





BuffelenDoor.com



THE BUFFELEN WOODWORKING STORY: Quality doors since 1913

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The people at Buffelen Woodworking have been making doors to fit any opening since 1913. We are a manufacturing company built on traditional values that is reinventing itself everyday with state of the art equipment and capabilities to serve the marketplace for the next 100 years.

The craftsmanship required to build quality doors that last for generations hasn't changed. It still requires skill to craft joinery that fits precisely and creates the kind of strength that allows them to last for decades. The tools have changed; the joiner's planes have been replaced with modern, multifunction CNC tooling that allows us to precisely and repeatedly create components that fit right the first time, whether we're creating a one-off custom or a complete run of doors for a complex new development. The craftsman's touch also remains. All Buffelen doors are hand assembled, sanded and finished to ensure that every door leaving our plant fully represents the standard of quality we've established throughout our over 100-year history.

In the past, we maintained a stock of every door we make. Today we build it faster, better and with more precision than ever before. We build exactly what you want, to order. We'll work with you every step of the way to build a superior product. Then we'll deliver. In weeks. Not months.

Success today depends on having the flexibility to compete. Gone are the days when you can build one door one day and another the next day. Modern tooling and equipment allows us to build them all at the same time. We are capable of building seven different profiles simultaneously—and have 17 different species on site at all times.

But you can rest assured that every Buffelen door created today carries with it the legacy of quality and craftsmanship we've built with every door.















BUFFELEN TECHNOLOGY







TRADITION BUILDS ON THE PAST, TECHNOLOGY BUILDS ON THE FUTURE.

Buffelen Woodworking occupies the same location in Tacoma, Washington where we started in 1913. Some of the original buildings are still in use, and all of the craftsmanship and dedication to quality that helped build our reputation remain.

But that's where the similarity ends. Today those buildings house a state-of-the-art manufacturing plant capable of producing seven different profiles simultaneously, using virtually any species of wood (we stock 17 species). And every door is built with the kind of precision yesterday's craftsman worked a lifetime to achieve. Laser measurement, CAD engineering, and CNC controlled machinery combine with the joiner's touch to craft doors that fit right the first time and are engineered to last several lifetimes.





NEW TECHNOLOGY ENABLES NEW PRODUCTS.

Engineered Wood vs. Solid Wood

Is a solid wood door better? Sometimes. It depends on several factors: the wood - every tree is different, the environment, and every craftsman brings his own skill set to the job. Engineered wood products are designed to provide greater strength, flexibility and dimensional stability than ever before. Veneers used on our doors are resawn on site, to order. Core materials are selected to achieve maximum strength and dependability for a lifetime of use. All that technology allows us to build more doors more precisely than ever before. It also allows the customer more options than ever before. After all, isn't that what it's all about—meeting the demands of tomorrow's marketplace by combining the efficiencies of technology with the traditions built on over 100 years of quality and craftsmanship.

No other wood door manufacturer can make that statement—no other wood door manufacturer has the experience to back it up.

Impact-Rated Doors

The result of precision tooling is better fitting parts for more reliable, longer-lasting doors that provide additional protection. Designed and engineered to better withstand nature's most destructive powers, Buffelen's Impact-Rated doors are tested to achieve the kind of protection required by the most stringent coastal regulations.

For more information on Buffelen's Impact-Rated products, see pages 84-89.

MDF Doors

MDF doors designed to match your wood doors—when paint is the preferred finish.

Buffelen's interior MDF doors are built with all the care and craftsmanship as our wood doors. The design and layout can be matched to many of our wood door designs. With solid wood inserts to support hardware, they too are built to last for decades, just like our wood doors.

For more information on Buffelen's interior MDF products, see pages 70-83.

ORDERING THE PERFECT DOOR

Ordering your new Buffelen doors is pretty simple—whether its an entry door or interior doors. Look through the catalog and find the door that suits your style. Then tell us the sizes and options you'd like. We'll take care of the rest. Because every Buffelen door is made to order, your doors will be made just for you. You get exactly what you want.

Here's a guide to getting exactly what you want:

CHOOSE THE DOOR DESIGN THAT WORKS WITH YOUR HOME

Choose a door from our catalog, your architect's design, or one hand drawn from your own imagination.

CHOOSE THE SIZE THAT FITS Specify

the width, height, and thickness of the door. At Buffelen, our standard heights are 6'8", 7, and 8' tall. Our widths start at 1'6" and go up in 2" increments.

Depending on the design, most doors can be manufactured up to 4'10" x 10'0." Some door designs can be manufactured up to 6' x 12'. Standard thicknesses are 1-3/8". 1-3/4". and 2-1/4"

CHOOSE THE SPECIES Choose almost any species to match your home's cabinets and woodwork. We regularly stock 17 species of wood. See page 8 for details.

- PANEL STYLE Flat, raised, bladderpress, or split-proof panels. Beaded or V-grooved panels are also options. See the "Anatomy of a Buffelen Door" on page 99 for additional structure details.
- STICKING PROFILES At Buffelen, we believe every detail in your home should match-right down to the sticking on your doors. With dozens of profiles to choose from, there's a millwork profile to compliment any décor. See pages 94-95.

CORE TYPE Our standard core is solid finger jointed lumber because of its strength and stability in demanding environments. Modern engineered wood cores like LVL (laminated veneer

lumber) can also be specified.

Finger Jointed I VI

- TYPE OF GLASS There are over 20 styles of glass from clear to fully obscured treatments to choose from. True divided lites (TDL) and simulated divided lites (SDL) constructions available. See pages 96-97.
- **OTHER OPTIONS** Matching sidelights and transoms. Add details—a dentil shelf, speakeasy grille, or clavos to suit your style.

Pre-hung, along with jambs, astragals, and brick mould See pages 92-93 for details.

Primed Doors See page 91 for details.

Impact-Rated Doors See pages 84-89.

Fire-Rated Doors-20, 45, 60, or 90 Minute See pages 52-53.

MDF Doors See pages 70-83.

Multi-Point Locking Systems See page 93.

WHOLE HOUSE PACKAGES

When ordering all the doors for new construction or complete remodels, Buffelen offers the complete package exteriors, interiors, bifolds, sidelights and transoms. Jambs. brick moulds. astragals and sills are available to match in the same species.

Buffelen Door Series: Which one best fits your needs?

The 3000, 4000, 5000, 6000 & 8000 Series come standard with 5-3/8" stiles.

2000 SERIES

- 4-1/2" stiles
- 3/4" hip raised panel*
- · Single-glazed glass

3000 SERIES

- 1-3/8" hip raised panel*
- · Applied raised moulding,

4000 SERIES

- 1-3/8" hip raised panel*
- Ovolo sticking
- Insulated glass

5000 SERIES

- 1-3/8" hip raised panel*
- · Beveled sticking
- · Insulated glass

6000 SERIES

- All glass, no panels
- Ovolo sticking
- 5/8" Insulated glass

8000 SERIES

• 1-3/8" hip raised panel*

7000 SERIES / BWC

This series is comprised of unique designs with various components. Consult your dealer for the specifications of your 7000 Series / BWC door design.



- one side

*See pages 92-93 for details.

Beveled Sticking





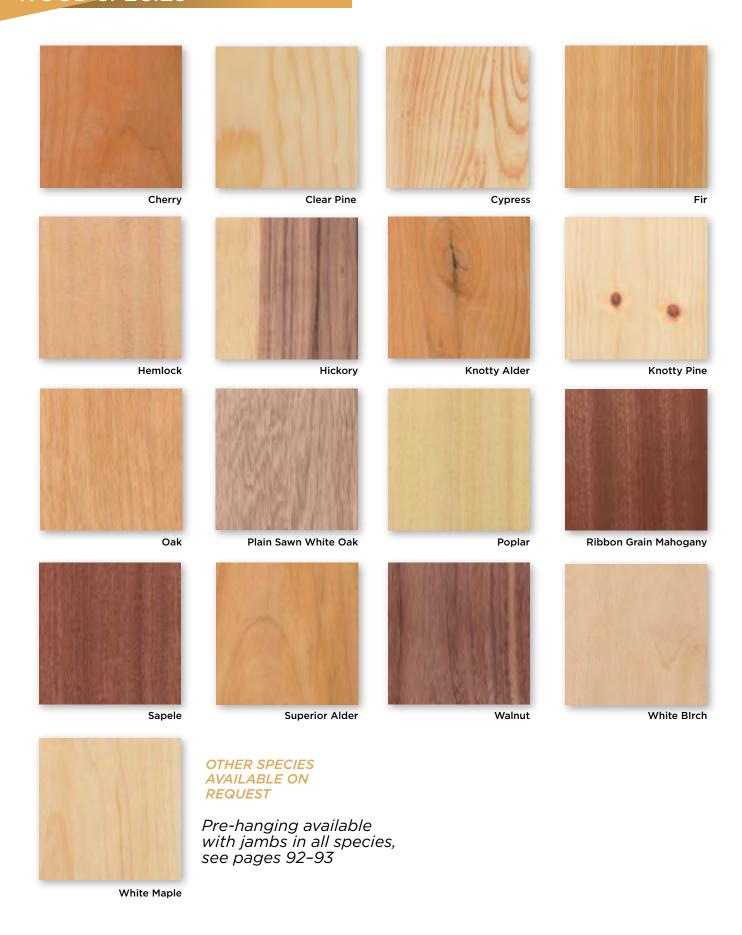




HOW TO ORDER A DOOR



WOOD SPECIES





nearly every door we make can be built to different specifications, different profiles, without slowing down production.

We offer a full package for custom homes: the Individual House Package—exteriors, interiors, bifolds, sidelights and transoms, all from a single supplier. Custom jambs, brick moulds, astragals and sills are available to match in the same species.



THE POSSIBILITIES ARE LIMITED ONLY BY YOUR IMAGINATION

Often, it starts with a quick sketch from the architect's hand, or an idea that springs to life from the cocktail napkin where it was born. Either way, it is a quality door that's made to order.

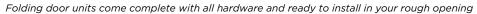
Nothing is out of bounds. Shapes: we can do curves, ellipticals, rounds, arches, virtually any shape you can put on paper. Panels can be v-grooved, planked or beaded. You can choose from any species that matches your décor, even mix species if that's your dream. We stock 17 different species and can custom resaw virtually any species to your order. After all, that's the definition of a custom door.

So let's talk. The very word "custom" means that it may not have been done before. Show us your sketches; get us your specs, tell us what species or even combination of species matches your decor. Curved, elliptical, round... we can make your wildest dreams come true. For architects, designers, builders and distributors, it's the ultimate in flexibility. Made-to-order, quality built doors delivered on time, on budget, every time.





Buffelen Exterior Folding Door Unit. Custom 3'3" x 9'1" 4125s, 2-1/4" thick with 18 TDLs and a 1" Bladder Press Panel.















1515s with custom transoms





Double Door Unit with 3'0" x 9'11" Mission Offset 5001s with SDL bars and clear glass

COMMERCIAL, INSTITUTIONAL AND SPECIALTY RESIDENTIAL **DOOR SYSTEMS**

Buffelen designs and builds custom door systems that help connect interior spaces with the great outdoors, allows easy entry yet retains full security. Eliminating the barriers expands interior spaces, provides beautiful natural light and allows both fresh air and the ambiance of your environment to circulate freely. Working with architects, designers, engineers, builders and homeowners, we provide a turn-key product complete with all the millwork in whatever species fits your plan.

Robust, precision hardware is built into every system ensuring easy, trouble-free operation and, for commercial and institutional settings, long service life that withstands frequent, punishing use and repeated cycles. Precision CNC machining integrates the hardware into the components for a flawless installation. Each system is custom made, fully built, assembled and tested in our plant, then packaged for shipping to your site for final assembly.

If you've got a project that calls for erasing the boundaries and opening up the space—give us a call. We'd be pleased to discuss the possibilities.







HERITAGE ENTRY DOORS

Classic styles that go all the way back to our roots — over 100 years, updated to take advantage of today's technologies. With our Heritage series, you've got the freedom to choose the design, the species and the details to fit your home and your lifestyle.

HERITAGE DOORS 16-31 CRAFTSMAN DOORS 32-33

ENTRY DOORS

When it comes to Buffelen entry doors, the options are endless. Start here: with a presentation of the largest selection of entry doors in our 100-year history. As long as your choice is Buffelen, you can't go wrong. An entry door is the first impression that many people have of you. A wood door from Buffelen can make a lasting impression.

CONTEMPORARY DOORS 34-37
ENTRY DOORS 38-43
SIDELIGHTS & TRANSOMS 44

LOUVER

With the privacy of solid doors, Buffelen's new take on the Plantation shutter door allows cooling breezes to circulate freely throughout your home. The look is classically tropical, the technology is all new. Choose between Plantation slats that keep the air circulating, or Chevron slats that provide the same look with the security of solid panel construction. Operable louvers are also available.

LOUVER DOORS 54-57







INTERIOR

There's nothing like a quality wood Buffelen stile and rail door for your interior—to create a sense of safety, warmth and comfort. How can you tell the difference between a quality wood door and one that's not? It's the weight, the feel and the sound of the door when you close it. If it doesn't feel safe and sound, chances are you won't either.

58-61	PANEL DOORS
62-67	FRENCH DOORS
68-69	BI-FOLD DOORS

MDF

Like every other door we manufacture, Buffelen's new router-carved MDF door series has a lot going for it. They are made with laminated medium density MDF, an engineered board that has excellent properties for making doors. They offer superior roomto-room sound proofing, will never check, warp, or crack, and have a smooth surface that's perfect for painting.

MDF DOORS.... 70-83

IMPACT-RATED

Building a door to withstand hurricane force winds and flying debris is one thing. Our state-ofthe-art CAD design capabilities, CNC manufacturing system and team of expert craftsmen combine to produce impact-rated doors, sidelights, and transoms with the warmth and charm of beautifully designed, custom built, hand assembled joinery.

IMPACT-RATED DOORS.....84-89





BWC737L Shown pre-hung, see page 91 for details Also available as double doors BWC737L / BWC737R

Heritage Entry Doors

We call this our Heritage Series because these entry doors go back to our roots—over 100 years of experience in quality craftsmanship. But history is only half the story. Today state-of-the-art technology, precision engineering and freedom of choice in design, species and specs are the other half of Buffelen's Heritage Series. It's an unbeatable combination.



Buffelen's optional bladder press panel is available as shown.



Fairfield 7022 (Zinc) Sidelight 7322 Shown in Maple

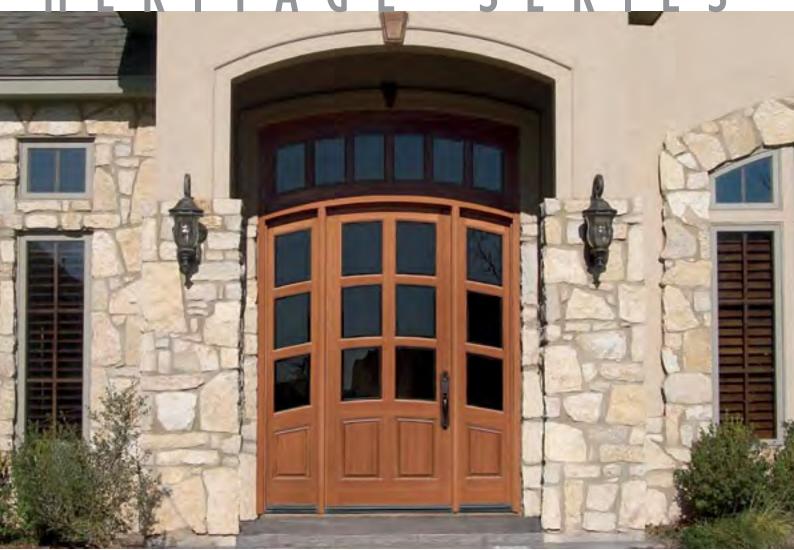


BWC720 (Zinc) Shown in Cherry



Fairmont 7021

S E R L E S



MODEL SHOWN: Custom 4644 with custom transom



Shown in Maple with Celebrity leaded glass (Zinc)



BWC708L

BWC708R Shown in Maple with Walnut overlay & Celebrity leaded glass (Zinc)



BWC716L



BWC716R

Shown in Red Oak with Beveled IG







Madison 7005-8* (Patina) Sidelight 7315-8*

Madison **7005** (Patina) Sidelight **7315**







Jameson **I 7044** (Zinc) Sidelight **7344 7044-8*** Sidelight **7344-8***



Jameson I**I 7053** (Zinc) Sidelight **7353**

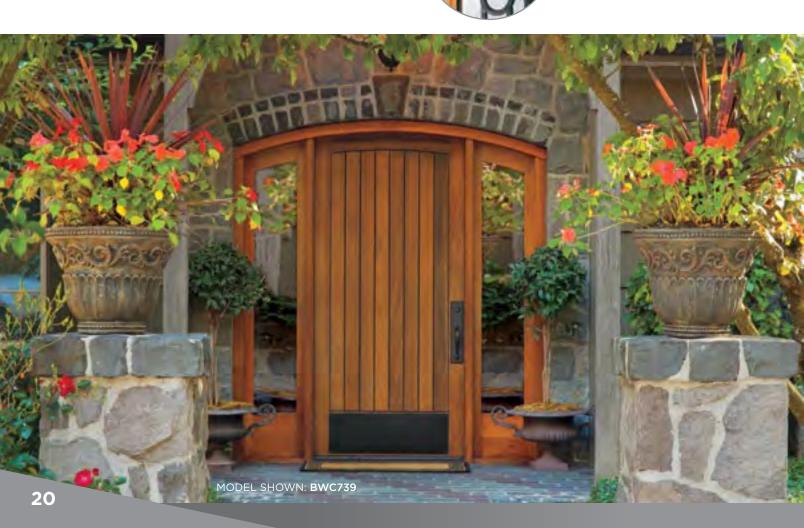
ENTRY DOORS





Laramie 7045R













BWC712 Note: 1-3/4" black clavos and speakeasy grille sold separately.



ENTRY DOORS







Riesling **7152** (Patina) Sidelight **7369**



Regina **7064** (All Panel) Optional Carved Lock Rail available, must specify



7077 Shown in Ribbon Mahogany



Sidelight 7356

Sidelight 7357

7057 (Patina Insert)

Shown with beveled glass and Standard Shelves



Patina caming



BWC718 Flemish Glass Shown with Flemish Glass Standard Shelf (2021)



BWC **729** Shown in Alder with clear IG



7103





MODEL SHOWN: 7025 with 7204 transom



Olympic **7006** (Beveled Glass) Sidelight **7306**



Cascade **7007** (Beveled Glass) Sidelight **7307**



Bainbridge **7001** (Beveled Glass) Sidelight **7301**



Brookshire 7025 (Patina)



Manchester **7049** (Patina) Sidelight **7349**



Patina caming

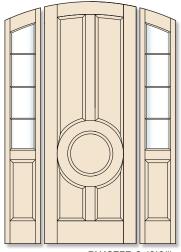


Canterbury **7024** (Patina) Sidelight **7324** Transom **7204**

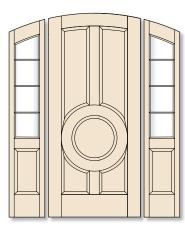


MODEL SHOWN: 4130 with 4705 sidelight and custom transom

ENTRY DOORS



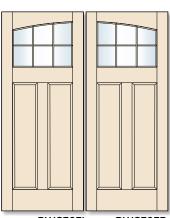
BWC733-8 (8'0") BWC733L-8 S/L BWC733R-8 S/L



BWC733 (6'8") BWC733L S/L BWC733R S/L



7177



BWC707L BWC707R



Rochelle Maxim **7071** (Zinc) Sidelight **7371**



Nouveau **7087** Sidelight **7387**



Moonglo Serenade **7043** (Zinc) Sidelight **7343**



Moonglo 7041 (Patina)



Sherwood **7091** (Patina) Sidelight **7391**

Inserts Finishing touches



Cambridge 7130 Shown with optional carved lock rail, must specify.













4108





Buffco VIII 7120

Note: All Thermal glass inserts are interchangeable between Buffco VIII and Cambridge.







Starlight 7415

Bristol 7402



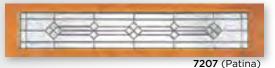




Reverie 7405

Transoms

Available with raised moulding upon request. Mix and match any door with any of these six transoms to achieve the look and feel you want.







7204 (Patina)

7205 (Zinc)





BWC725







Friday Harbor **L105** L504 sidelights & L901 Transom Shown with Dentil Shelf (2011)

These doors incorporate beveled and textured glasses with zinc caming in classic designs that provide privacy while allowing light to shine through. The results are brightened entryway interiors during the day and warm, welcoming porches by night.



Buffelen's optional bladder press panel is available as shown.



Renaissance Bay **L107** Elliptical Transom **L902** Sidelight **L500**



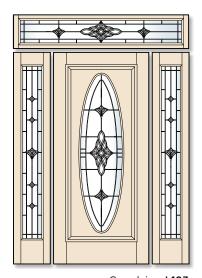
Crystal Cove-C L109R Shown in Cherry



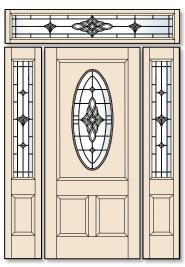
Medina L100 Shown in Knotty Alder



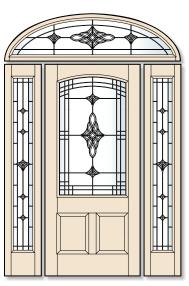
MODEL SHOWN: L100 with L500 sidelight and custom transom



Grandview **L103** Sidelight **L500** Transom **L901** (no raised moulding)



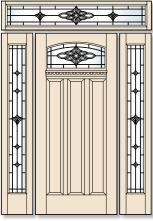
Harborview **L101** Sidelight **L501** Transom L900 (with raised moulding)



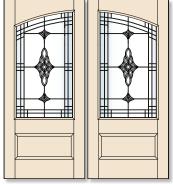
Medina **L100** Sidelight **L500** Transom **L902**



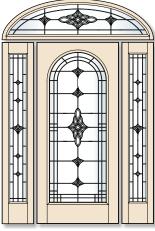
Canterwood **L106** Sidelight **L506** Transom **L901**



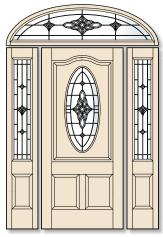
Friday Harbor **L105** Sidelight **L504** Transom **L901**



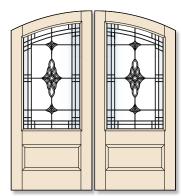
L108L Crystal Cove L108R



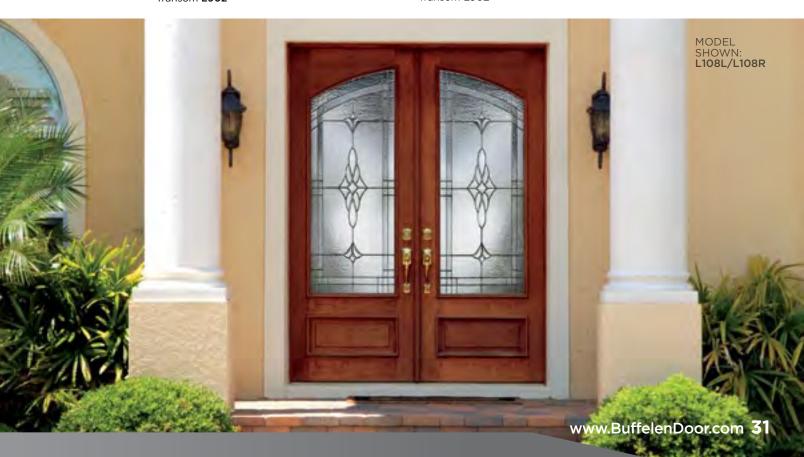
Renaissance Bay **L107** Sidelight **L500** Transom **L902**



Northwind **L102** Sidelight **L501** Transom **L902**



L109L Crystal Cove-C L109R







7531 (Zinc) Shown with 7451 insert **Sidelight 7502** Shown with 7455 insert



7512 (Patina) Shown with 7462 insert Transom 7598 Shown with 7467 insert



7523 (Zinc) *Shown with 7453 insert* **Sidelight 7501** *Shown with 7456 insert* **Transom 7599** *Shown with 7458 insert*

7501 Glass

Sidelight Glass Options

7502 Glass

7455 (Zinc)

7465 (Patina)

Transom Glass Options

7598 Transom Options





7599 Transom Options

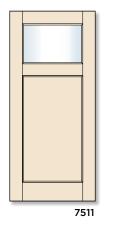


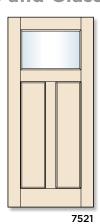
Transom 7458 (Zinc)

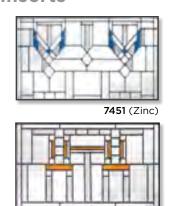


Transom 7468 (Patina)

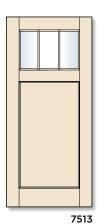
Panel Doors and Glass inserts

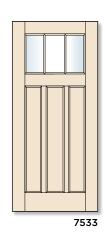




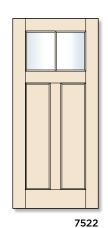


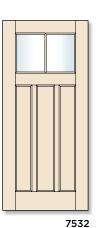
7461 (Patina)

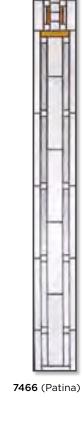












7456 (Zinc)

7462 (Patina)





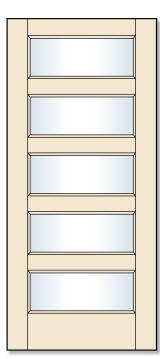
4055 NG Shown in Rift White Oak with Clear IG

Contemporary Entry Doors Simply beautiful

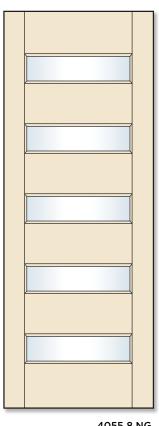
Sometimes sleek and spare, contemporary styling always strives for cool and hip. Buffelen's contemporary door styles artfully blend the warmth and comfort of all wood doors with the style and details that define the contemporary space. Add glass for the space expanding views or choose from several species of rich wood veneers to counterpoint the wideopen spaces often found in modern home design. Either way, Buffelen's quality construction merged with contemporary design will bring striking good looks along with safety and security to any modern dwelling.



4054 G Shown in Fir with Clear IG



4055 G



4055 8 NG



MODEL SHOWN: 4055 G



4502 Shown in Mahogany with white laminated IG



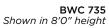
Shown 8'0" in Mahogany with white laminated IG



4054 8G Shown 8'0" in Walnut with white laminated IG

CONTEMPORARY DOORS

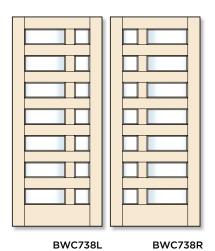


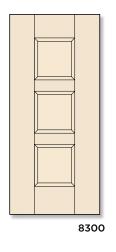


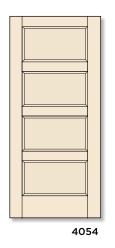


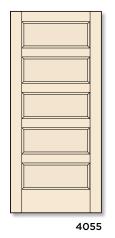
BWC730 Shown in White Oak

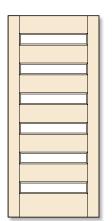
Looking for a style not shown? Buffelen builds custom doors see pages 9-11 for more information.



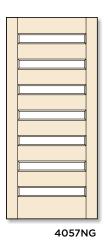


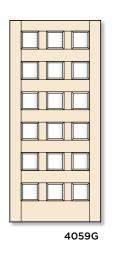






4056NG











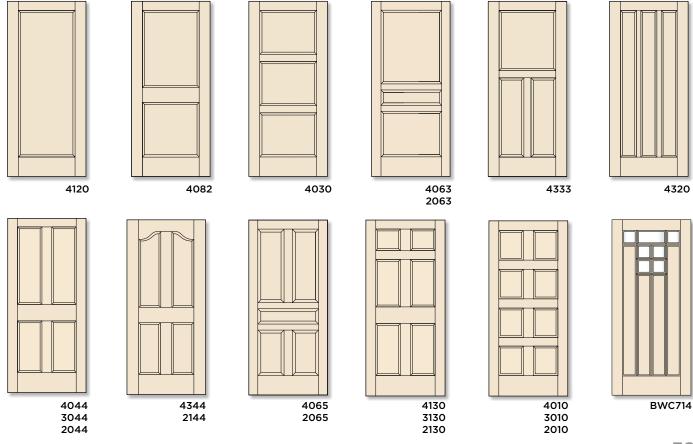
BWC711 Shown in Fir

Entry Doors

Simply grand entrances

When it comes to Buffelen entry doors, the options are endless. Start here: with a presentation of the largest selection of entry doors in our over 100-year history. As long as your choice is Buffelen, you can't go wrong. An entry door is the first impression that many people have of you. A wood door from Buffelen can make a lasting impression.

BUFFELEN DOOR SERIES INFORMATION: See page 6 for details on our 2000, 3000, 4000, 5000, 6000, 7000, and 8000 Series doors.







2020

2132





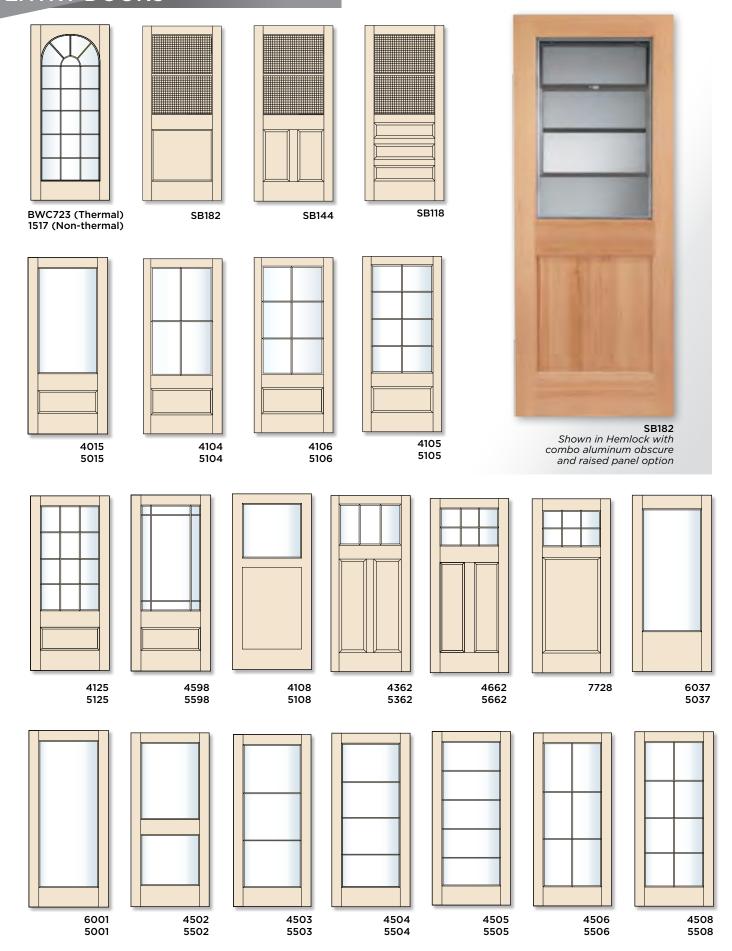


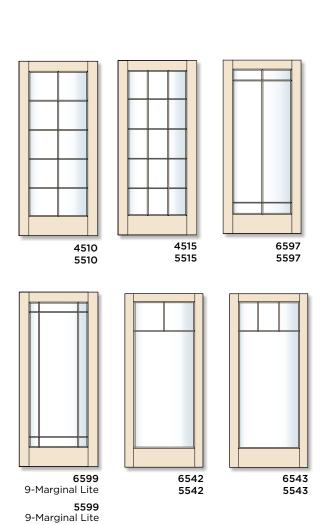
1-3/8" Hip raise beaded panel detail.



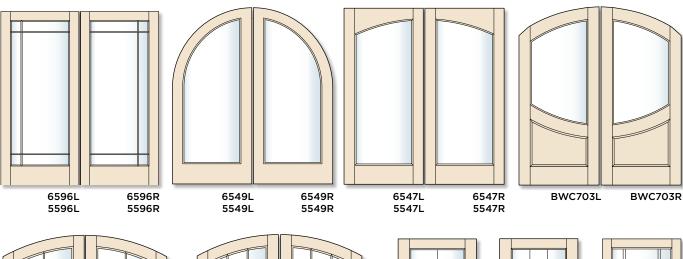


ENTRY DOORS

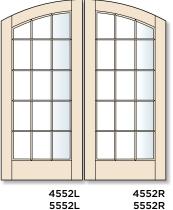


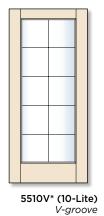


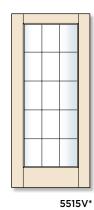


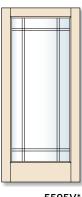






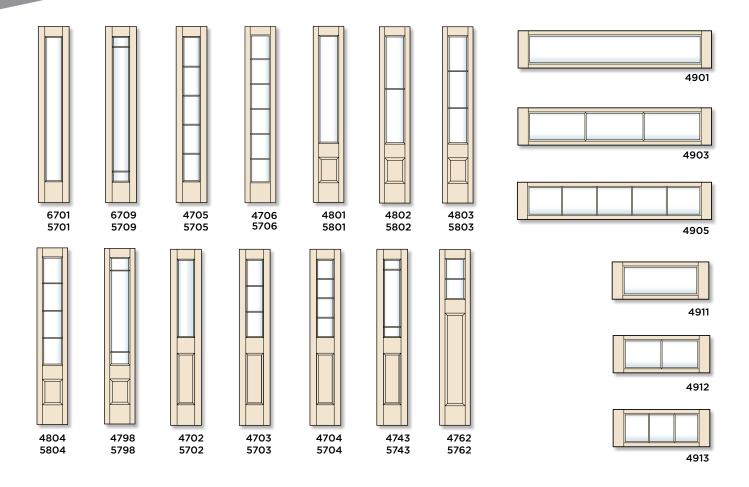






5595V* 9-Marginal Lite Double V-groove

SIDELIGHTS & TRANSOMS





The beauty of stateof-the-art machinery is seen in perfectly fitting components that insure a door that will stand up to the elements and the abuse of daily use for generations. It's how we've built our doors since the plant opened over a century ago, and what the Buffelen name stands for today.





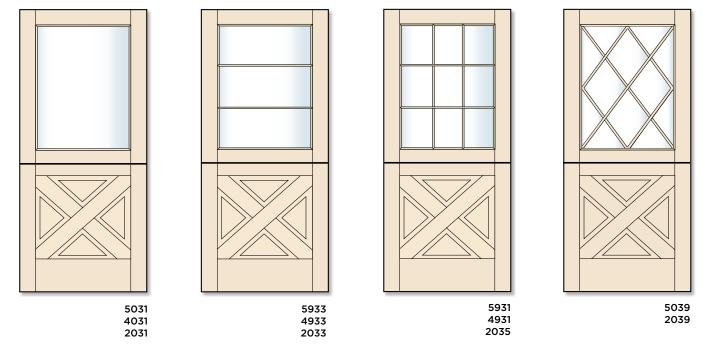
Ovolo Profile 4000 Series



Thermal Doors with an energy conscience.

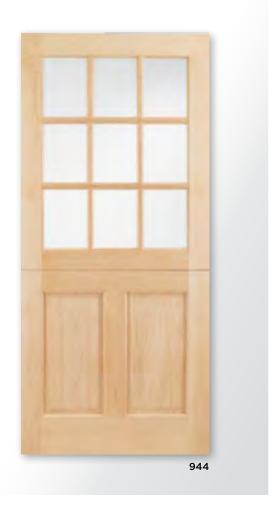
Buffelen wood doors are natural insulators as well as natural beauties. Our thermal glazed doors manufactured with optional low-E coating are designed to allow for high solar gain, moderate solar gain or low solar gain, without affecting visibility. Then consider the glass component itself: double pane insulated or noninsulated safety glass, in solar gray or solar bronze tints or low-E coating. The R-values can reduce your heating and cooling bills, as well as adding dollar value because you're creating an energy smart home.





Various door designs can be dutched and rabbeted.

Net lock rail is 8-13/16," bottom rails are overall 8-1/4" on Buffelen dutched and rabbeted doors.



Dutch Doors

Dutch doors are all about being flexible. Open the top when you need a little ventilation, keeping everything secure down below. Kids and pets are safely kept from roaming, while the open top allows the breeze to drift in from the garden beyond. It is the best of both worlds.



Buffelen's optional bladder press panel is available as shown.

Net lock rail is 8-13/16", bottom rails are overall 8-1/4" on Buffelen dutched and rabbeted doors.



All dutch doors are rabbeted, unless specified as not rabbeted.



Weather stripping option for dutch and rabbeted door.



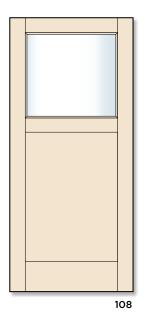
2039

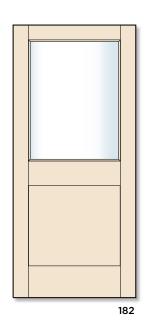


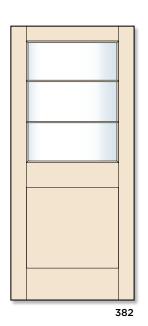


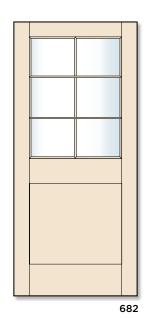
Sash Doors

Combining the warmth of wood with the room expanding views that glass panels add, sash doors have a way of opening up interior spaces beautifully. They bring natural light into enclosed spaces yet, with more than twenty different glass options to choose from, they can allow for privacy and security at the same time. And, because they're Buffelen Doors, you'll feel the difference immediately—the feel of quality wood doors that creates a sense of safety, warmth and comfort.











MODEL SHOWN: 4946



SASH DOORS





Buffelen's optional bladder press panels won't crack, split, expand, or shrink. Available in most species.



See pages 95-96 for glass options.



MODEL SHOWN: 662 with beveled glass



Fire-Rated Doors

Safe and environmentally sound

Yes there's code. Talk to your architect. And then there's your personal code—of what is safe and sound for you and your family. Your best answer is to trust the fire-rated doors from the wood door manufacturing company that has been working to gain your trust for over 100 years—Buffelen Woodworking. Fire-rated doors are made in most species in sizes up to 3'6" x 8'0".







Shown with Raised Panels

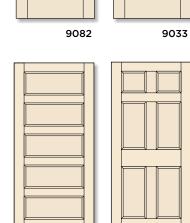
20 Minute Fire-Rated Doors

Flat panel or bladder press raised panel. 20 minute fire rated doors are also available in MDF. Machining and pre-hanging is available for fire-rated doors.

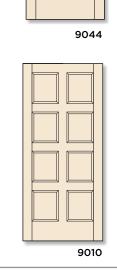




9054



9055



45-60-90 Minute Fire-Rated Doors

Most panel door designs in many species are available. Segmented and inner arch top doors can be built to the 45-60-90-minute specifications. Machining and pre-hanging is available for fire-rated doors.

MAXIMUM SIZES

45, 60, & 90 Minute: Single 3'6" x 8'0" 45 & 60 Minute: Double 7'0" x 8'0"

Both A & B category doors are available.

THICKNESS

45 & 60 Minute: 1-3/4" or 2-1/4" 90 Minute: 2-1/4" 45-60-90 minute fire-rated doors are built with a special material layered into the core for maximum protection.



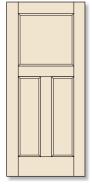




9082-45

9082-60

9055-45 9055-60 9055-90

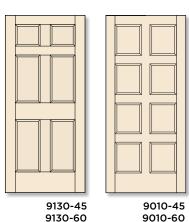


9130

9033-45 9033-60 9033-90



9044-90



9130-90





Louver Doors

They call to mind the look and feel of the tropics. Privacy with the easy circulation of cooling breezes—it's what the louvered door was designed to bring to your home. Buffelen has engineered this classic look with a variety of options that enhances the beauty of any décor. For ventilation, plantation slats maintain privacy while allowing air to circulate freely. Chevron slats retain the look of open slats; yet maintain the security of a solid panel door. Chevron slats available in either vented or non-vented versions. Fullyoperable louvers are available in various designs and species. They're built with all the craftsmanship and pride that Buffelen brings to every door we make.

Buffelen's fully-operable plantation louvers shown here



L O U V E R D O O R S





BW20L *BW20LCHEV

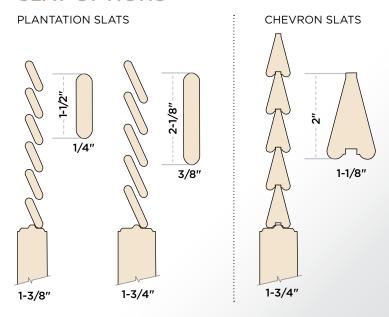


BW22LL *BW22LLCHEV



BW82LL *BW82LLCHEV

SLAT OPTIONS



All Buffelen Plantation Louver doors feature slats that are fully mortised into the door stiles. This provides the strength and security of a solid panel door with the look and ventilation louvers are known for.

Louver Doors

Create your unique version of the Plantation Louver Series in a few simple steps — just select a door style, size and species and Buffelen will handle the rest. Matching jamb components and detailed CAD drawings available. Louvered bifolds and special sizes are also easily accommodated, just ask your Buffelen dealer for a quote.



*BW82LPCHEV



*BW82PLCHEV



*BW44LPCHEV





Panel Doors A thousand ways to master your interior

There's nothing like a quality wood Buffelen stile and rail interior door—to create a sense of safety, warmth and comfort. How can you tell the difference between a quality wood door and one that's not? It's the weight, the feel, and the sound of the door when you close it. If it doesn't feel safe and sound, chances are you won't either.



20 Shown In Fir



Shown In Knotty Pine



Shown with inner arch, in Knotty Alder

INTERIOR DOORS



1120CB Shown in Knotty Alder with magnetic chalk board



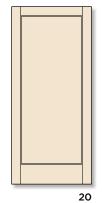
1181CB Shown with magnetic chalk board

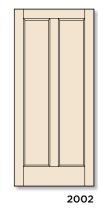


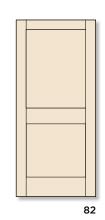
1182CB Shown with magnetic chalk board

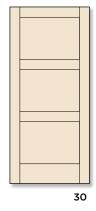


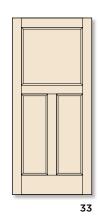
1120WB Shown in Knotty Alder with magnetic white board

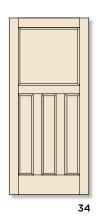


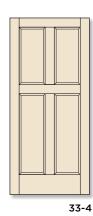


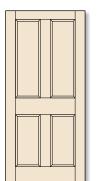


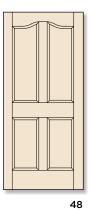






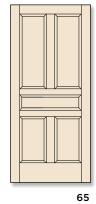


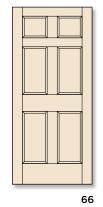


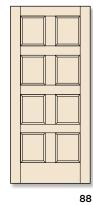


















7019 (6'8")



B30R Clip Door







Buffelen's optional bladder press panel is available as shown.



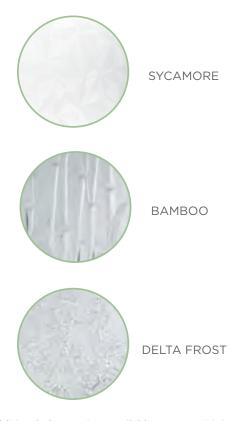
Buffelen's optional split proof panel is available as shown.





French Doors

Real wood French doors from Buffelen can draw you into the environment. They can give your home a sense of connection to the earth—letting the outdoors in or the indoors out. They can be used as the perfect accent to any home, as an entry door, as an interior door, as an atrium door, as a patio door to the garden of your dreams.





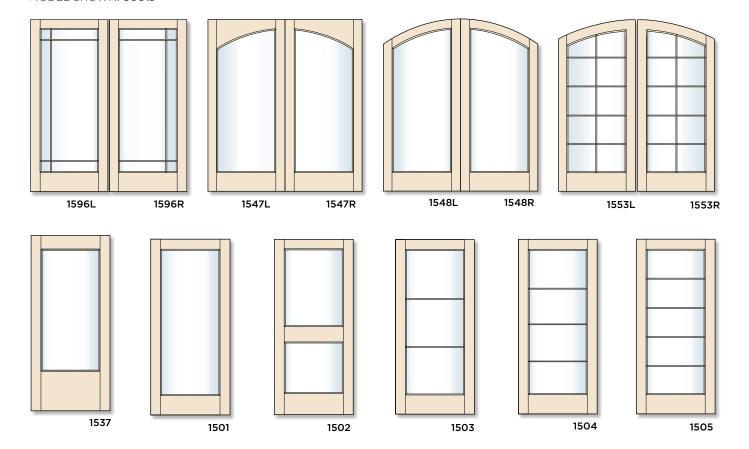


Shown with Sycamore Glass

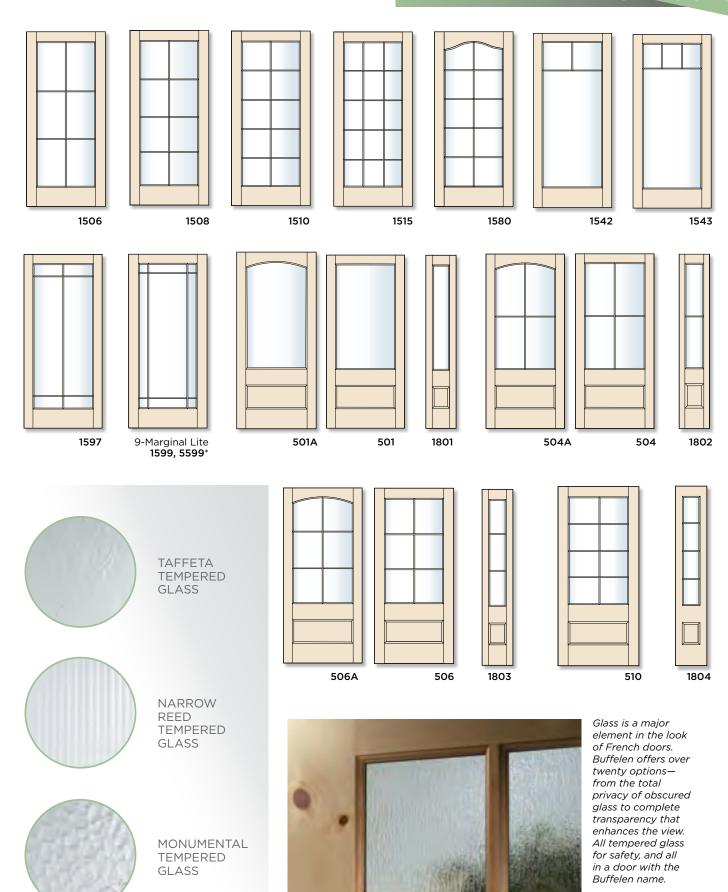
Shown in Knotty Pine



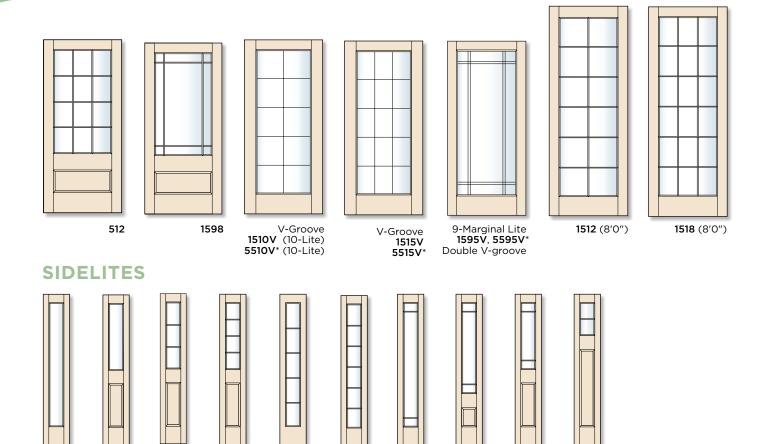
MODEL SHOWN: 6001s



FRENCH DOORS



Additional glass options available on pages 96-97



CLAMP GLAZED DOOR CONSTRUCTION

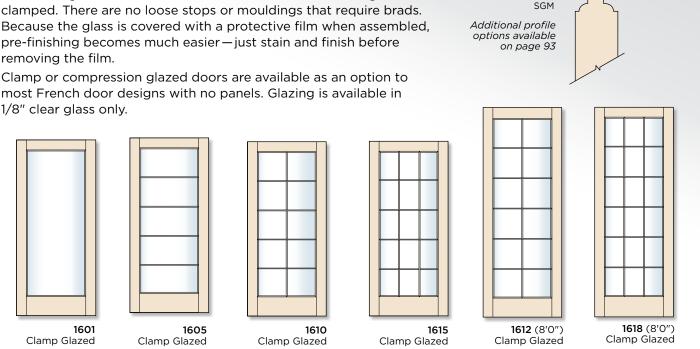
1704

1705

1703

Buffelen offers clamp glazed (also known as compression glazed) doors as an option for most interior glazed doors. In clamp glazed doors, the glass is assembled at the same time the door is glued and clamped. There are no loose stops or mouldings that require brads. Because the glass is covered with a protective film when assembled, pre-finishing becomes much easier - just stain and finish before removing the film.

most French door designs with no panels. Glazing is available in 1/8" clear glass only.



1709

1798

5798*

1743

1762

1-3/8"

Compression

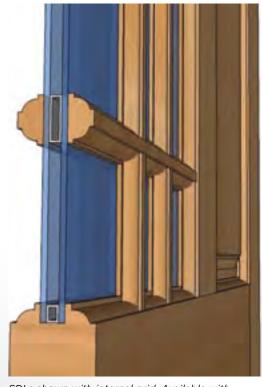
1600

*Thermal

SIMULATED DIVIDED LIGHTS

Simulated Divided Lights (SDL) have the appearance of true divided lights, but they are more energy efficient in that they are applied to only one piece of glass.





SDLs shown with internal grid. Available with or without the internal grid.



RAIN TEMPERED GLASS



CROSS REED **TEMPERED GLASS**



FLEMISH TEMPERED **GLASS**

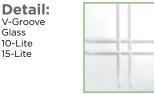


V-Groove Glass 10-Lite 15-Lite

V-Groove **1595V** V-Groove **5595V***



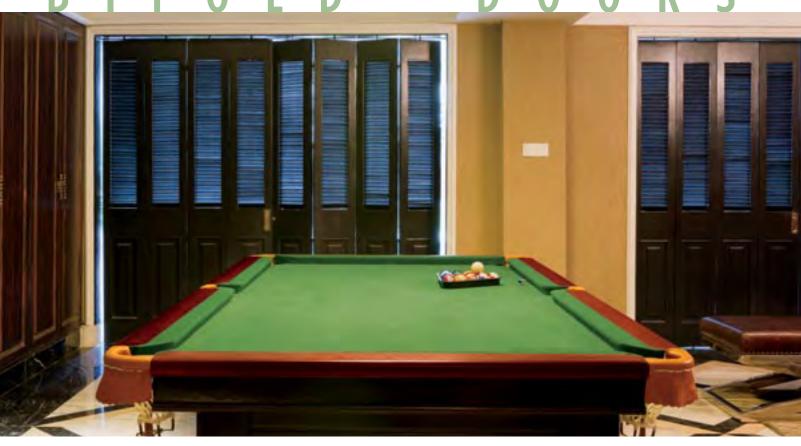
1501 with Narrow Reed Glass



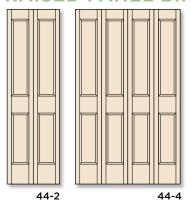
Detail: 9-Marginal V-Groove Glass

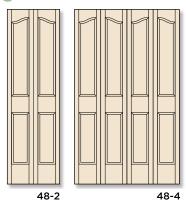
*Thermal

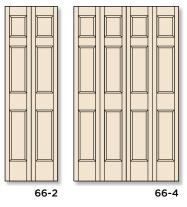
B I F O L D D O O R S

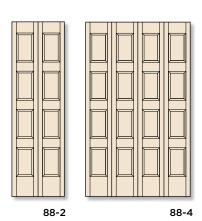


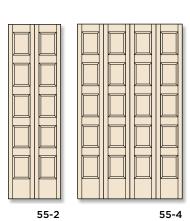
RAISED PANEL BIFOLDS



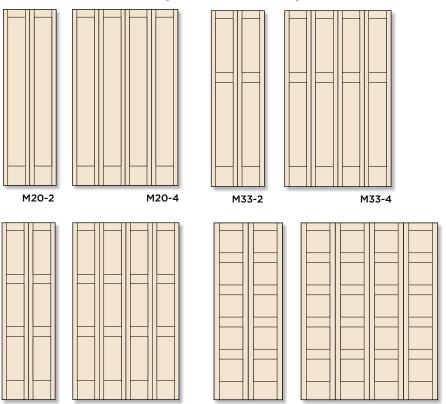








MISSION STYLE (FLAT PANEL) BIFOLDS



M55-2

M55-4

Bifolds

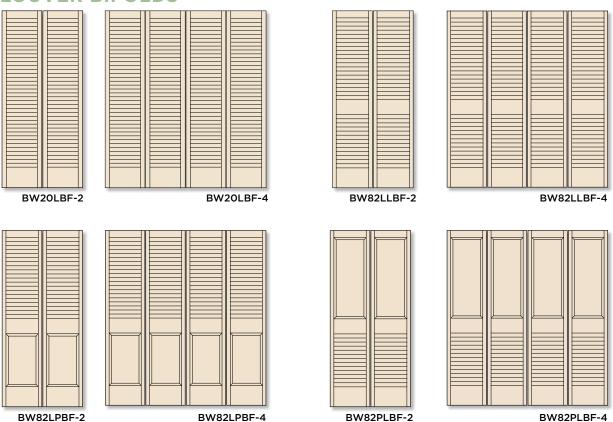
Don't overlook quality in the closets

When you're looking for quality built into a home, don't overlook the smallest of places—in the closet. And don't accept anything less than the best. The answer is wood bifold doors from Buffelenthat match the rest of the doors in the house. They could be done in beautiful vertical grain Douglas Fir or Hemlock. Or various other species. But they should be done right, right?

LOUVER BIFOLDS

M30-2

M30-4







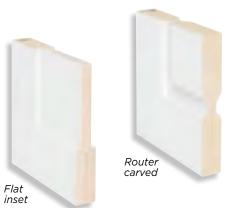
The Buffelen MDF Story:

A match for every style

Like every other door we manufacture,
Buffelen's new router-carved MDF door
series has a lot going for it. They are made
with laminated medium density MDF, an
engineered board that has excellent properties
for making doors. They offer superior
room-to-room sound proofing, will never
check, warp, or crack, and have a smooth
surface that's perfect for painting.
But, best of all, they're part of the Buffelen
family of superior quality door products.

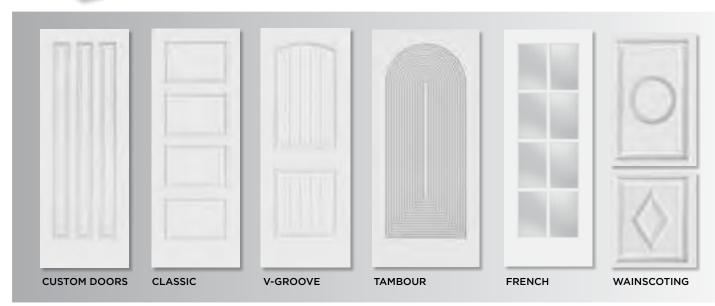
MDF FIRE DOORS

20-minute fire doors are available in MDF.

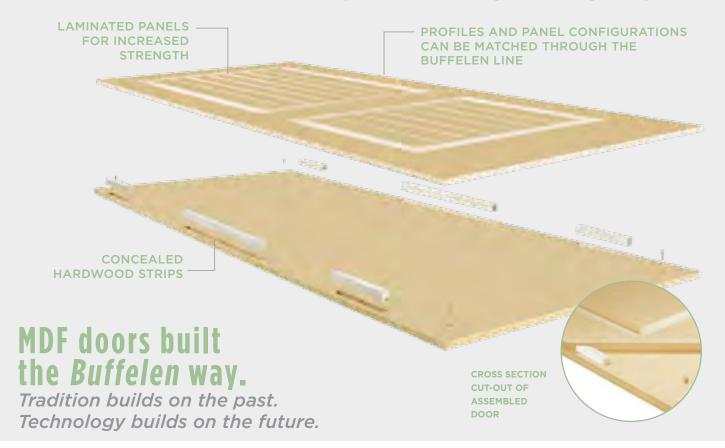


TECHNOLOGY	72
CUSTOM DOORS	73
CLASSIC DESIGNS	74
V-GROOVE DOORS	81

TAMBOUR DOORS	81
FRENCH DOORS	82
WAINSCOTING	82
PROFILE OPTIONS	83



TECHNOLOG



Buffelen's router carved MDF door line is manufactured on a state-of-the-art CNC machining center. The interior application doors utilize solid laminated MDF board for structural integrity and design flexibility. All doors feature concealed wood hinge strips for hinge loading, screw holding and weight support. Top rail strips for pocket and bypass doors are available upon request. MDF will not rot, split or check and offers enhanced sound barriers in room-to-room settings.

SPLIT OR CHECK AND OFFERS ENHANCED SOUND BARRIERS IN ROOM-TO-ROOM SETTINGS.

MDF WILL NOT ROT, Buffelen MDF doors are built to either 1-3/8" or 1-3/4" thicknesses. laminated from two sheets of solid, double-refined MDF panels after all profiles have been routed. This allows us to engineer in solid wood blocks to provide better holding power for load bearing screws, hinge loading and weight support. This means long term stability and strength.

> Before leaving our plant, every door is fully primed using our specially formulated primer. Only light sanding is required prior to painting. After sealing on all six sides, these doors will not expand or contract from changes in humidity or moisture.

Best of all, we can match the style of your solid wood Buffelen doors with panel configurations that are consistent from one part of your home to the next. It's all part of the heritage of craftsmanship we've earned over the last 100 years.

The possibilities are endless... Match interior and exterior door designs and more.



CUSTOM DESIGNED DOORS CAN BE MADE IN BOTH MDF OR WOOD.

MATCHING EXTERIOR DOORS

Buffelen solid wood doors are truly beautiful—stained and finished, they highlight the beauty of the wood, providing a focal point in your home. But, there are always those spaces that cry out for a painted alternative, but one that still matches the wood door designs in your home. Now there's an alternative. MDF interior doors can be matched to most door designs Buffelen makes. Even custom designs can be matched in MDF.

You can even order custom MDF wainscoting panels to match. Sharing the same design of the doors, wainscoting provides a beautifully finished appearance to any room.

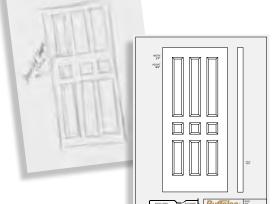




MDF7103

7103 Welmont

Match interior and exterior door designs. Welmont exterior door shown in fir.



CUSTOM DOORS MADE TO ORDER

What is a custom door? Often, it starts with a quick sketch from the architect's hand, or an idea that springs to life from the cocktail napkin where it was born. Either way, it is a quality door that's made to order. Nothing is out of bounds. After all, that's the definition of a custom door.



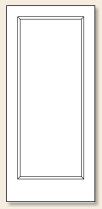


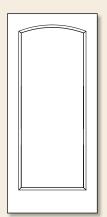
Classic, raised panel styling with profiles and panel configurations that blend comfortably with virtually any décor, all precisely carved from solid MDF. These doors combine the weight and feel of solid wood with the finish, security and acoustic properties that MDF does best.

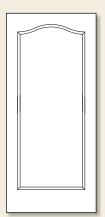
Please Note: You must specify at time of ordering if your MDF door is being used as a pocket door

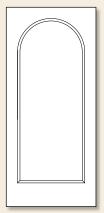
Standard thickness 1-3/8" or 1-3/4" but custom thicknesses are also available. Doors can be customized to any size up to 4'3" x 9'8". Square top, arch top and radius top doors are available.

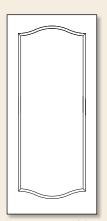
> MDF82 Shown 2'6" x 6'8"

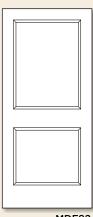












MDF20

MDF20A

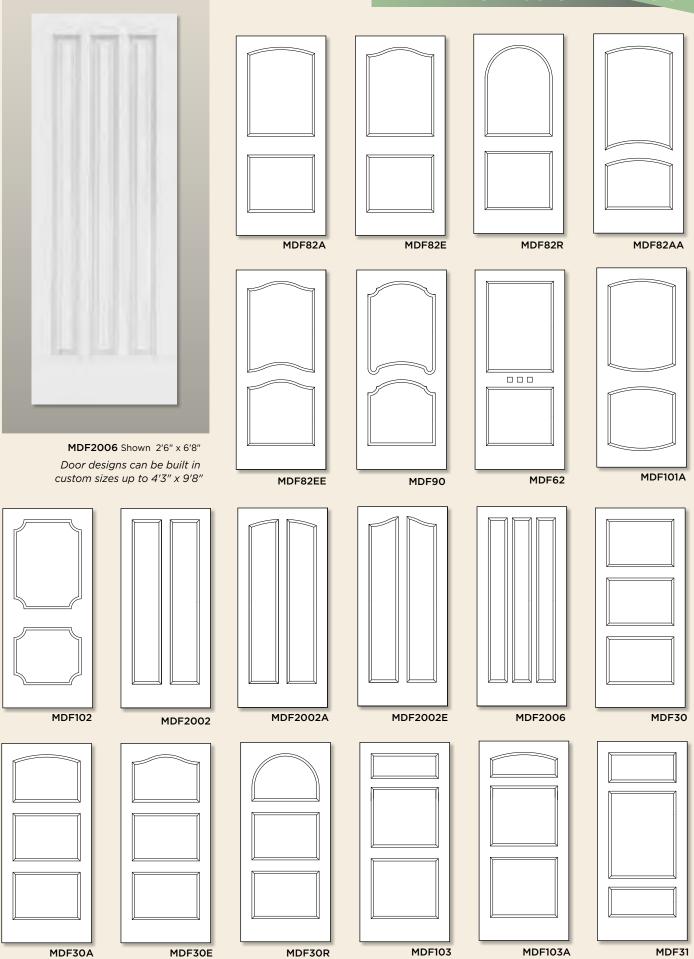
MDF20E

MDF20R

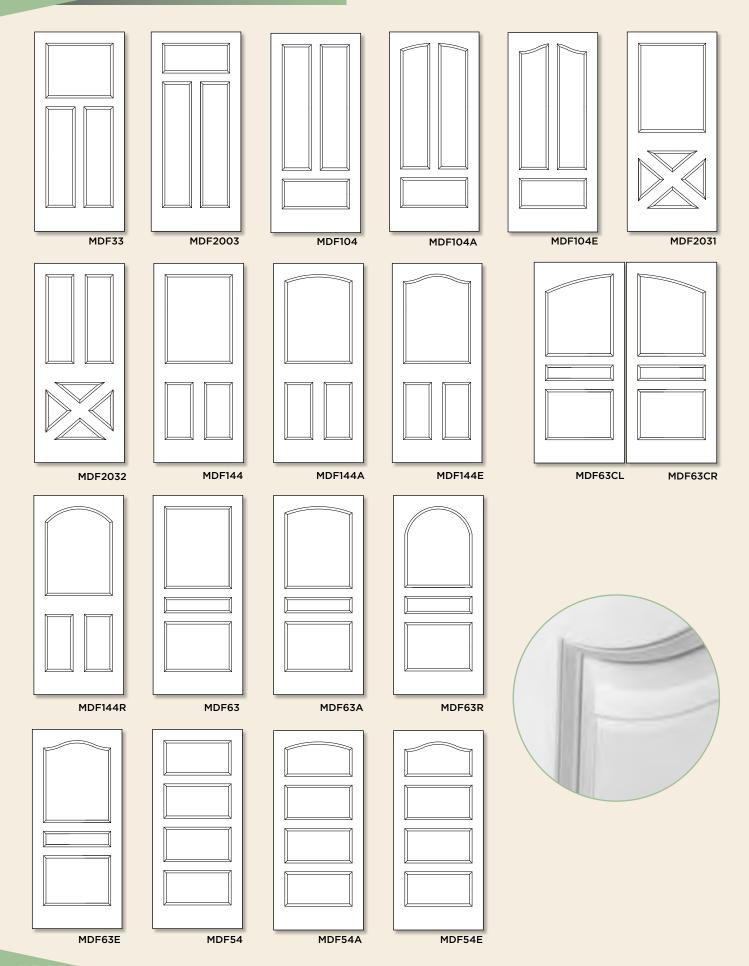
MDF100E

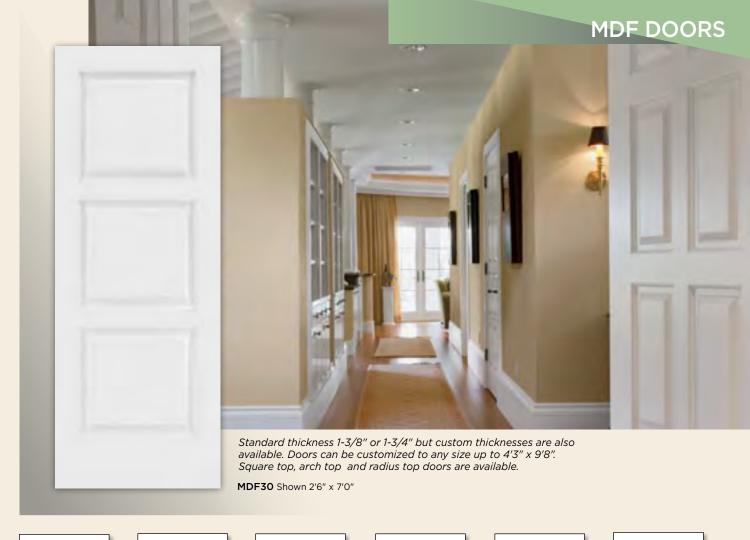
MDF82

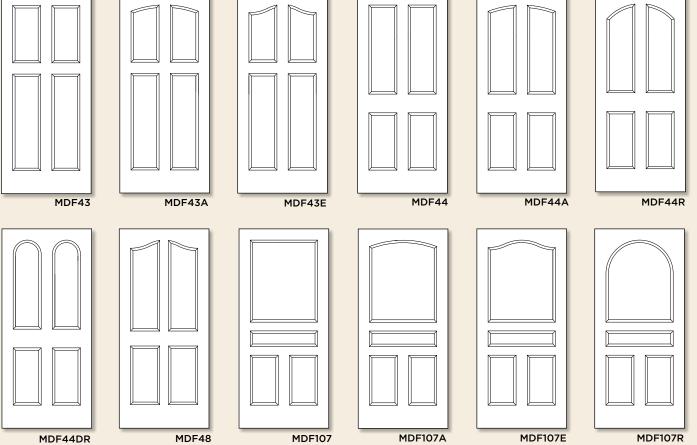
CLASSIC MDF DOORS



INTERIOR DOORS



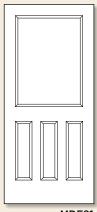




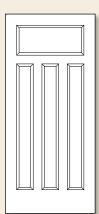


One of Buffelen's applied moulding options (see page 83 for details)

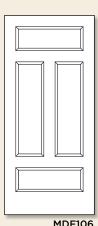
ALL BUFFELEN DOORS ARE PROUDLY BUILT IN THE U.S.A.



MDF81



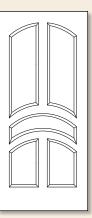
MDF2004



MDF106



MDF55



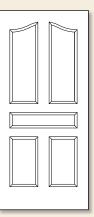
MDF61



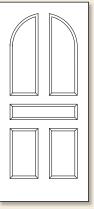
MDF65



MDF65A



MDF65E



MDF65R



MDF108



MDF109

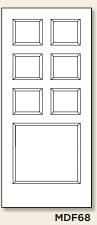
MDF DOORS



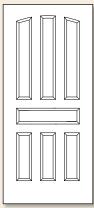
INTERIOR DOORS



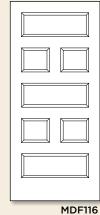
MODEL SHOWN: MDF144E Buffelen builds every door to your specifications, so matching closet doors, bi-fold and pocket doors is easy.

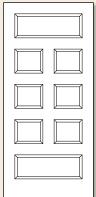




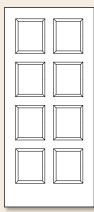


MDF115A

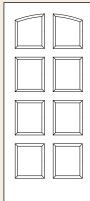




MDF117



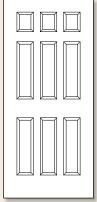
MDF88



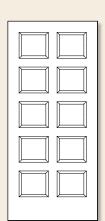
MDF88A



MDF88E



MDF118



MDF69





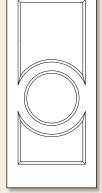
MDF105



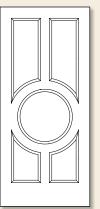


Custom door sizes, and matching wainscoting panels available. MODEL SHOWN: MDF734

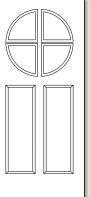




MDF734



MDF733





Standard thickness 1-3/8" or 1-3/4" but custom thicknesses are also available. Doors can be customized to any size up to 4'3" x 9'8".

MDF82AV Shown 2'6" x 6'8"

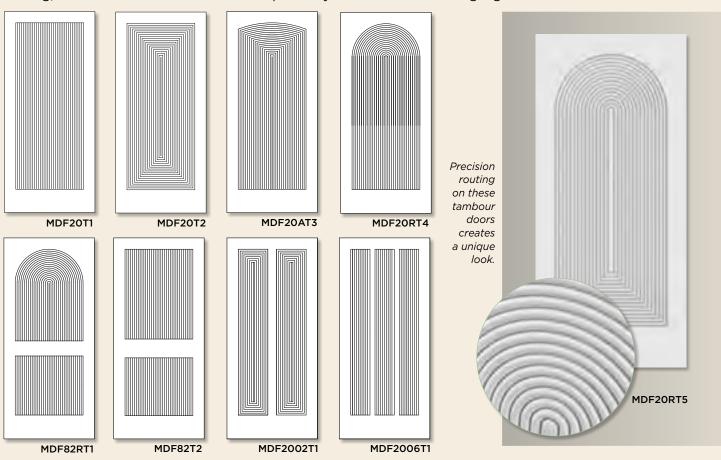
PREMIUM V-GROOVE DOORS

Buffelen's router-carved MDF doors are precision grooved, so each door is a perfect match.



PREMIUM TAMBOUR DOORS

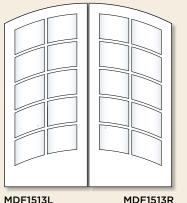
It is a sophisticated style that plays with the light to create shadows and highlights adding detail and focus to any room. Tambour styling is crisply delivered via precision routing, and the nature of MDF creates a perfectly smooth surface to highlight the detail.

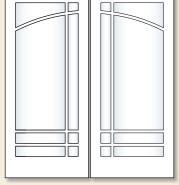


INTERIOR DOORS

FRENCH DOORS

Open, they provide a grand entryway from space to space, closed they enhance the intimacy of a room without closing it off completely from the rest of your home. Glazed or paneled, router-carved MDF French Doors from Buffelen give you the best of both worlds.



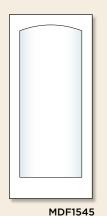


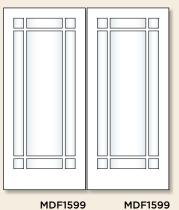
MDF1513L

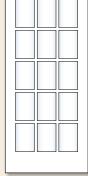
MDF1513R

MDF1591L

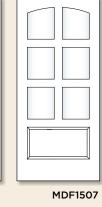
MDF1591R





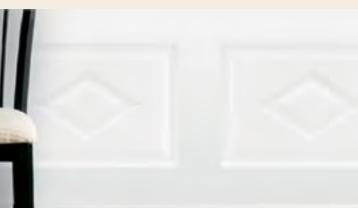


MDF1515





MDF1508 Shown with narrow reed glass option.



WAINSCOTING

Fully customized to your specifications, wainscoting adds a formal look to any room. From the chair rail to the baseboard, precisely detailed, router-carved MDF panels match the look of doors and mouldings to create a finishing statement to the more formal areas of your home.

Additional designs available—send us your drawings.







WSC001

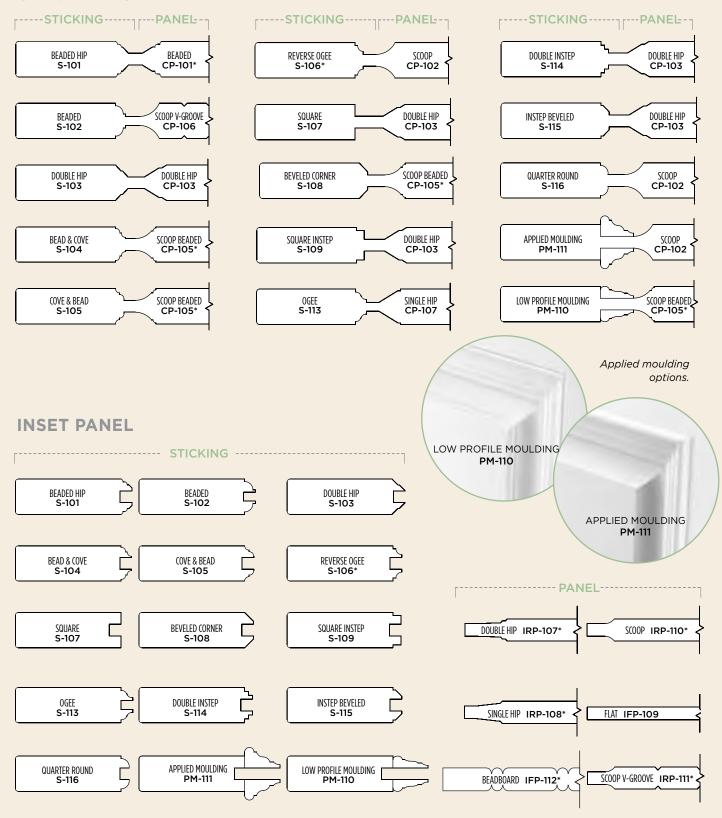
WSC002

WSC003

WSC004

Sticking and panel profiles may be mixed and matched.

CARVED FACE







BWC 735 Shown in 6'8"' height

DURABILITY: IMPACT DOOR TESTING

ANSI/AAMA/NWWDA 101/1.S.2

ASTM E-1886 CYCLE

ASTM E-1996 IMPACT

TAS 201 IMPACT

TAS 202 STRUCTURAL

TAS 203 CYCLE

ASTM E-283 AIR

ASTM E-330 STRUCTURAL

ASTM E-331 WATER

ASTM E-547 FORCED ENTRY

ASTM E-1300 GLASS

NFRC THERMAL RATINGS

Impact-Rated Doors... From *Buffelen*

Beauty and craftsmanship that stands up to just about anvthing man or Mother Nature can throw at it.

Building a door to withstand hurricane force winds and flying debris is one thing. Building it with the style and craftsmanship Buffelen has become synonymous with for over 100 years is another thing altogether. Our state-of-the-art CAD design capabilities, CNC manufacturing system and team of expert craftsmen combine to produce impact-rated doors, sidelights, and transoms with the warmth and charm of beautifully designed, custom built, hand assembled joinery.

Whether its square, arched or radius tops, glazed or panel construction, single or double entries, all our doors use premium hardware for ultra-secure, trouble free operation year after year. Multi-point lock systems, heavy duty ball bearing hinges and threshold options that withstand nature's (or anyone else's) assault. Fully laminated, low-E glass options provide complete security while reducing cooling costs.

All impact ratings are in compliance with the 2012 International Building Code. All Buffelen impact rated products have been thermally tested to be in compliance with the 2012 Energy Code.

But, best of all, they're from Buffelen Woodworking. 'One of a kind' is built with the same attention to detail we bring to a full production run. We can build with any species you choose, and every door carries our 100 year legacy of quality and craftsmanship.

EVERY IMPACT DOOR WE BUILD OFFERS:

- Florida, Texas and Miami/Dade HVHZ approvals
- Fully-rated square, arched or radiused tops
- Glazed or panel construction

CODE COMPLIANCE:

- Impact ratings in compliance with the 2012 International Building Code
- Thermal testing in compliance with the 2012 Energy Code

IMPACT-RATED DOORS



IG impact glass / monolithic impact glass .090 PVB inner layer

SIMULATED DIVIDED LITES (SDL)

Create a classic look without sacrificing security—spacer bar option

STAIN-GRADE FRAMES

0

Beautiful doors deserve a beautiful frame

MULTI-POINT LOCK SYSTEMS

Vault-style full-door integration for maximum security. Various finishes available.

GLOBAL WOOD SPECIES SOURCING

We supply almost any specie you choose



CUSTOM-DESIGNS BUILT WITHIN APPROVALS

HINGES

Panel, profile, and frame options all engineered to meet appropriate codes

PANEL OPTIONS

Bladder pressed raised panel, flat or V-groove.

THRESHOLD OPTIONS

Mahogany sills available

IMPACT-RATED DOORS

SINGLE DOORS: **GLAZED**Square Top | Arch Top | Radius Top

SEVERAL GLASS OPTIONS AVAILABLE

MAXIMUM SIZES:

FL13391 1-3/4" 3'0" x 8'0"

FL13391 2-1/4" 4'0" x 10'0"

N.O.A. 13.0326.12 TDI DR 302, 303, 304



SINGLE DOORS: PANEL Square Top | Arch Top | Radius Top

SEVERAL PANEL OPTIONS AVAILABLE

MAXIMUM SIZES:

FL13391 2-1/4" 4'0" x 10'0"

N.O.A. 13.0326.13 TDI DR 302, 303, 304







MAXIMUM SIZES:

FL13391 1-3/4" 6'0" x 8'0"

FL13391 2-1/4" Standard 8'0" x 10'0" 2-1/4" Arch 7'0" x 10'0"

2-1/4" Radius 7'0" x 10'0"

N.O.A. 13.0326.12 TDI DR 302, 303, 304





DOUBLE DOORS: PANEL Square Top | Arch Top | Radius Top

SEVERAL PANEL OPTIONS AVAILABLE

MAXIMUM SIZES:

FL13391 2-1/4" Standard 8'0" x 10'0" **2-1/4"** Arch 7'0" × 10'0" **2-1/4" Radius** 7'0" x 10'0"

N.O.A. 13.0326.13 TDI DR 302, 303, 304

MODEL SHOWN: BWC742 with custom transom

TRANSOMS AND SIDELIGHTS

Square Top | Arch Top | Radius Top

CREATE A DRAMATIC FIRST IMPRESSION

MAXIMUM SIZES:

Sidelights 3'0" x 8'0" **Transoms** 8'0" × 3'0" FL13387 TDI DR 302, 303, 304



Sidelights and Transoms offered with impactresistant glass, including an .090 PVB inner layer.



Gates

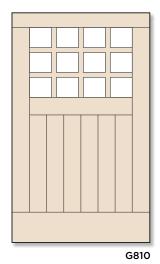
The perfect entry to your garden world

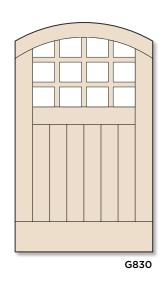
Is there a better entry to your garden's peaceful world than through your Buffelen Gate? We don't think so. They're solid Western Red Cedar to take the elements in stride, and built with mortise and tenon joinery and sturdy dowel pins where necessary. Planking is tongue and groove. The effect is beautifully solid yet welcoming.

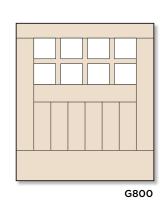
There's security in a well built gate, too. These are a full 1-3/4" thick, with 2-1/4" thickness available. Standard sizes are 42" wide by either 48" or 70" tall. And, of course, they're from Buffelen so you know they're built with care and craftsmanship.

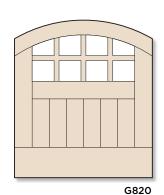
GATE SPECIFICATIONS:

- Available in solid Western Red Cedar
- 1-3/4" Thickness standard, can upgrade to 2-1/4"
- Mortise & tenon and dowel pin construction
- Tongue & groove planks
- Standard sizes:
 42" wide x 48" tall
 42" Wide x 70" tall











Primed Doors

Not just primed, perfectly primed

At Buffelen, we pay as much attention to those doors that will be painted as we do to our stain-grade products. We've selected premium grade, environmentally friendly water-based acrylic primers with very low VOC content (volatile organic compounds). Each door is completely primed (all exposed surfaces) with an extremely durable film that has excellent adhesion properties for both wood and MDF surfaces. The primer has superior leveling properties providing the perfect, ultra-smooth base for over-coating. When your primed door is finished with good quality exterior house paint, you can expect years of protection. After all, isn't that what you would expect from Buffelen?



Pre-Hung Doors

A quality, well-built door is a precision instrument. When hung correctly, it should swing easily on its hinges, clear its jamb and fasten securely on its latch. Pre-hanging ensures that the jambs are accurately sized to the door, the hinges are mortised correctly and the door installation will be as troublefree as possible. Buffelen specializes in pre-hanging oversize or custom doors with perfectly matching jambs and hardware that will last as long as the door it supports. Heavy duty hardware and multi-point latching systems call for the craftsman's touch to install correctly—you'll find it in every pre-hung Buffelen door.



BUFFELEN EXTERIOR FOLDING DOOR UNIT

PRE-HUNG DOORS

MULTI-POINT LOCKING SYSTEMS

3-Point locking system shown, 5-point locking system available.



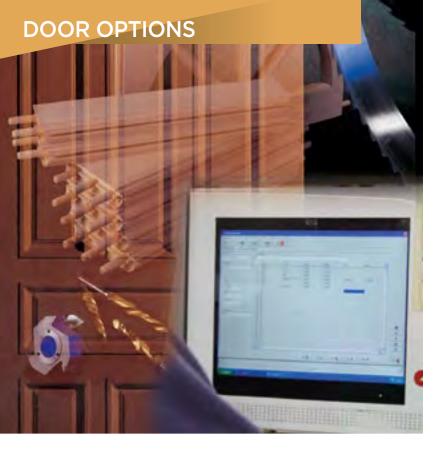








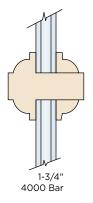
Square hinge option (color: US10B) Weather stripping, sweep, and threshold installed

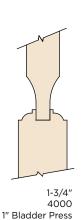


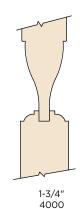
Millworks

Profiles to match, not just make do.

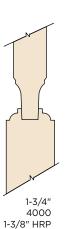
When you're building a house today Buffelen believes that every detail in that house should match. No compromises. That's why we offer dozens of profiles to choose from. A craftsman house should have craftsman sticking. Ovolo sticking is a perfect fit for a traditional house. It's the kind of choice you've grown to expect from Buffelen. We'll deliver.

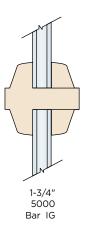


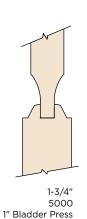


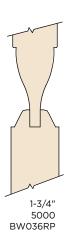


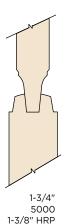
BW036RP

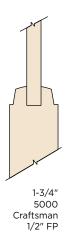


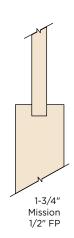














DOOR OPTIONS

Tempered glass *Multiple choices, clear options*

Everyone looks at things a little differently. Buffelen offers a clear choice in quality tempered glass for whatever you are trying to achieve. From total privacy in a bathroom to enhancing a showcase view through French doors. It's all about obscurity and visibility and shades of light in between. The only choice you have to make is Buffelen, Buffelen or Buffelen. Clear enough?







Clear Beveled



Grey



Bronze



IG with White GBG



IG with Bronze GBG

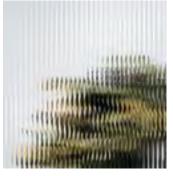


Flemish



Seedy Baroque

TEMPERED GLASS









Narrow Reed

Cross Reed

Monumental

Rain









Glue Chip

Double Glue Chip

Delta Frost

P516







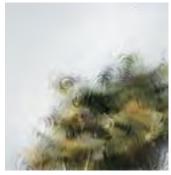


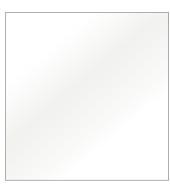
Mistlite

Satin Etch Matte

Bamboo

Sycamore





Taffeta

White Laminate Also available in clear laminate



HANDLING AND STORAGE DO'S AND DON'TS

- 1. Deliver doors in a clean truck and under cover.
- Do not deliver or install doors until foundations, concrete floors and plaster or texture walls are completely dry.
- 3. Allow doors time to acclimate to the conditions at the job site prior to installation.
- 4. Never subject doors to abnormal heat, dryness or humidity for prolonged periods, (i.e. forced heat).
- 5. Store doors lying flat on a level surface above the ground in a dry, well-ventilated building and keep covered. Don't stack doors on end.
- 6. If the doors are to be stored on the job site, the entire door including top and bottom edges must be sealed with a clear or pigmented based sealer to prevent moisture absorption. All six sides of the door must be properly sealed for warranty to apply.
- To keep doors protected, use clean gloves and equipment. Cover doors, but allow for air circulation. Carry, do not drag doors over any surface.

IMPORTANT NOTE: Panels of stile and rail doors are engineered to float so they can move with changes in climate without causing stress. Make sure these components are aligned before finishing. You can correct alignment by carefully moving the panel with a wood block, rubber mallet and a soft touch. Components that have shifted and must be aligned are not considered "defects" according to the warranty.

Fit & Finish

Doors that can last a lifetime.

WARRANTY

All Buffelen stile and rail doors conform to industry Standard FHDA 7/79 and are covered by the Buffelen limited warranty available upon written request. Buffelen warrants each door to be free from defects in material or workmanship for a period of one year from the date of shipment to Buffelen's customer. Doors not handled in accordance with these guidelines will not be considered in any claim for warranty.

FITTING AND HANGING

- When hanging a door, allow adequate clearance for swelling of door or frame in extremely damp weather.
- Use designated sizes to avoid cutting door width. For trimming ends, we recommend a sharp, finetooth saw.
- 3. Be careful not to impair structural strength of door when fitting for hardware or special features. To prevent distortion, set hinges in straight line. Use three hinges on doors 7' or less; four hinges on doors over 7' high. Jambs and stops must be square and plumb.
- 4. Protect outward swinging doors that are exposed to the elements. (An adequate overhang is strongly recommended for exterior doors. A general rule of thumb for an overhang is to measure height from porch to overhang and divide the distance in half. That measurement would be a minimum overhang width recommended.)
- 5. Immediately after fitting or cutting, and prior to weather-stripping and hanging any door, give the entire surface (including all edges) two coats of paint, varnish or a quality sealer to prevent moisture absorption.
- 6. To minimize heat loss and reduce energy costs, use any good weather strip on exterior doors.
- Damage incurred due to extreme temperature build-up when a storm door is used is not considered a defect.

Buffelen reserves the right to make product improvement changes in specifications, materials and construction details.



The Buffelen Door {Defined}

All Buffelen stile and rail doors are individually handcrafted at our manufacturing plant in Tacoma, Washington.

THE ANATOMY OF A BUFFELEN DOOR:

- 🙆 DECORATIVE GLASS leaded, beveled, glue chip and stained glass designs as well as deeply carved panels are used to embellish a door's natural wood beauty.
- STILES upright or vertical members form the outside pieces.
- RAILS horizontal members frame the wood panels and carved wood/glass inserts.
- MULLION the vertical framing between the stiles.
- RAISED PANELS are panels set into the door stiles, mullions and rails whose center sections are raised.

PREPARATION AND FINISHING

NOTE: Please follow these recommendations to protect your warranty.

- 1. Inspect door carefully for defects before finishing.
- 2. All doors manufactured by Buffelen require sanding and prep prior to finish. The amount of sanding will depend on the expected appearance after finish.
- 3. Remove all dust with a tack cloth before beginning to apply finish.
- 4. Hang the door prior to finishing, then remove to finish properly.
- 5. Apply finish to the door immediately after fitting and hanging, but never during or immediately after high periods of moisture.
- 6. The door should be finished while lying flat-for maximum performance of finish.
- 7. Use solvent based paints, sealers and stains, or when applicable, high quality water based paints or stains, and follow manufacturer's directions. Apply finish to all surfaces including top and bottom edges. Dark color finishes should not be used on doors exposed to prolonged direct sunlight. The heat buildup may cause warping, veneer checks or separation.
- 8. TO STAIN THE DOOR: Apply a stain and sealer combination as recommended by the paint/stain manufacturer for the type of application (either exterior or interior). The stain and sealer combination will stain the door and seal the surface. Apply three coats of clear top coat, such as varnish or polyurethane. Sand lightly between coats. All exteriors must have ultra violet (UV) inhibitors in the finish. Do not use solid based stains as the final finish. These finishes must have three coats of varnish or polyurethane as final top coat.
- 9. TO PAINT THE DOOR: Use a quality solvent-based primer, followed by three coats of a good exterior paint recommended by the paint/stain manufacturer to be compatible with the primer. When finishing glazed doors, apply top coats generously to bridge wood and glass. To protect against moisture, lap paint onto glass 1/16 inch. For interior applications, use a quality interior primer followed by two coats of interior latex enamel or solvent-based paint. The door manufacturer is not responsible for the final appearance of doors finished in the field. It is expected that the painting contractor will make adjustments as needed to achieve the desired results.

NOTE: Buffelen is unable to evaluate all available paints and stains or all customer applications our doors are used in. Your paint/stain dealer should be able to help you with choosing the proper finish system for your new stile and rail door(s) that is specific to your region. It is strongly recommended that only the highest quality finishes be used and that all finish instructions be properly followed.

A FINISH OF LASTING BEAUTY

To ensure a watertight seal between wood and glass, some glazing material may be squeezed out onto the visible surface of the glass during manufacturing. This must be removed before finishing.

To remove excess glazing material, score it with a knife along the edge of the wood. Be careful not to cut into the wood or scratch the glass. Once scored, the glazing material can be easily pulled off by hand or with a plastic scraper. We do not recommend tools made of metal or razor blades. Use extreme care when cleaning squeeze out, paint, stain, etc. off tempered glass. It scratches very easily.

MAINTENANCE

All finishes will last longer when protected from direct sun and rain by an overhang or porch. If the door is exposed to the elements, a fine bead of silicone caulk should be used between glass and sticking or panel and sticking on the door's exterior.

All finishes should be checked yearly to see if they need refinishing.

The variations in vertical grain and color are natural. After all, every Buffelen stile and rail door is real wood. And every one is an original.



The only building material that builds itself

Building "green" is a contemporary label for the "three E's" that must be increasingly balanced by today's building professionals: energy, environment and economy.

A new orthodoxy has also emerged that assumes any alternative to wood is somehow environmentally preferable. So how does wood stack up as a green building material?

ENERGY

Wood is the only building material that is largely energy self-sufficient in its manufacture—the only material that builds itself. By weight, wood remains our number one industrial raw material, accounting for 47 percent of consumption, but for only four percent of the total energy embodied in the manufacture of raw materials.

Steel, on the same basis, accounts for just 23 percent of raw material while consuming 48 percent of the total energy input. Steel's energy input is largely in the form of mining and burning coal—non-renewable processes—while the primary energy input for wood is from solar energy. Wood is also an energy-efficient structural material when used in a building. Wood is a natural insulator; inch-for-inch it's 15 times more efficient than concrete and 400 times that of steel.



ENVIRONMENT

An image of harvested trees begs the question, "Aren't we running out of trees?"

Early in our country's history the forests were looked upon as mined resources, another gold rush, and land to be cleared. History books are replete with images of forest giants clear-cut by Paul Bunyan, and Saturday morning cartoons continue to show "eco-villains" destroying the last forest.

Against this backdrop, it's important to consider the substance rather than the symbolism.

The real story is that almost three billion trees are planted in America's forestlands each year. Perhaps it has become difficult for our society to visualize a cycle that is 50 years long. But our forest growth now exceeds removals by 37 percent.

Of course, things weren't always that way; as late as the 1920's harvest rates were double the growth. The balance changed during the 1920's as foresters began to control losses due to fire, disease and insects. Serious efforts to replant began in 1941 with the adoption of the first Tree Farm Act and in 1944 the Sustained Yield Management Act was passed as recognition of the finite nature of old growth timber.

Sustained yield is not a new concept to the forest product industry. In fact, it depends on the long-term health of forestlands. Northwest companies like Weyerhaeuser are now growing third-growth forests on their timberlands.

Another environmental plus for wood is its impact on the global carbon cycle. Many scientists contend that rising levels of carbon are leading to global warming. Growing wood fiber in your working forests is very beneficial to the balance of carbon in the atmosphere. The growth of one pound of wood absorbs 1.47 pounds of carbon dioxide and releases 1.07 pounds of oxygen.

ECONOMY

Americans use a lot of wood fiber. The current annual per capita use of wood products (excluding paper) is 80 cubic feet or about one "standard" tree—defined (by the American Forest Resources Alliance) as 18 inches in diameter and 100 feet tall, or roughly 1,000 board feet.

The untold success story is that advances in methods and materials have provided our society with much more value from the same wood fiber.

The log cabin is an American cultural icon—the first building of the pioneers—and a profligate consumer of wood. A small log house could easily use 30 to 40 of those "standard" trees.

Fortunately, the first major leap in resource efficiency took place in the mid-1830s. So-called "balloon" framing with two-by-fours and the concurrent advent of the steam-driven sawmill began to "stretch" trees to build many more houses.

The next "stretch" of wood fiber began in 1905 when structural fir plywood was developed for the Lewis and Clark World's Fair in Portland. By the 1950s, 3/8-inch plywood was replacing sheathing.

Today the "stretch" is in the form of products like oriented strand board that makes use of under utilized fast-growing species like aspen and birch.

"Structural Composite Lumber" describes the wide array of products from glue-laminated timbers to wood I-beams that continue to replace solid wood framing and stretch the resource more by putting the high-strength wood fiber into a more efficient shape.

Our local choices truly have global consequences. Wood is the product of sunlight, earth, air and water—all natural elements. Trees grow back; strip mines, gravel pits and depleted oil wells do not.

The responsible growth, harvest, processing and re-growth of wood fiber for building material is the most benign path to a sustainable future.



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