

~ CUSTOM DOOR INFORMATION ~

Custom wood doors have been a staple for Blumer & Stanton's continued reputation as a quality woodworking facility for the last fifty-plus years.

Recognized for the consistent quality and experience which is part of each custom door fabricated, Blumer & Stanton has built a reputation around being able to successfully meet it's valued customers' demands for high quality.

High quality comes with a price. For those who recognize high quality's worth, Blumer & Stanton promises the following:

Mortise and tenon construction, as a means of joining wood materials, is proven superior to dowel construction, which is preferred by many woodworking mills for it's time and cost saving benefits.

Blumer & Stanton will utilize no construction other than mortise and tenon in it's stile and rail doors.

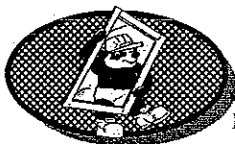
Superior materials, selected for color and grain when requested for matched finishing, are dressed and profiled, and incorporated into a fine custom wood door, fabricated to meet AWI (*Architectural Woodwork Institute*) premium-grade quality standards, when specified, and handled with care from our shop to our customers' destination.

Blumer & Stanton will match your existing door for replacement, or prepare shop drawings for your custom order.

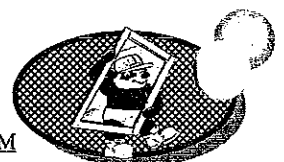
Many design options are available to Blumer & Stanton's custom wood door customers: multi or single lite, raised panel, flat recessed panel, flat recessed panel with rim mould, and applied panel mould on flush door faces.

Sample door elevations and sections are included here as a means of introducing some of the many designs and styles available.

Doors on the following pages may be modified to accommodate individual tastes.



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For example, the doors which feature wood panels may have one or more glass lites in place of the illustrated wood panels.

Likewise, most of the doors with glass lites may be fabricated with either wood raised panels or flat panels with applied lip or inset mouldings.

Combinations of these designs are also possible: replacing three out of nine wood panels with glass lites in a nine raised-panel door will create an entry door that is both attractive and allows more light infiltration.

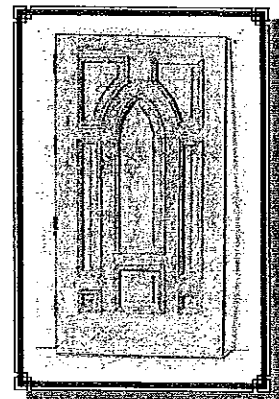
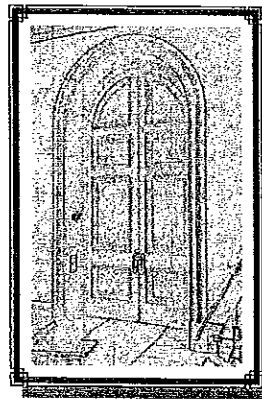
Most of the illustrated designs can also be accomplished with applied panel moulding on a flush door. An example of this can be found on page: 95. Panel mould profiles and clip corners can be found in pages: 36-43 of the "Moulding" section.

As with all of our custom woodwork, your custom doors are fabricated to your design and dimension specifications, from the wood species of your choice.

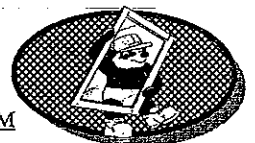
An overview of stile and rail doors and their individual components follows for your convenience. Review these pages for basic information which may be helpful while planning or discussing your custom wood door options.

"General Limited Warranty Information" and **"Care, Handling, Job Finishing, and Installation Instructions"** follow this page, and are also included as appendices in the back of our product catalog for the convenience of your installer and finisher.

Your installer and finisher should become familiar with these documents and their guidelines prior to your custom order. This will help guarantee optimum results.



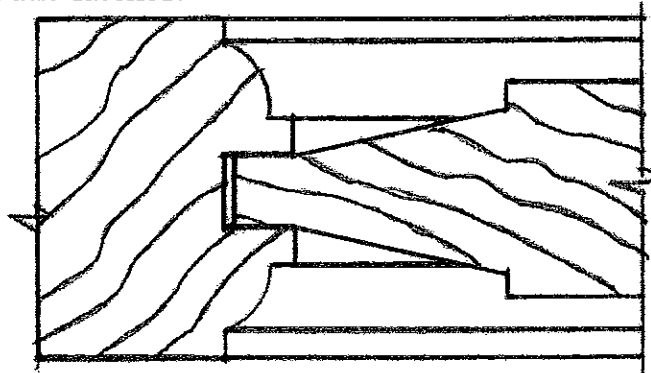
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Stiles

Stiles are the vertical outside members. Stiles usually have solid sticking (solid stuck, solid moulded). The stiles are ploughed or grooved along the edge to receive the panels, rails, and/or glass. The stiles will contain much of the hardware for the door, and must be sized and fabricated to fit the intended hardware, locks, and latches.



“Ovolo-A” Stile & Rail Profile - Full Size Section
Shown with raised panel

See pages: 92 - 102 for other panel options available

Rails

Rails are the cross or horizontal members of the door. Rails are coped on both ends to fit the sticking of the stile. Tenons are machined into the rails to fit mortises in the stiles.

The top and bottom rails are required, with the addition of intermediate cross rails or lock rails as appropriate. The bottom rail is usually the widest of the members, made of edge glued lumber. The top rail is often the same face dimension as the stiles.

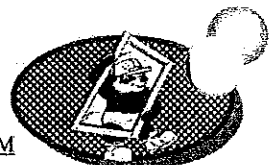
The lock rail, if there is one, is usually a wide member located at lock height. In the case of narrow stiles or large hardware, this rail serves to house the lock and latch mechanisms.

Mullions

The mullion is an upright or vertical member between panels. It is similar to a cross rail in the way it is fit and machined.



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~ CUSTOM DOOR INFORMATION ~

Panels

The door panels are either solid lumber or panel products that fill the frame formed by the stiles, rails, and mullions. When the figure of the wood is visible in the finished product, the grain direction of the panels usually runs along their longest dimension; vertical for tall panels and horizontal for wide (or laying) panels.

Muntins and Bars

Stile and rail doors with glass panels often utilize muntins and bars, which are smaller in section than mullions. A bar is a rabbeted moulding which extends the total height or width of the glass opening. A muntin is a short bar, either horizontal or vertical, extending from a full bar to a stile, rail, or another bar. Muntins and bars are traditionally coped and mortised joinery.

Custom-designed stile and rail doors offer many opportunities for creativity and choice. Some of the variables include:

- Panel layout
- Grain patterns and relationships
- Stile and rail construction
- Moulding details
- Panel construction
- Joinery techniques

Selection among these variables requires some knowledge of their relative performance characteristics. The following drawings illustrate some of the options.

Consult Blumer & Stanton early in the design process for assistance in making selections.

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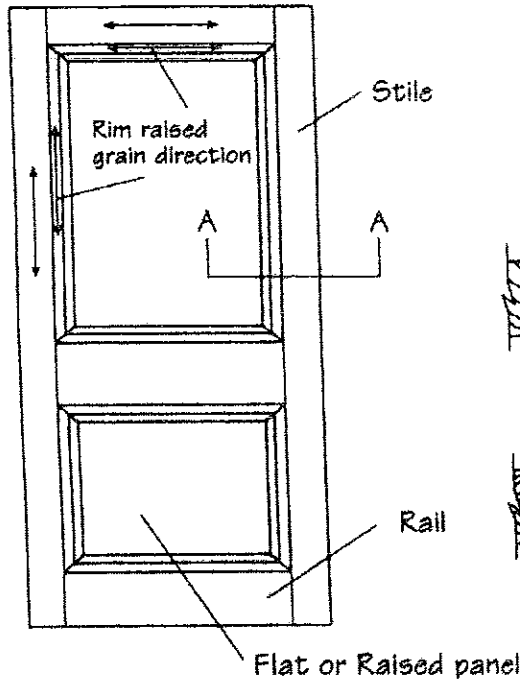


DOOR ELEVATIONS - ENTRY, SCREEN, & LOUVER

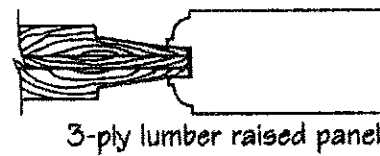
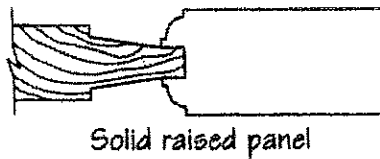
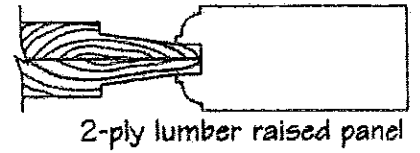
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~ CUSTOM DOOR INFORMATION ~

Panel Construction



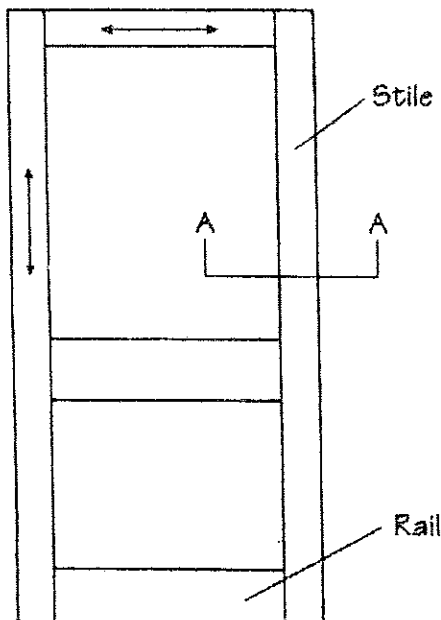
Section A-A



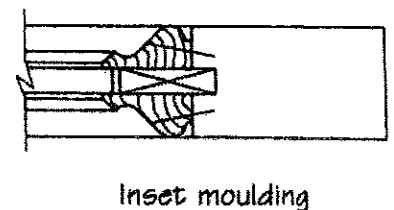
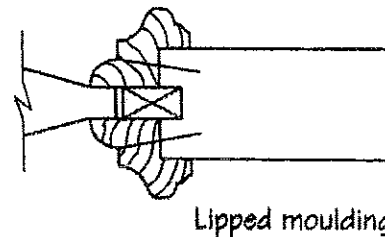
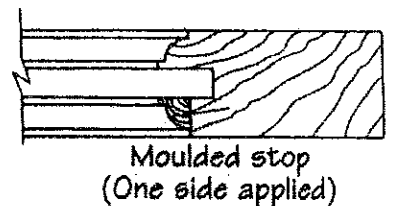
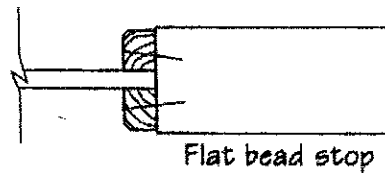
A wide variety of design choices are available.

These illustrations are intended as guidelines for the design professional and should not limit the potential for creative solutions.

Panel and Glass Retention



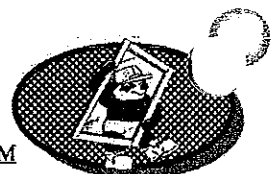
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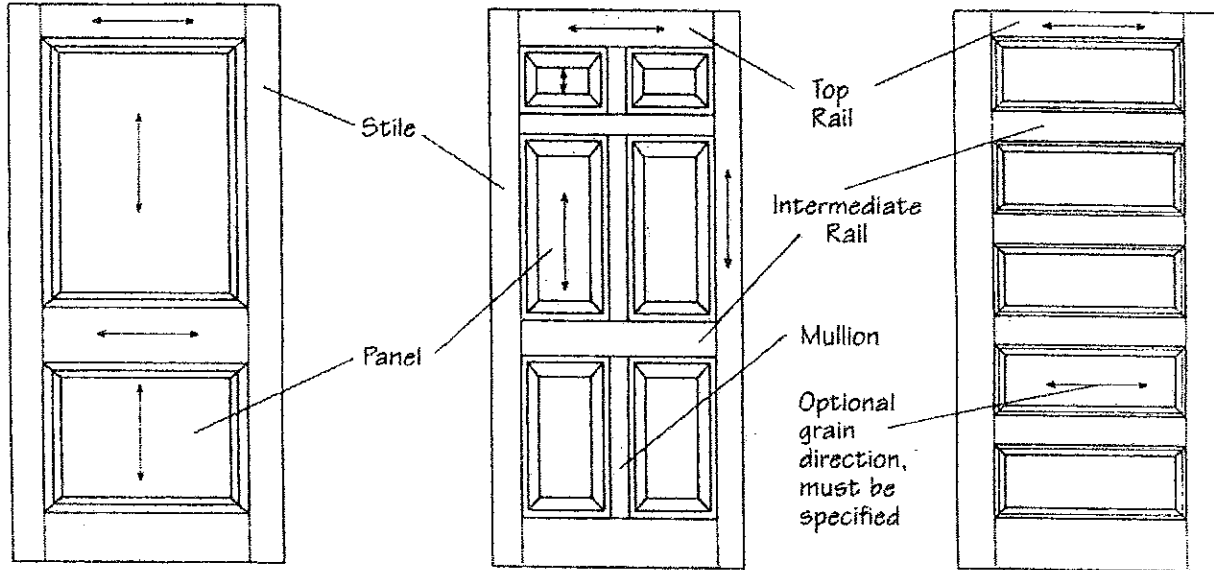


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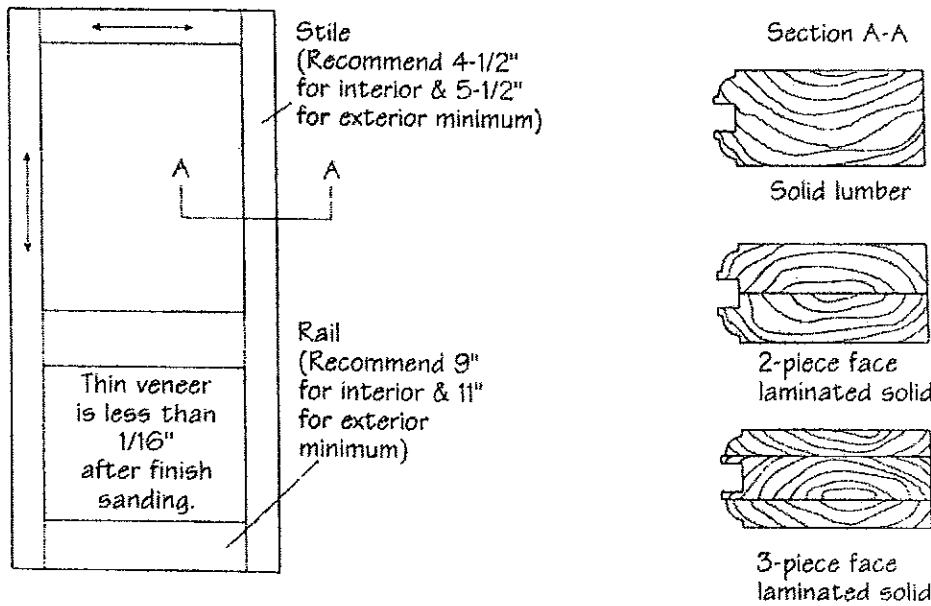


~ CUSTOM DOOR INFORMATION ~

Door Thickness, Panel Layout, and Grain Patterns



Stile and Rail Construction



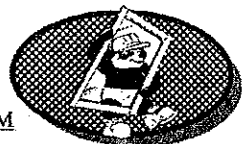
Stile and rail doors are usually 1 3/4" thick. For doors over 3'-6" in width or 8'-0" in height, 2 1/4" minimum thickness is recommended.

Traditionally, the grain direction flows with the longest dimension of the stile, rail, or panel. Panel grain direction can sometimes be altered for design purposes, and must be specified.

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~ CUSTOM DOOR WARRANTY ~

GENERAL LIMITED WARRANTY INFORMATION DOORS, TRANSOMS, & SIDELIGHTS

"We", "our", and "us" refer to Blumer & Stanton, Inc. (A Florida corporation), 5112 Georgia Avenue, West Palm Beach, Florida 33405.

"You" refers to any purchaser of our doors, transoms, and/or sidelights, in the ordinary course of business, within one year from the date the doors, transoms, and/or sidelights are shipped from our shop.

We grant you the following limited warranty: our doors, transoms, and/or sidelights will be of good workmanship and will be free of defects which would make them unserviceable or unfit for ordinary and recommended use.

This limited warranty is valid for one year from the date each unit is shipped from our shop, and it is subject to the following terms and conditions. You must inspect each unit when you receive it and before it is installed. If you find a defect in any unit, you must notify us in writing within 30 days of the date you received the unit, describing the defect to us. If a defect could not be discovered until after the unit is installed, you must notify us in writing within one year of the date the unit was shipped from our shop, describing the defect to us.

If any unit is found by us to contain defects as stated herein during the warranty period, we at our option will do one of the following:

1. Repair the defect.
2. Furnish you a replacement unit, provided that the original unit then be returned to our shop.

Under no circumstances will we pay for any cost of installing, finishing, or removing any unit, nor are we responsible for any consequential damages.

Please see "Limitations & Exclusions", next page.

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~ CUSTOM DOOR WARRANTY ~

GENERAL LIMITED WARRANTY INFORMATION DOORS, TRANSOMS, & SIDELIGHTS

LIMITATIONS & EXCLUSIONS

1. Unsatisfactory service or appearance caused by failure to follow the "CARE, HANDLING, JOB FINISHING, AND INSTALLATION INSTRUCTIONS" set forth herein are excluded from this warranty.
2. The appearance of the finished doors, transoms, and/or sidelights is excluded from this warranty.
3. Natural variations in the color or texture of wood are not to be considered defects.
4. All of the following doors, transoms, and/or sidelights are excluded from this warranty:
 - (a) 1 3/8" thick doors and/or sidelights which are wider than 3'0" or higher than 7'0".
 - (b) 1 3/4" thick doors and/or sidelights which are wider than 3'6" or higher than 8'0".
 - (c) Stile & rail construction doors, transoms, and/or sidelights whose stiles do not exceed 5" in width
 - (d) Doors that are improperly hung or do not swing freely.
 - (e) Hardwood doors, transoms, and/or sidelights, except mahogany, white oak, fir, or cypress, used in exterior applications.
 - (f) Doors, transoms, and/or sidelights shipped outside the contiguous 48 United States and District of Columbia.
5. Any implied warranty shall be limited in duration to the period of this warranty and to the remedies specified herein.
6. We shall not be liable for any units repaired, returned or replaced without our prior written consent.



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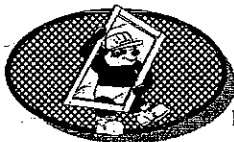


~ CUSTOM DOOR CARE, HANDLING, JOB FINISHING & INSTALLATION ~

CARE, HANDLING, JOB FINISHING & INSTALLATION INSTRUCTIONS:

General: It is the nature of wood to expand and contract with changes in moisture content. Generally, steps that minimize changes in moisture content will minimize door, transom, and/or sidelight problems.

1. Upon receipt of shipment, inspect each door, transom, and/or sidelight for any visible defects. Store unit(s) in closed-in building with operational HVAC system. Unit(s) should be stored flat on a level surface. Cover to keep clean, but allow air circulation. Do not store in direct sunlight. Seal at earliest possible moment. Edge sealing is particularly important. Units must be sealed with a non-water based sealer or primer.
2. Handle with clean gloves and do not drag units across one another or across other surfaces.
3. Doors, transoms, and/or sidelights, should not be exposed to: excessive heat, excessive dryness, humid conditions or sudden changes therein. They should be conditioned to average prevailing relative humidity of the locality before installation. Relative humidity should not be less than 25% nor more than 55%.
4. The utility or structural strength of any door must not be impaired in the fitting of the door, the application of the hardware, or cutting and altering the doors for lights, louvers, panels or any other special details.
5. Before finishing, remove handling marks or effects of exposure to moisture with a thorough, final sanding over all surfaces of the unit(s) using 120 and 150 grit sandpaper and clean before applying sealer or finish. Some species of wood (oak particularly) may react unfavorably with certain finishes. Where possible, the surface should be tested for such unfavorable reactions.
6. Immediately after cutting and fitting, but before installation, the entire unit, **INCLUDING TOP AND BOTTOM EDGES**, must receive a minimum application of sealer or primer and two coats of a good grade of paint, varnish, or lacquer. The total finishing system should have good moisture excluding properties. Avoid dark stains or dark colored paints on unit surface exposed directly to sunlight. A first coat of a thinned clear sanding sealer, followed by light block sanding, will minimize subsequent handling marks and promote the uniformity of subsequent stain coats. Exterior finishes must be used on exterior doors, transoms, and/or sidelights.

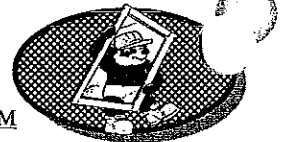


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~ CUSTOM DOOR CARE, HANDLING, JOB FINISHING & INSTALLATION ~

**NOTICE TO INSTALLER:
DO NOT CUT UNIT(S) WITHOUT READING THESE INSTRUCTIONS**

1. Inspect unit(s) for any noticeable defects. Sight edges to see unit(s) are straight and in case of a pair, match and fit together evenly. **DO NOT INSTALL UNIT(S) WITH DEFECTS - REPORT TO BLUMER & STANTON.**
2. Allow unit(s) to become acclimated to finished building heat and humidity before fitting and hanging.
3. Jambs / frames must be plumb to assure proper alignment of both stiles (or centerline of a pair).
4. Trim unit(s) evenly with maximum of 3/4" off bottom and top of most units unless accommodated by additional blocking. Trim sides no more than 1/2". See Fire Door Requirements (following) for special fitting instructions on rated doors. **CUTTING INTO THE MORTISE AND TENON JOINT WILL VOID WARRANTY.**
5. Threaded-to-the-head wood screws are preferable for fastening all hardware on non-rated doors and required on all rated doors. Pilot holes must be drilled for all screws to avoid splitting.
6. Seal unit(s) prior to installation. All edges of unit(s) must be sealed including top and bottom edges. **WARRANTY IS VOID IF ALL SIX EDGES ARE NOT SEALED IMMEDIATELY AFTER FITTING.**
7. Use two hinges for doors up to 60" in height, three hinges for doors up to 90" in height, and an additional hinge for every additional 30" of door height or portion thereof. Be sure hinges are set in straight line to prevent distortion.
8. In mortising for locks, care must be taken not to impair the structural strength or integrity of the lock rail to stile mortise and tenon joint.

FIRE DOOR REQUIREMENTS:

Install doors as required by NFPA Pamphlet 80. Core reinforcements can be specified to permit hardware to be surface mounted with screws. Labels shall not be removed from fire-rated doors.

PREPARATION OF RATED DOORS

Preparation of rated doors must be done under label service in accordance with the manufacturer's service procedure. This includes trimming for size except a maximum of 3/4" off the bottom of the door. Preparation of locks, latches, hinges, closers, lights, louvers, astragals, and any fabrication must be done under licensed label service.



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