvent

Ideal for basement windows.



Bow

A gradually angled series of windows designed to create space in a room.



Bay

An angled series of three windows that increase your inside space.

Get Efficient with Energy

Even though they don't use energy, windows and doors can be a major source of heat loss in the home. Due to the cost of heating in cooler climates, many Canadian homeowners are seeking out high-performance, energy-efficient windows and doors. New windows can help reduce the cost of heating a home while adding comfort and value. **JELD-WEN is a proud producer of energy-efficient windows, which include:**

- **Dualpane Glass**

Two panes of glass separated by an airspace commonly filled with argon gas.

- **Tripane Glass**

Three panes of glass separated by an airspace commonly filled with argon gas.

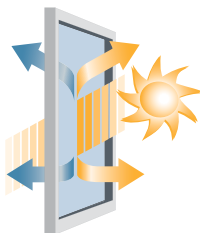
- **Low-E Glass**

A microscopic coating on the glass that filters out UV rays and increases thermal performance.

What is Low-E Glass?

Low-E glass helps keep your home warm in the winter and cool in the summer. During warmer months, Low-E repels the UV rays that cause excess heat, keeping your home cool and comfortable.

When it gets chilly, Low-E absorbs UV rays, keeping your home nice and warm even during the coldest part of the year. By comfort engineering each window to have the correct Low-E coating, you can ensure a comfortable home, year-round.



Choose Low-E
180 for passive
solar heat gain



Choose Low-E
272 to reduce
heat gain



Choose Low-E
366 for balanced
solar control and
high visibility

Comfort Engineering

Comfort engineering is the process of reviewing the Low-E glass options and operating styles for the windows in a home in order to regulate room temperature and create year-round comfort.

Comfort engineering is an excellent way to save money on heating and cooling costs. By choosing tripane glass and the correct Low-E coatings for each window, with respect to the direction they are facing and the room they are in, you can create comfortable room temperature in your home without having to over-rely on your furnace or air-conditioning.



Endless Options for Your World

There are many ways to personalize a window. Choose your window's style, the colour of the frame, the grille style and pattern; choose to dress your window with drapes or blinds, or decide to leave it bare; choose to have your window stand alone or be part of a glimmering wall of windows. These are all decisions that will affect the personality of your window and your home.

At JELD-WEN, we offer endless options so you never have to settle. We encourage homeowners to start with a vision of what inspires them, and use this inspiration as a starting point to their renovation journey.

Options to consider:

- **Window Styles**

Choose between casement, awning, picture and more.

- **Glass Options**

Choose tripane glass, Low-E glass, tinted, textured, decorative glass and more.

- **Colour**

Paint your world with your favourite palette.

- **Grilles**

Enjoy a variety of grille materials, styles and patterns.

- **Exterior options**

Finish your exterior with the colour and style of your choice.

- **Interior options**

Match your home's décor.

- **Material options**

Choose between vinyl, wood and hybrid products.



Installation Methods

Retrofit

Retrofitting involves replacing only the window's existing sash while leaving the window frame intact. This economical option does not disturb the existing exterior and interior trims.

Block Frame Renovation Installation

A block frame does not include a nail fin or brickmould. Installing a new window directly into an existing window frame allows minimal disturbance of exterior siding, interior trim, paint or wallpaper.

Full Window Replacement

This involves completely removing the existing window and replacing it with a new window. With this option you can easily change the function, performance and appearance of your window style.

Brickmould Installation

Brickmould trim allows you to install a completely new window into an existing opening without disrupting exterior siding, stucco or brickwork. The brickmould replicates the look of a traditional wooden brickmould, which adds character and charm to the home.

J-Channel Brickmould Installation

This style of brickmould allows you to install your siding directly into the side of the window.

Nail Fin Installation

The nail fin keeps the window securely in place and can be covered by almost any type of exterior finishing.

Block Frame Installation

Where neither a nail fin nor brickmould is being used, the window is the same depth as the wall and sealed with flexible caulking and interior trim.

* To learn more about installation methods, view our interactive product guides at www.jeld-wen.com



make a **BOLD ENTRANCE**

Thinking about renovating your entry door or interior doors? We offer a wide selection of door styles and additional design options. Whether you are looking to make a bold statement, or just need something sturdy and functional, we are equipped to provide.

Here are some of the most common reasons homeowners decide to renovate their doors:

Performance

Imagine if all the doors in your house had a big hole in the centre of the panel. It would be tough keeping your home insulated, right? Old, faulty, or worn down doors are the number one cause of drafts in the home. Renovating your doors is an excellent way to increase energy savings and comfort.

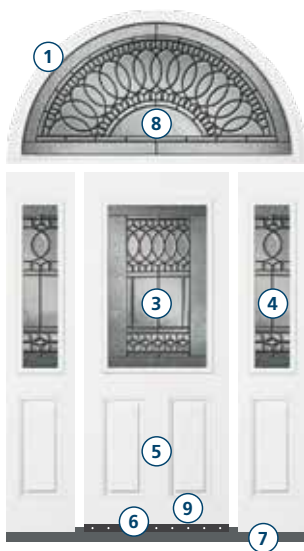
Aesthetics

Your entry door is the crowning feature of your home, especially if you dress it up with a decorative glass insert, sidelites and a transom, and choose a wood or fibreglass door panel from our custom collections. Interior doors also play a huge role in determining the aesthetic of each room in your home.

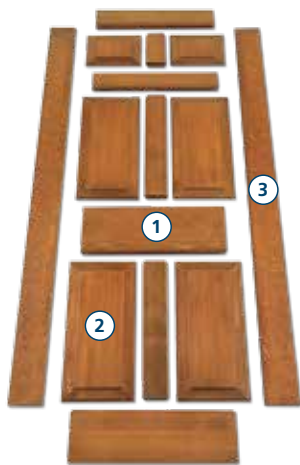
Value

Replacing your entry door is an excellent way to add value to your home. Not only is it one of the most noticeable features on your home's façade, it also can provide substantial energy savings. The same goes for the interior doors in each and every room within your home.

Anatomy of a Door



ENTRY DOOR



WOODEN DOOR SLAB

1 Door System

A complete door and frame assembly.

2 Frame

An assembly of structural parts used to hang a slab and fasten an entry system to a structure.

3 Lite

A framed piece of glass within a door slab, sidelite or transom.

4 Sidelite

Fixed, usually rectangular, decorative glass on either or both sides of a door system.

5 Slab

The operating or swinging part of a door system.

6 Sweep

Flexible seal material attached to the bottom of a door slab.

7 Threshold or Sill

Bottom component of a door system.

8 Transom

Decorative glass or window above a door system.

9 Rail

The horizontal pieces of a door slab.

1 Rails

The horizontal components that frame the panels and mullions.

2 Panels

Raised sections that are set into frames.

3 Stiles

Vertical components on either side of the door that frame the arrangement of panels and mullions.

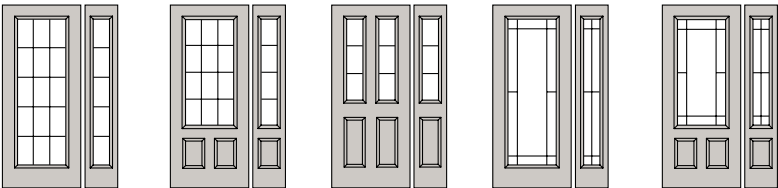
Entry Door Styles & Configurations



Single door Single door /
Single sidelite
(right or left side) Double door Double door / with
Rectangular transom Double door / with
Elliptical transom



Single door /
Double sidelites with
Rectangular transom Single door /
Double sidelites with
Elliptical transom Single door /
Double sidelites with
Segmental transom Single door /
Double sidelites with
Half Round transom



Full Lite
Rectangular
(3 x 5) 3/4 Lite
Rectangular
(3 x 4) 2-836 Lites
Rectangular
(1 x 3) Full Lite
Prairie 3/4 Lite
Prairie

*See our Entry Door product guide for additional configurations and insert options.

Entry Door— Before & After

Create an impressive front entry and let the excitement flow throughout your home with JELD-WEN entry door designs—a world of beautifully reliable possibilities.

BEFORE



AFTER



Performance Considerations

JELD-WEN doors are available in a wide variety of materials, so you can base your decision on climate, exposure, utility requirements and budget.

Increase the Perceived Value of Your Home

Replacing your entry door is an excellent way to add value to your home. Not only is it one of the most noticeable features on your home's façade, it also can provide substantial energy savings. Adding a glass door insert, decorative glass sidelites and transoms is an excellent way to boost your home's curb appeal.

inspiration FROM WITHIN

Interior doors are a source of privacy, comfort and sound reduction within the home. They provide openings to different sections of your living space while helping to define the personality of each room. Choose interior doors that meet the functional requirements of your home and make a statement about your personality.

Each room in your home has specific requirements. If you are looking for sound reduction, privacy or a luxurious decorative feature, we have a door style to satisfy your needs. Choose between All Panel, French (Glass Panel) and Bifold, then begin configuring.



All Panel

All Panel interior doors are available in wood or wood composites. They provide ultimate privacy and can include solid cores for sound control.



French (Glass Panel)

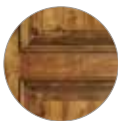
Interior doors are available with a myriad of glass panel sizes, shapes, textures and decorative patterns to provide obscure transparency or full visibility.



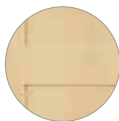
Bifold

Perfect for closets or tight spaces, bifold doors are hinged accordion-style and available in wood or wood composite materials.

We offer a variety of interior door lines, each with their own range of builds, styles and configuration options. Choose interior doors that not only meet the requirements of the room, but fulfill your inspired vision for your home.



Custom Wood*



Stile & Rail Wood



Executive Series Raised Moulding*



Moulded Wood Composite



Moulded Wood Composite

Wood Species

Available for French interior doors, panel doors, and bifold doors.



Maple*



Oak



Primed



Birch



Clear
Pine



Knotty
Pine

*May vary by region

Moulded Wood Composite Interior Door Styles

**Madison
Smooth**



**Cambridge
Smooth**



**Santa Fe
Smooth**



**Continental™
Smooth**



**Princeton Smooth /
Camden® Textured***



**Craftsman III™
Smooth**



**Avalon®
Textured**



**Coventry®
Smooth**



**Provincial®
Textured**



**Rockport®
Smooth**



**Colonist®
Smooth**



**Conmore®
Smooth**



**Colonist®
Textured**



**Monroe™
Smooth**



*See our Interior Door product guide for additional configurations, sizes and options.

Choose ProCore® the Quiet Door for increased sound reduction and safety

JELD-WEN ProCore doors offer a solid core moulded door that can provide peace and quiet in even the noisiest homes. Ideal for a bedroom or study where sound reduction is required, ProCore doors can help you concentrate and get a good night's rest. Having second thoughts about the drum kit you bought for your kids? Installing a ProCore door in a music room can greatly reduce volume levels. These doors are also reinforced to resist the dents and dings that come with a busy household. They are available with a 20-minute fire rating to help keep your family safe. Our ProCore door is available in any of our 13 moulded door styles.

8 Good Questions to ask your Contractor

Hiring a contractor for home renovations can be a significant emotional and financial investment. Often, you will meet with them for a consultation before going ahead with the job. This is a good opportunity to ask questions and get an impression of the person you are going to be hiring. Here are 8 good questions to ask your contractor.



1. Do you have references?

Even if a contractor was recommended to you by a friend or family member, you should still ask for references. A contractor should be happy to provide you with a list of former clients as well as contacts at building material suppliers. This will ensure that past customers have been happy with their work and that they don't have any significant outstanding debts.

2. Can I see work samples?

It's always a good idea to ask them to see photos of previous work they have completed. Depending on the size of your job, you may even want to visit a past site and inspect their work first hand. Some contractors will have blogs or websites that showcase their work as well.

Tip: don't forget to search for them online. Many contractors have websites and some are active on social media.

3. How many other jobs will you be working on?

It's normal for renovators to have several jobs on the go. However, if it seems like they are biting off more than they can chew, you might want to reconsider. Also be wary of contractors who seem to be lacking or desperate for work, especially during the busy summer season. This may suggest issues with past projects.

4. What do you specialize in?

It is a good idea to make sure the person you are going to hire has some relevant experience with the job you need doing. For example, if you are replacing your front windows, you may not want to hire a contractor who has only worked on patios.

5. Who will be doing the work?

Don't be afraid of subcontractors. Professionals know their strengths and weaknesses and should have a good sense of when to bring in a specialist. However, you also deserve to know who is going to be working at your house and when. You don't want a different team showing up each day to pick up where the last one left off.

6. What is the cost breakdown?

Before going ahead with any work, you should be clear on the budget. You'll want to know exactly what all building materials and supplies will cost, the cost of labour and profit margin. If a contractor wants to charge you a flat rate without any explanation, it might mean they are cutting corners or overcharging.

7. How will the payments work?

If a contractor wants you to pay for the whole job up front, run for the hills. Often, they will request a small down payment. This is standard. They may also need you to cover the cost of certain building supplies, depending on the job. The best strategy is to come up with an agreed-upon payment plan as part of the contract. This way, everyone is on the same page.

8. What is your schedule?

You might assume that contractors will be working normal hours, but this may not be the case. It is a good idea to find out exactly when they are going to be working. Renovations can be noisy and messy. You don't want to be falling asleep to the sounds of drilling and hammering. The neighbours won't be too impressed either. Find out their schedule and make sure they stick to it.



Planning Worksheet

Before making a final decision on the windows and doors you choose for your home, there are many things to be considered. We suggest you take a few moments to outline your preferences before consulting with your builder or home renovator.

Type of Installation

☐ Renovation ☐ New Build ☐ Other



To find a dealer
near you, visit
jeld-wen.com

Questions to Consider

What is your home's architectural style?

(e.g. traditional, contemporary, old world)

Which elements in your home should your windows or doors match?

(e.g. kitchen cabinets, millwork, moulding)

Do you have specific lifestyle or landscaping considerations?

(e.g. focus on recreational backyard, strong curb appeal, lot elevation and orientation)

Are there any "must-have" elements in the window or door you chose?

(e.g. energy efficiency, hardware, colour)

What are your climate considerations?

Windows

Preferred Window Styles

- ☐ Casement
- ☐ Awning
- ☐ Fixed
- ☐ Picture
- ☐ Double-Hung
- ☐ Single-Hung
- ☐ Slider
- ☐ Radius/Geometric
- ☐ Fullvent
- ☐ Bow
- ☐ Bay

Preferred Window Material

- ☐ AuraLast® Pine Wood
- ☐ Aluminum-Clad Wood
- ☐ Hybrid (Aluminum-Clad Vinyl)
- ☐ Vinyl
- ☐ Other: _____

Glass Options

- ☐ Low-E 180
- ☐ Low-E 272
- ☐ Low-E 366
- ☐ Tinted Glass
- ☐ Textured Glass
- ☐ Decorative Glass
- ☐ Tempered Glass
- ☐ Preserve Protective Film
- ☐ Neat Glass

Colour Selection:

Grille Options

- ☐ Simulated Divided Lites (SDL)
- ☐ Grilles Between Glass (GBG)
- ☐ Full Surround Grilles (FSG)
- ☐ False Mullions

Exterior Options

- ☐ Brickmould: _____
- ☐ Nailing Fin

Colour Selection:

Interior Options

- ☐ Vinyl Jamb Extension
- ☐ Stain Grade Wood Jamb Extension
- ☐ Primed Wood Jamb Extension
- ☐ U-Channel

Colour Selection:

Hardware Finish Selection:

Patio Doors

Preferred Patio Door Styles

- ☐ Folding
- ☐ Swinging
- ☐ Sliding

Preferred Patio Door Material

- ☐ AuraLast® Pine Wood
- ☐ Aluminum-Clad Wood
- ☐ All-Vinyl
- ☐ Other: _____

Entry Doors

Preferred Entry Door Configuration

- ☐ Single Door
- ☐ Single Door with sidelite(s)
- ☐ Single Door with transom
- ☐ Single Door with sidelite(s) and transom
- ☐ Double Door
- ☐ Double Door with transom

Preferred Entry Door Material

- ☐ IWP® Custom Wood
- ☐ IWP® Aurora® Custom Fibreglass
- ☐ Contours Steel & Fibreglass
- ☐ Architectural Fibreglass*
- ☐ Executive Raised Panel*

*Available in select regions.

Visit jeld-wen.com to see which materials are available in your province.

Preferred Entry Door Configuration

- ☐ External Grilles for Doors
- ☐ External Grilles for Sidelites
- ☐ Grilles Between Glass (GBG) for Doors
- ☐ Grilles Between Glass (GBG) for Sidelites
- ☐ Clear Glass Inserts for Doors
- ☐ Clear Glass Inserts for Sidelites
- ☐ Patterned Glass Inserts for Doors
- ☐ Patterned Glass Inserts for Sidelites

Notes

Interior Doors

Preferred Interior Door Styles

- ☐ All Panel
- ☐ French (Glass Panel)
- ☐ Bifold

Preferred Interior Door Material

- ☐ Stile & Rail Wood
- ☐ Executive Series Raised Moulding
- ☐ Moulded Wood Composite
- ☐ Flush Wood Composite
- ☐ Custom Wood*

*Available in select regions.
Visit jeld-wen.com to see which materials are available in your province.

Glass Options:

Moulded Wood Composite Door Construction

- ☐ Hollow Core
- ☐ Solid Particleboard Core (With ProCore®)
- ☐ Solid Mineral Core

Additional Resources

Here are some additional digital resources that we have created to help ensure your renovation is a success.



MyJW App

The MyJW App is one of our most innovative tools to date. Take the fun and engaging “What’s your Window Personality” quiz and discover which JELD-WEN products truly suit your style. This app can be accessed from numerous devices and also features a stunning photo gallery, find-a-dealer tool and a helpful project planner sheet. Go to www.myjwapp.ca and get down to business.



Interactive Brochures

Our interactive brochures are ideal for those who would rather browse our products on a tablet, computer or mobile device. Featuring the same content as our product guides and featurettes, these fully-digital versions allow you to skip to a page with the click of a button, open links, enlarge images and play embedded videos.



Web & Social Media

The world is changing, and we want to be at the head of the pack. In order to stay current, we’ve developed an active presence on social media, including Facebook, Twitter, Google+, Instagram, Pinterest and Wordpress. Our social media channels also function as a forum where you can ask questions and receive customer service. You can also find us on the web at www.jeld-wen.com

Glossary

Argon Gas

A colourless inert gas that is injected in the airspace of an insulating glass unit to improve energy efficiency.

Bore

The machining on a door panel to accommodate a lockset or deadbolt.

Brickmould

A form of exterior casing for windows and doors. It serves as a locator point for installation for the unit and provides a boundary for brick or other siding material on the face of the buildings.

Cross Rail

Centre-most horizontal member.

Door Skin

The outer facing of a door's surface.

Egress

The National Building Code of Canada 9.9.10.1 Egress Windows or Doors for Bedrooms refers to the minimum allowable size of windows and doors that can be used in a bedroom.

Energy Rating (ER)

A scale rating the comparative performance of windows based on three factors: 1) solar heat gains; 2) heat loss through frames, spacer and glass; and 3) air leakage heat losses.

Jamb Size

The depth of the door frame which most often matches the thickness of the wall in which the door is installed.

Lite (Light)

A pane of glass within a window, often simulated by adding grilles or Simulated Divided Lites.

Mulled Unit (Combination Unit)

Two or more window units structurally joined together.

Mullion

The joint where two or more window units are structurally joined together.

NAFS (North American Fenestration Standard)

Harmonized Canadian and American fenestration standards which offers a more refined performance testing, rating and labeling system.

Nail Fin

A metal or plastic fin used to secure windows or doors to an opening.

OBM Brickmould Measurement

The outside measurement of the window's brickmould.

OSM Frame Measurement

The outside measurement of the window frame.

Panel

The component of the slab filling the spaces between the stiles and rails.

Rails

The cross or horizontal members of the framework of a sash, door or other panel assembly.

R-Value

Measures resistance of heat transfer, or insulation properties. The higher the R-Value, the better the insulating effect.

Retrofit

The process of installing a new window or window sash into an existing window frame.

Rough Opening

The opening in the wall frame that the door fits into.

Sill

The horizontal frame member at the bottom of a window or door assembly.

Slab

The operating part of the door assembly that swings open and closed inside a frame.

Slash

The process of installing a new window or window sash into an existing window frame.

Solid Core

The term used to refer to a door panel that is not hollow.

Stiles

The upright or vertical outside pieces of the framework of a sash, door or other panel assembly.

Strike Jamb

The side jamb that contains the latch strike to hold the slab closed.

Transom

A stationary window above a window or door.

U-Factor (U-Value)

U-Factor (imperial) or U-Value (metric) indicates the rate of heat transfer during winter nighttime conditions. The lower the U-Value, the slower the heat transfer, resulting in a more comfortable living space as well as energy savings.



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The JELD-WEN® website is your ultimate resource for learning about our reliable windows and doors. It has all the product information and design advice you need.

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