

Elegance



NEW
BRED

WELCOME

STEWART BRANNEN MILLWORK

Welcome to Stewart Brannen Millwork Company's latest door selection. It is full of new designs and details. Our product line has been expanded to include architecturally correct details from Colonial America to Historic Tuscany. We have tried to lay out this catalog in a manner which will help the homeowner and designer envision the desired appearance of the door units required and then use the details available so that the units can be built to fit your unique specifications. We have grouped the door units by their frame geometry and hope to show a wide range of products that can be tailored to fit each frame shape. All products are built to order, with our sales staff working closely with your salesman and designer. Dimensioned drawings will be submitted for your approval. We understand the difficulty of trying to make so many decisions when building or remodeling and hope this catalog can help walk you through the door specifying process.

Since the adoption of the International Building Code in the southeastern states, we have been the leader in testing custom door units for structural and impact ratings. We have spent many hours in independent laboratories testing our door units, and we have learned many lessons from this experience. The building code requires door units to be tested because all components of the door units are very important to withstand the forces that could be applied to the opening in your home during a storm situation. The door, glass, sealant, frame, and hardware all are major factors in achieving design pressure ratings. We have test reports for all of our products we offer as rated units. The test reports list all components used in the manufacturing of our products down to the number and size of the screws. The little details matter when buying and installing rated units and you should get the security you are paying for. We do not think you should have to accept a product based on someone's opinion that it will meet code requirements. Without actual testing of all components, you do not have the data required to do engineering rational analyses.

Door hardware is a very important component in receiving high design pressure ratings. This is particularly important on double door units where all the force is being applied to where one door locks to the other. Typical off the shelf decorative surface bolts will simply not perform adequately. Solid brass is very weak and must be reinforced with special keepers. Large screws which can penetrate into the framing are required. We understand that the appearance of your hardware is very important, and certain architectural styles require hardware that is no longer commonly available. We have located a custom hardware supplier in France who will be able to provide beautiful, but strong, solutions to your hardware needs. We do not believe in taking chances with your possessions.



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Mankind has been fascinated with wood as a building material for thousands of years. Wood is nature's renewable resource. In fact, in the USA we have more wood growing every year than the year before for the past century. Relatively light weight and easily shaped, wood allows us to build a wide array of products which serve both utilitarian and artistic needs. Doors were one of the first items made by man of wood, and wood doors provide both security and beauty. Each board has its own characteristics formed by the tree from which it once was a part of. The wide variety of different species of trees provides us with wood of different colors, grain patterns, and textures. Each species has characteristics capable of changing both the décor and mood of a location. There is no other building material better suited for custom doors, but wood has properties that the craftsman and the homeowner need to be aware of.

Although wood is stable as temperature changes, wood's reaction to changing relative humidity (RH) conditions is critically important. As the RH increases, wood absorbs moisture and with this absorption comes swelling. Conversely, as the RH decreases, moisture is lost and the wood shrinks. Experience shows that a change in humidity of roughly 10% RH can result in a 1% size change across the grain; on the other hand, wood seldom shrinks or swells lengthwise. Owners of wood decks can easily see the effects of moisture during dry weather, cracks develop between the deck boards, but during wet weather these cracks can close. There is no practical way to stabilize wood and protect it fully from expected humidity changes.

Changes in humidity, which occur naturally throughout the year, affect wood doors, but they can be well buffered by using a moisture resistant finish, such as three coats of marine spar varnish. Humidity can be absorbed by the wood fairly well if the change in humidity is slow, taking weeks or months. Rapid changes, however, can result in excessive swelling and shrinking that may be evidenced as warping or cracking. Most wood products are designed to accommodate the annual changes in humidity in a heated and air conditioned home or office. Unusual humidity conditions, including exposure to liquid water, must be avoided to prevent the risk of poor performance.

In addition to vapor resistant finishes, plywood has only 5% to 10% of the shrinkage of solid wood. This greatly reduced shrinkage is a result of having the grain at 90 degrees in adjacent layers; that is, individual veneer pieces will shrink in width but not in length, so by alternating the grain in each layer, the lack of lengthwise shrinkage in one layer restricts the across-the-grain shrinkage in the adjacent layers. Using plywood in areas that are large but must remain flat when the humidity changes, is therefore essential.

There are special concerns when wood products are stored in an uncontrolled environment prior to be placed in use. Wood products can be manufactured at the same moisture content that they will achieve in use, which will minimize any moisture size change issues. However, after the manufacturing process if the wood products are stored at higher moisture conditions, the wood will gain moisture and change dimension, unless they are well wrapped in plastic. Then, when the products are installed and the heat or a/c is eventually turned on, the typical humidity is achieved, causing the wood to quickly dry out and potentially shrink excessively. (Wrapped products, without holes in the wrap, protected from rain or other liquid water, will not change moisture content in storage for many months.) It is best to avoid humid storage; it is critical to maintain the integrity of any plastic wraps until the finish is applied.



We value your business. We want to help make your dreams come true. We have years of experience in building doors in this area. We feel we know what will work and what will not, and we will inform you if we think something about your project may cause you problems. We are grateful for your consideration of us in your project.

We have engineered our doors to maximize the beauty of wood while working with the natural properties of wood. We are a regional company and we engineer our doors for our region. Stile and rail doors have been around for centuries. This design limits the widths of the components making up the perimeter of the door, which minimizes expansion and contraction due to changes in the moisture content of the wood. Panels, which fit in grooves machined into the stiles and rails, are undersized to allow for movement. All stile and rail doors are built this way, but each regional weather environment requires adjustments to be made for local conditions.

Our doors are built using CNC (Computer Numeric Controlled) routers. We use CNC because all of our products are custom made to order. There are many different machine setups to be made for all of our products, and a human cannot match the tolerances of the CNC machine. Our parts are first machined on the routers because they are extremely accurate and allow for complex machining to be done to the wood parts very safely. The parts are then inspected and assembled by hand. The assembled doors are then put back on the router to be sized for the door frame, and all hardware prep is done. This gives us a product where the completed door is accurate to within a few thousandths of an inch. The door frames are also machined on the router to match the doors. Our product has never been better than it is today. The technology we have implemented enables us to produce products more accurately than we ever could before and it allows us do things we were unable do earlier. Today's technology allows us to be better craftsmen and no compromises are ever made.

Our door stiles are engineered to remain straight while having 1/8" laminates on the faces for long lasting durability. We saw our own laminates out of individually selected boards. The stile edges are very thick to allow for trimming of the door, and the core material is selected for uniform strength. In an environment where the humidity is constantly changing, internal tension in a long piece of lumber may cause the piece to warp. This is why we do not use solid stiles.

Our exterior doors feature our exclusive rimmed panels. Our rimmed panels have matching wood edges applied to the perimeter of an exterior plywood panel. The miters of these edges feature a hidden finger joint which keeps the joint from separating. These edges are glued and clamped around the plywood core, then an 1/8" matching laminate face is pressed on to the face with Type I exterior adhesives. The laminate faces are sawn from individual boards and kept together so all pieces will match. The panel is then machined and raised to fit into the door. This laborious process is done so that our exterior panels will have minimum expansion and contraction, and these panels cannot split or warp like conventional panels.

We are introducing our new Euro frames this year. They are available in both Inswing and Outswing configurations. These frames are designed for maximum resistance to water infiltration. They feature a dual seal weather-strip system with a built in drain incorporated into the sills. These frames are required by our warranty for door units which do not have adequate roof protection. They are the most sophisticated wood door frames on the market and will work with both multipoint and traditional door hardware.



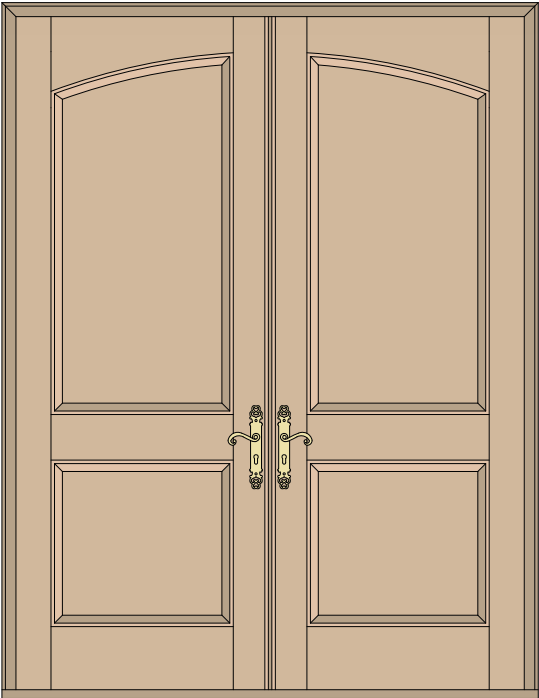
Small or large, we value each project for which we have the opportunity to build doors. We realize the uniqueness of each order. All of our doors are made to your specifications and are sized to fit your requirements. We hope to show you a wide range of styles to help you decide the perfect look for your home. We will start with rectangular openings which are the most cost efficient frame to use. Once the frame type is chosen, then you can decide the door style that is most appropriate.

Double doors are often the choice in many settings. From all panel to all glass, double doors are very versatile. The addition of a transom can add light to a foyer when used over panel doors, and can soften an opening. Sidelites can be added to double units when a wide expanse needs more glass area.



4-0 x 8-0, Dbl EDU with exterior Shutters. (Plantation)





6-0 x 8-0, Dbl EDU



6-0 x 8-0, Dbl EDU



6-0 x 8-0, Dbl EDU



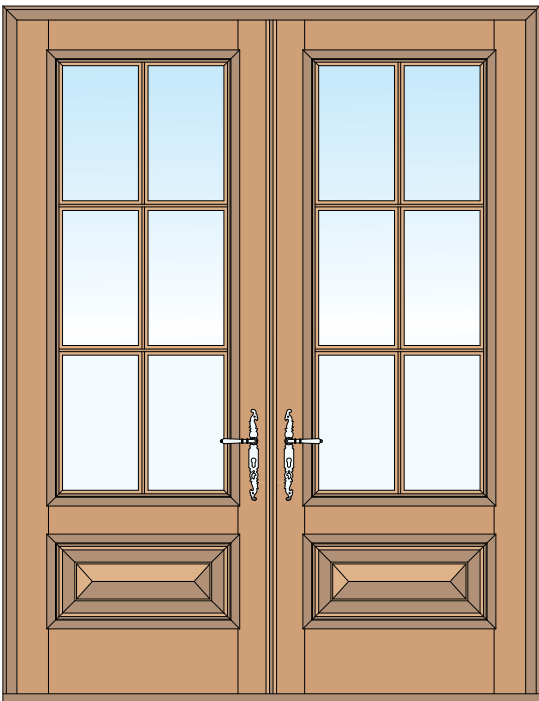
6-0 x 8-0, Dbl EDU



6-0 x 8-0, Dbl EDU



6-0 x 8-0, Dbl EDU



6-0 x 8-0, Dbl EDU

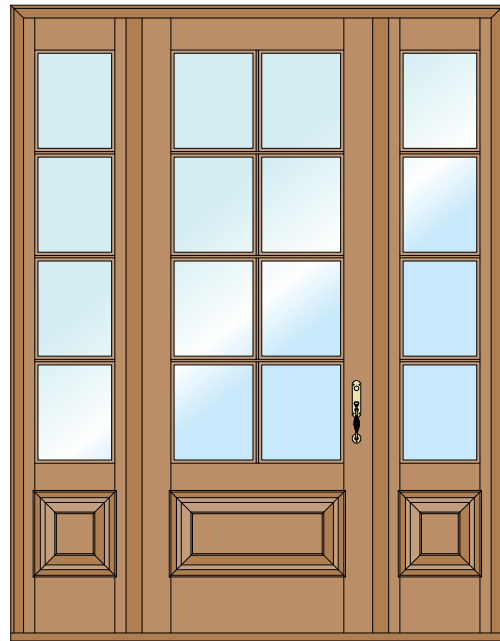


6-0 x 8-0, Dbl EDU

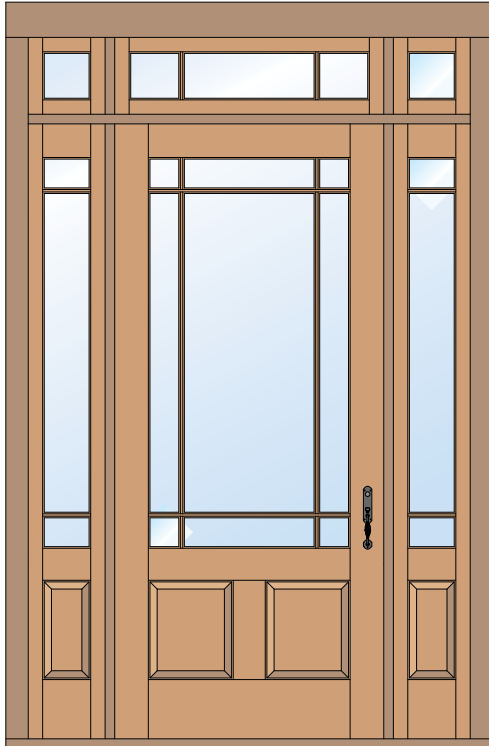




1-1 x 3 1/2" x 3-0 x 3 1/2" x 1-1 x 6-8, Sgl EDU with a 3 1/2" Head Mull and a 1-4 Transom.



1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0. Sgl EDU

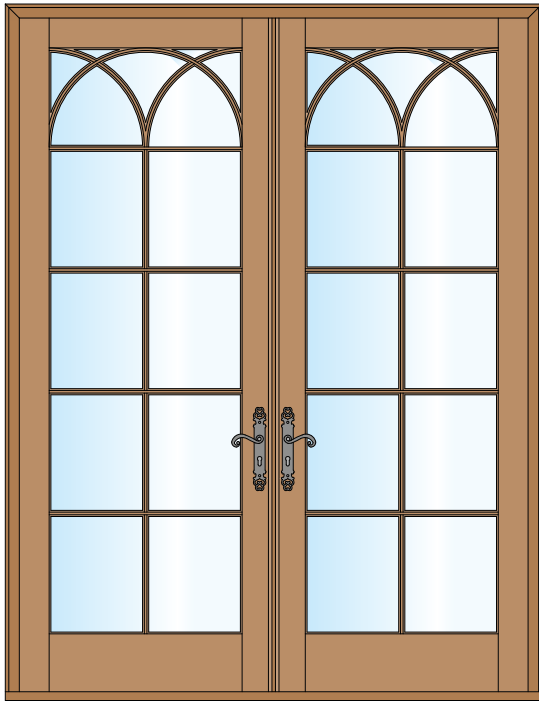


1-0 x 3-6 x 1-0 x 8-0, Sgl EDU with a 3pc 1-0 Transom.

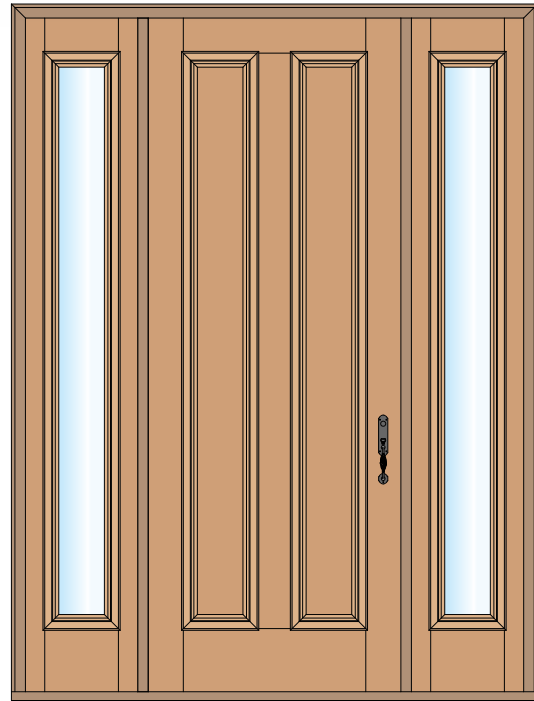


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU with a 2 1/2" Head Mull and a 1-2 1/2 Transom.

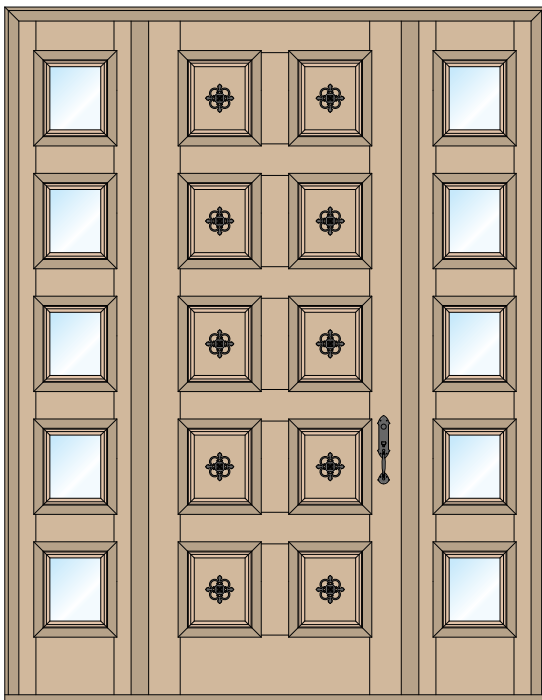




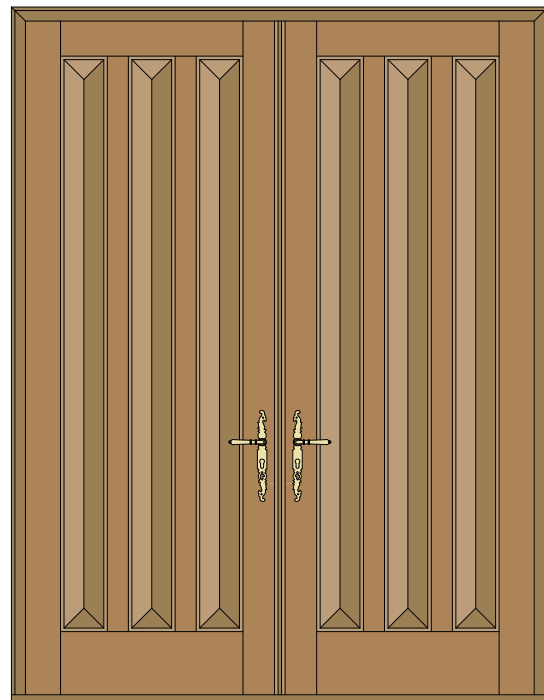
6-0 x 8-0, Dbl EDU



1-4 x 3-0 x 1-4 x 8-0, Sgl EDU

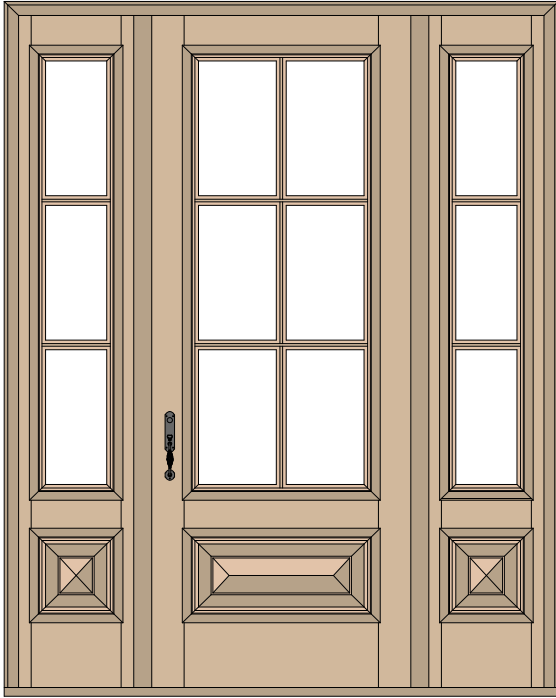


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU



6-0 x 8-0, Dbl EDU

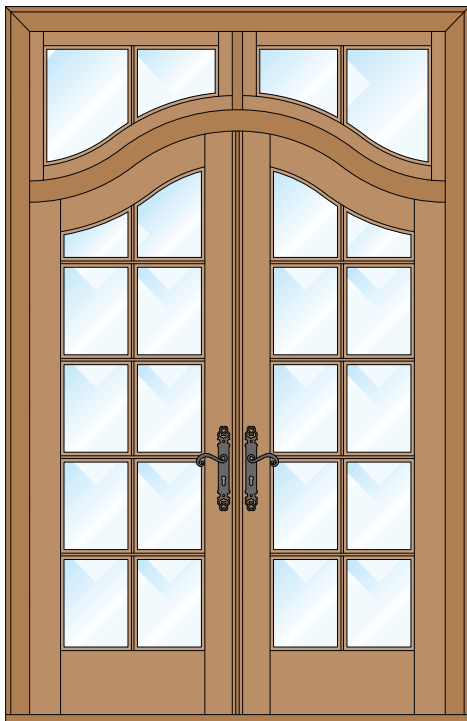




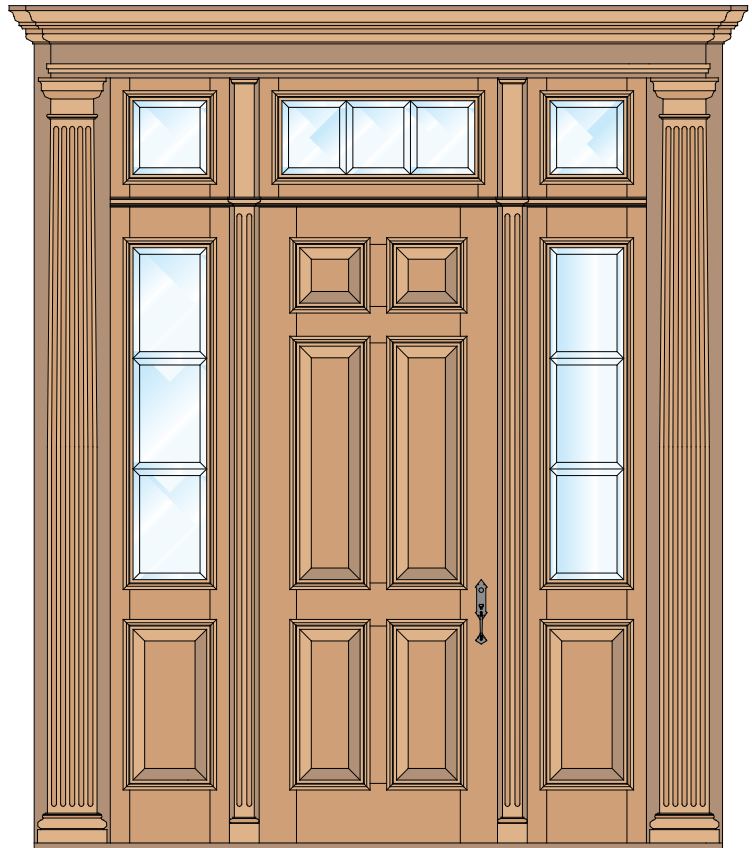
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU



5-0 x 8-0, Dbl EDU



5-0 x 6-10, Dbl Roman EDu with a 3" Head Mull and a 1-2 Transom.



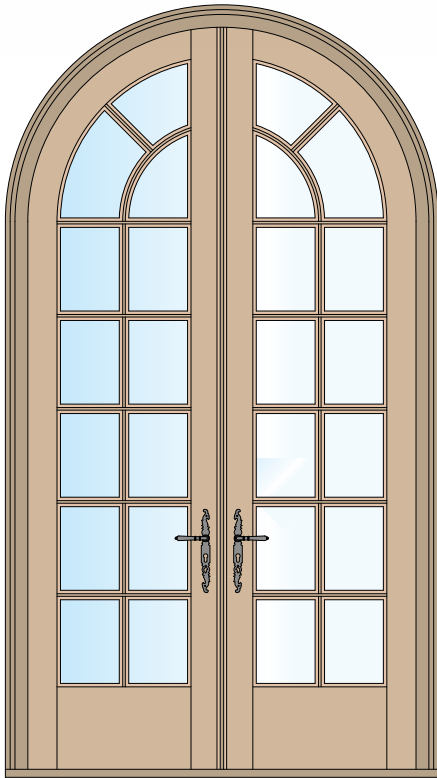
1-6 x 4 1/2" x 3-0 x 4 1/2" x 1-6 x 8-0, Sgl EDU with a 3pc 1-6 Transom.

Half Round Units are defined by a radius and a spring line with symmetry and balance as the result.



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 3-4 1/2" Half Round Transom.

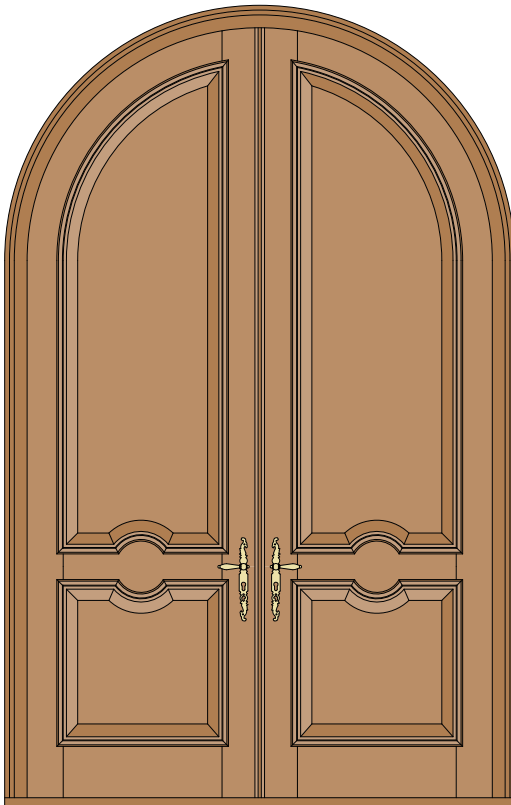




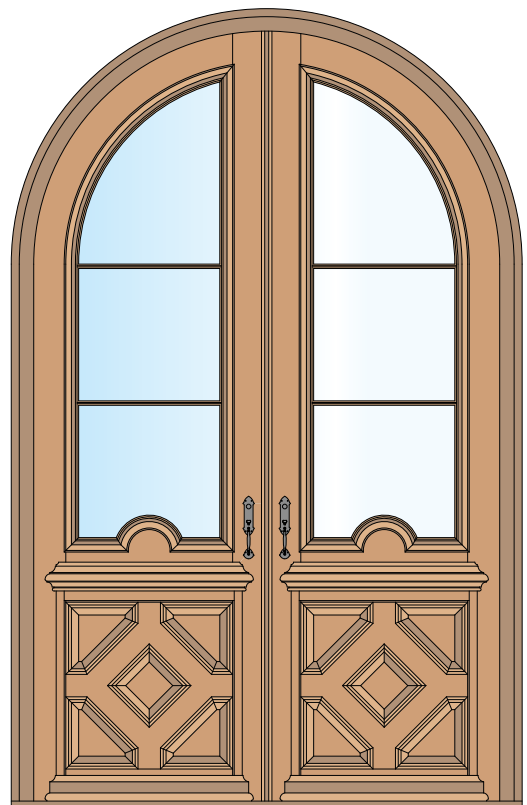
5-0 x 8-10, Dbl Half Round EDU.



5-0 x 8-10, Dbl Half Round EDU.

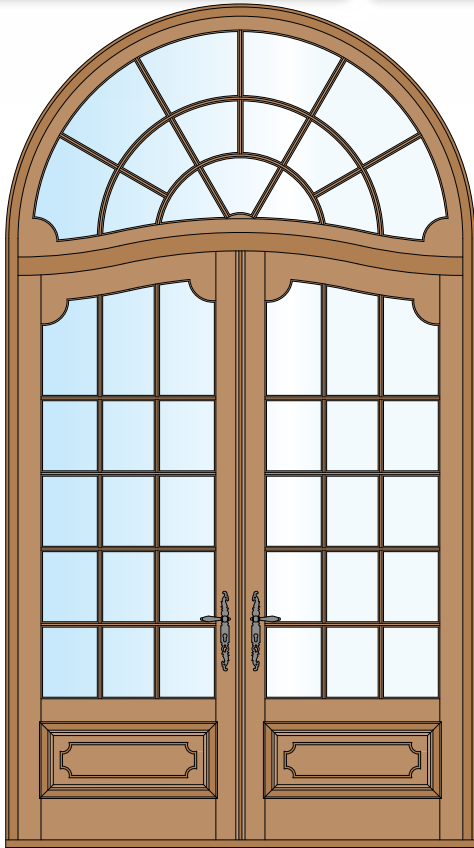


6-0 x 10-0, Dbl Half Round EDU.

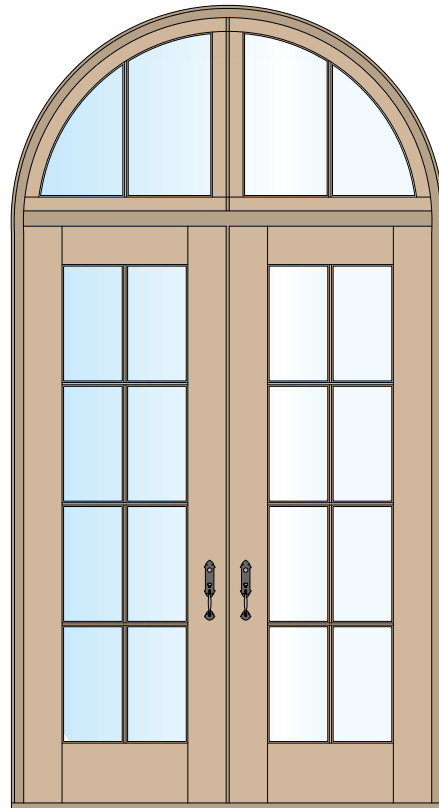


6-0 x 10-0, Dbl Half Round EDU.

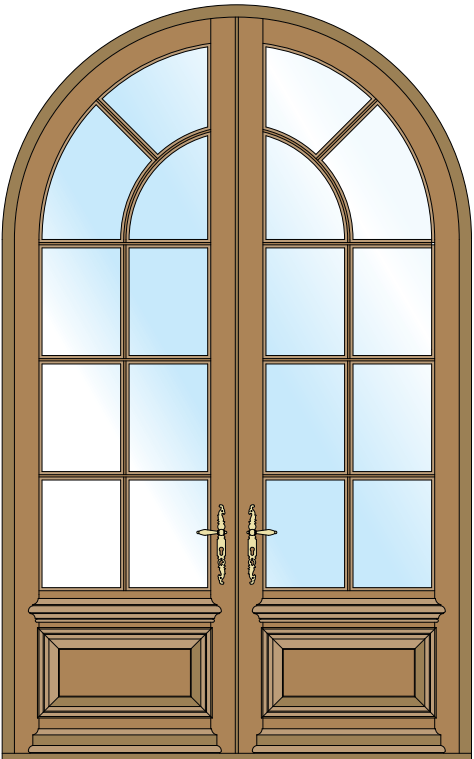




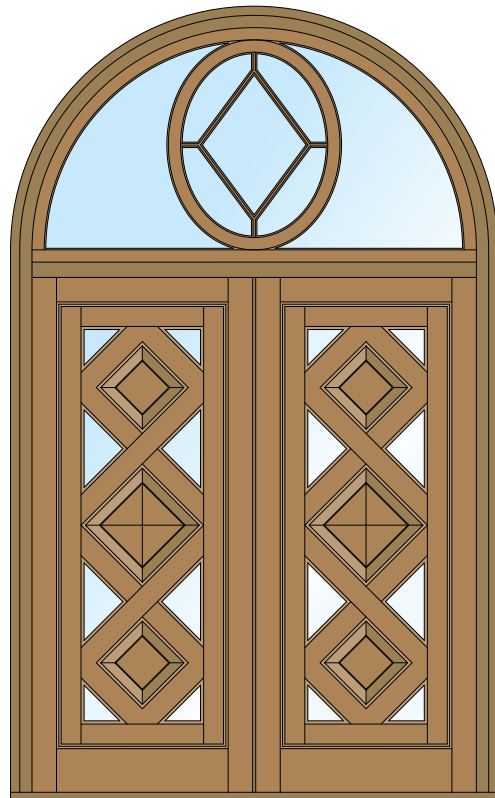
6-0 x 8-0, Dbl EDU with a 3" Head Mull and a 2-11 1/2" Half Round Transom.



5-6 x 7-10, Dbl EDU with a 2 1/2" Head Mull and a 2-7 1/2" Half Round Transom.

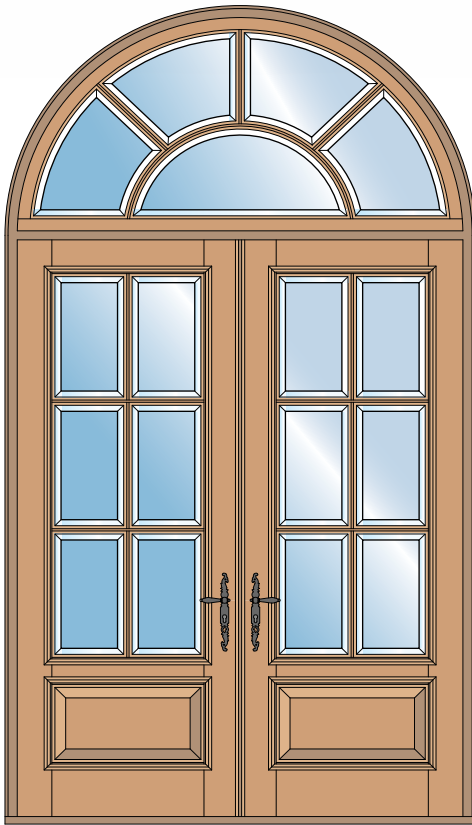


6-0 x 10-0, Dbl Half Round EDU. (SI 7109)

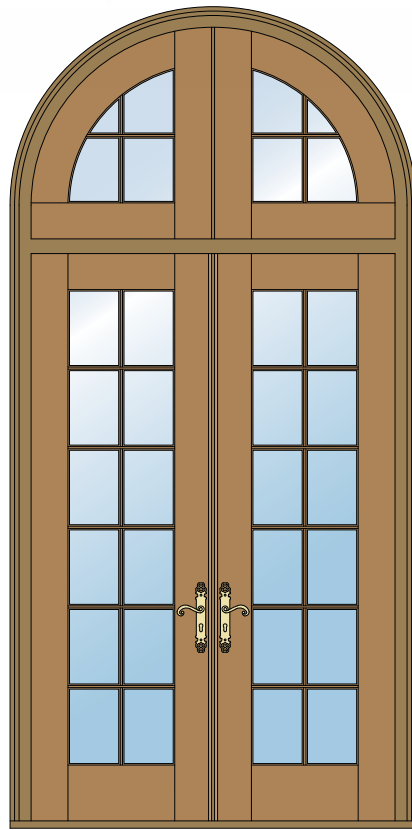


6-0 x 8-0 Dbl Half Round EDU with a 2 1/2' Head Mull and a 3-2 1/4 Half Round Transom.





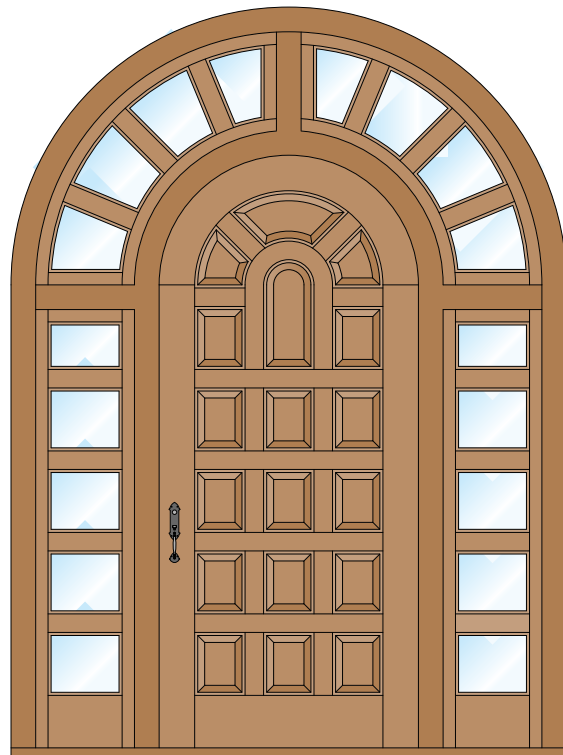
6-0 x 8-0, Dbl EDU with a 2-11 1/2 Half Round Transom.



5-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 3-0 Half Round Transom.



6-0 x 10-0, Dbl Half Round EDU.



1-4 x 4" x 3-6 x 4 " x 1-4 x 8-0, Sgl EDU with a 1-4 Wrap around 2pc Half Round Transom.





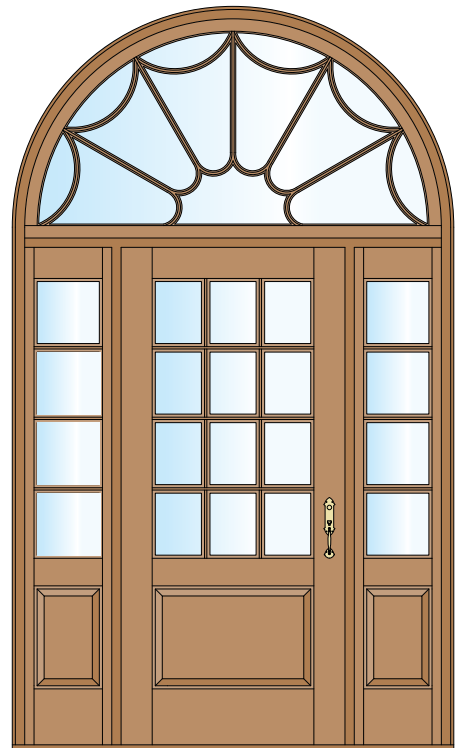
1-8 x 4" x 3-6 x 4" x 1-8 x 7-10, Sgl EDU with a 3pc 3-7 1/4 Half Round Transom.



1-1 x 4" x 3-4 x 4" x 1-1 x 8-0, Sgl EDU with a 3-2 1/4 Half Round Transom.



1-10 1/4 x 3-6 x 1-10 1/4 x 8-3, Sgl Half Round EDU.

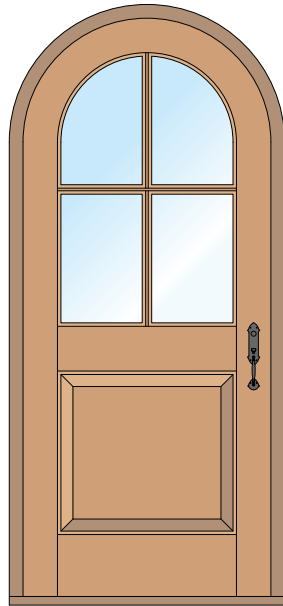


1-2 x 3-0 x 1-2 x 6-8, Sgl EDU with a 2-11 1/4 Half Round Transom.

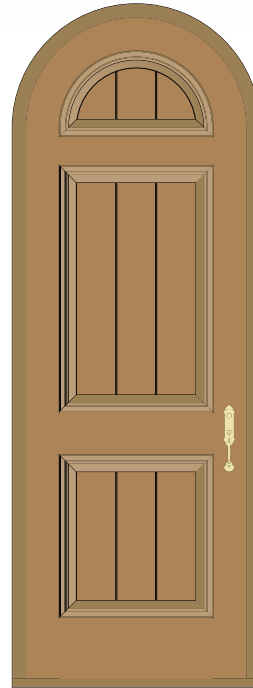




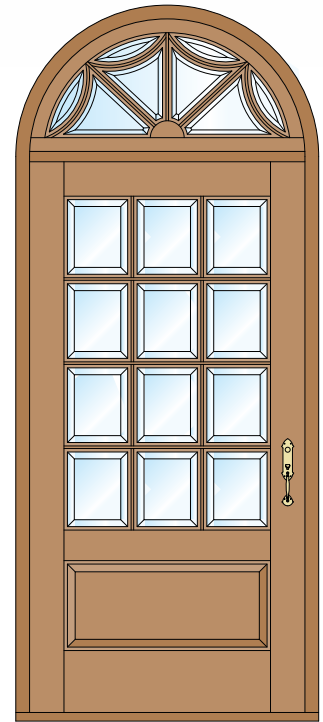
3-9 x 8-0, Sgl Half Round EDU.



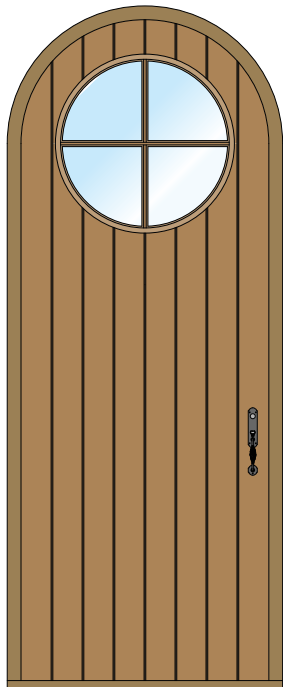
3-0 x 7-0, Sgl Half Round EDU



2-8 x 8-0, Sgl Half Round EDU



3-4 x 6-8. Sgl EDU with a 1-7 Half Round Transom.



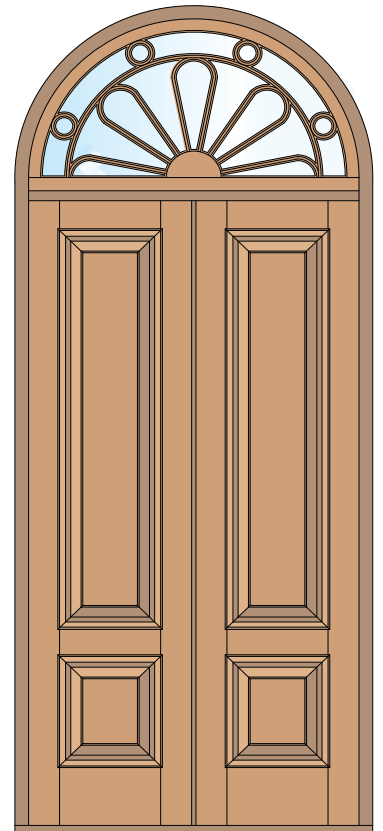
3-0 x 8-0, Sgl Half Round EDU



3-0 x 8-0, Sgl Half Round EDU



3-0 x 8-0, Sgl Half Round EDU



4-0 x 7-10, Sgl EDU with a 2-2 Half Round Transom.



Elliptical Units are brought to life through complex geometry, which is defined by a major axis, minor axis and a spring line, yielding a distinctive styling.

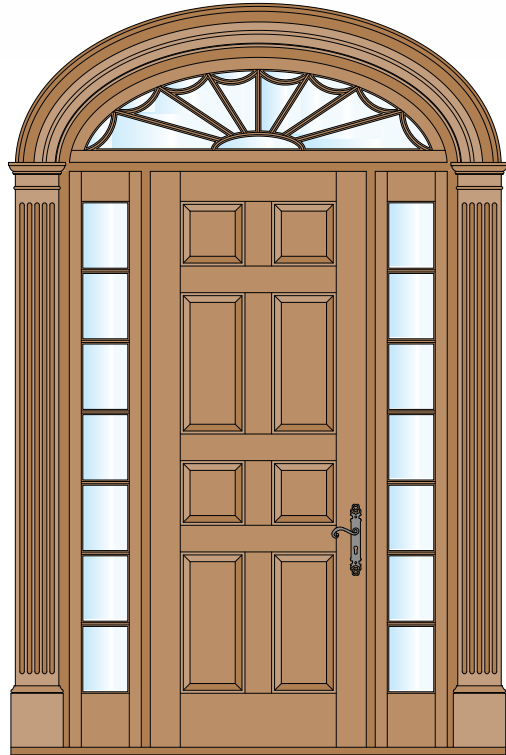


6-0 x 8.0 Dbl EDU with a 1-6 Elliptical Transom

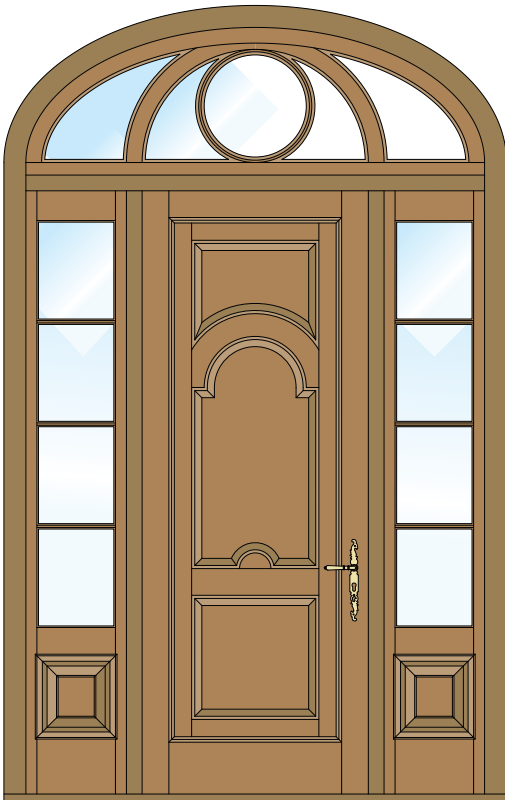




1-4 x 5 1/2" x 3-6 x 5 1/2" x 1-4 x 8-0, Sgl EDU with a 4" Head Mull and a 1-8 Elliptical Transom.



1-0 x 3-0 x 1-0 x 8-0, Sgl EDU with a 1-6 Elliptical Transom.



1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU with a 2 1/2" Head Mull and a 2-0 Elliptical Transom.



1-6 x 2 1/2" x 3-0 x 2 1/2" x 1-6 x 6-8, Sgl EDU with a 2 1/2" Head Mull and a 1-8 Elliptical Transom





1-2 x 5 1/2" x 3-0 x 5 1/2" x 1-2 x 6-8, Sgl EDU with a 3 1/2" Head Mull and a 1-6 Elliptical Transom.



1-4 x 3-0 x 1-4 x 6-8, Sgl EDU with a 1-10 Elliptical Transom.

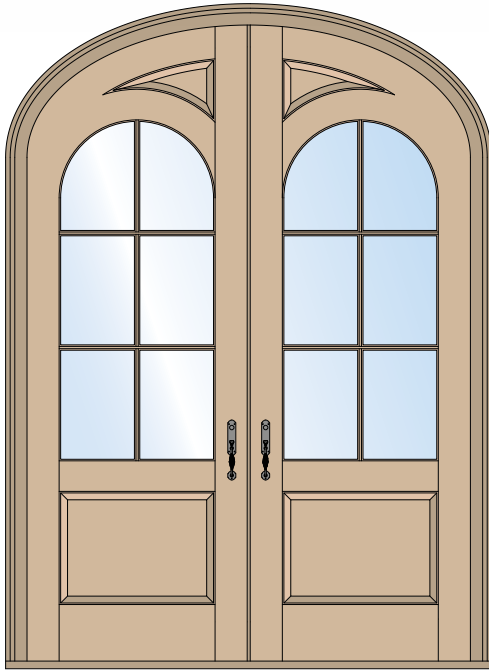


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU with a 2 1/2" Head Mull and a 1-6 Elliptical Transom.



1-6 x 6" x 3-0 x 6" x 1-6 x 6-8, Sgl EDU with a 2 1/2" Head Mull and a 2-0 Transom.

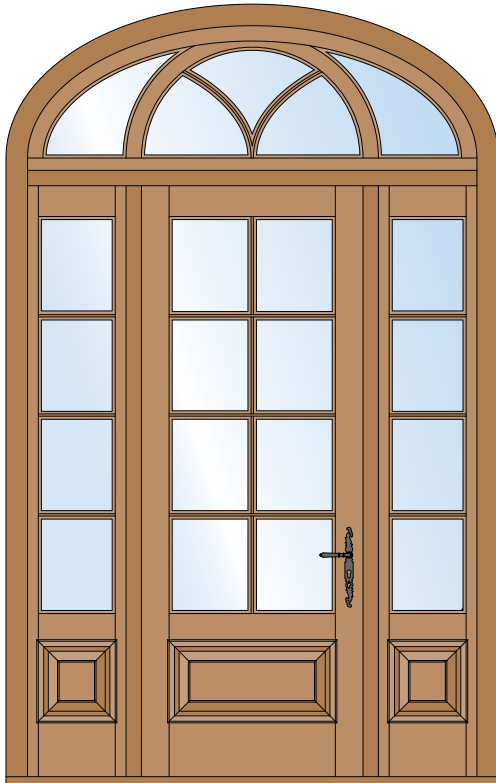




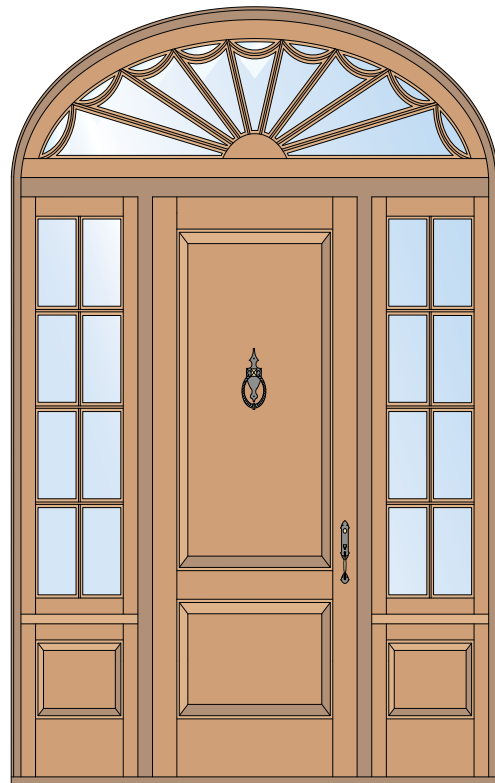
6-0 x 8-2, Dbl Elliptical EDU.



6-0 x 8-2, Dbl Elliptical EDU.

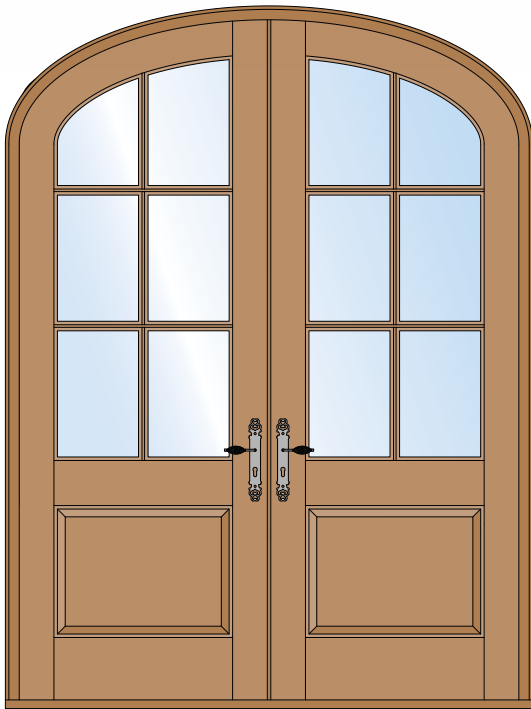


1-10 x 4" x 3-0 x 4" x 1-10 x 8-0, Sgl EDU with a 4" Head Mull and a 3pc 2-3 Elliptical Transom.

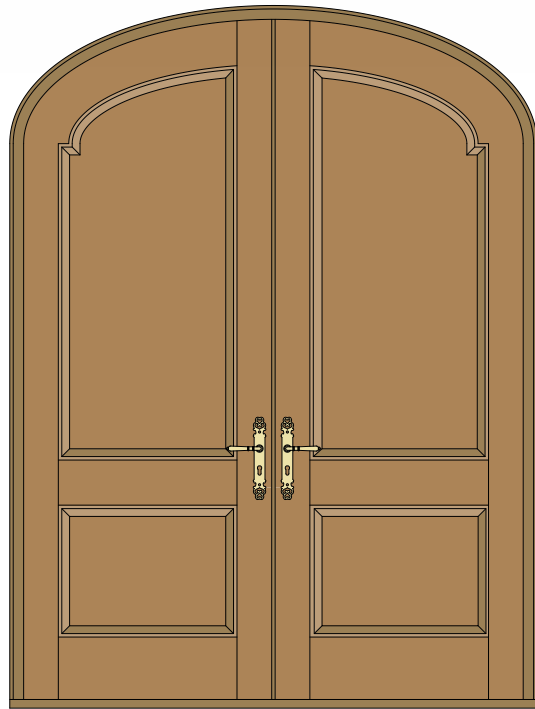


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU with a 2 1/2" Head Mull and a 2-0 Transom.

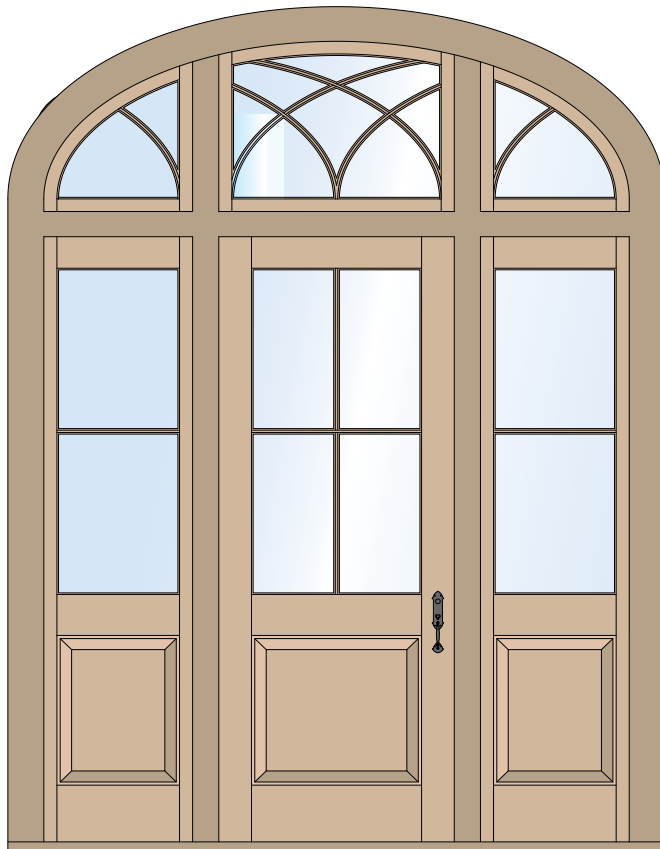




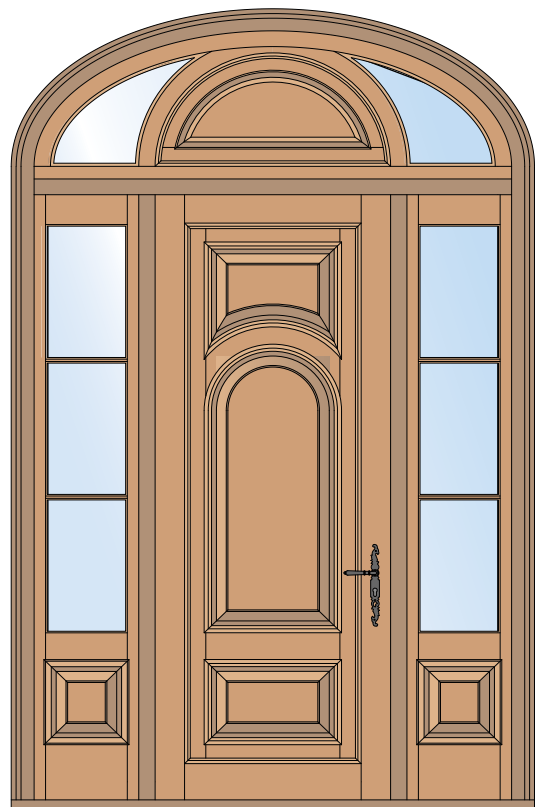
6-0 x 8-8, Dbl Elliptical EDU.



6-0 x 8-0, Dbl EDU.



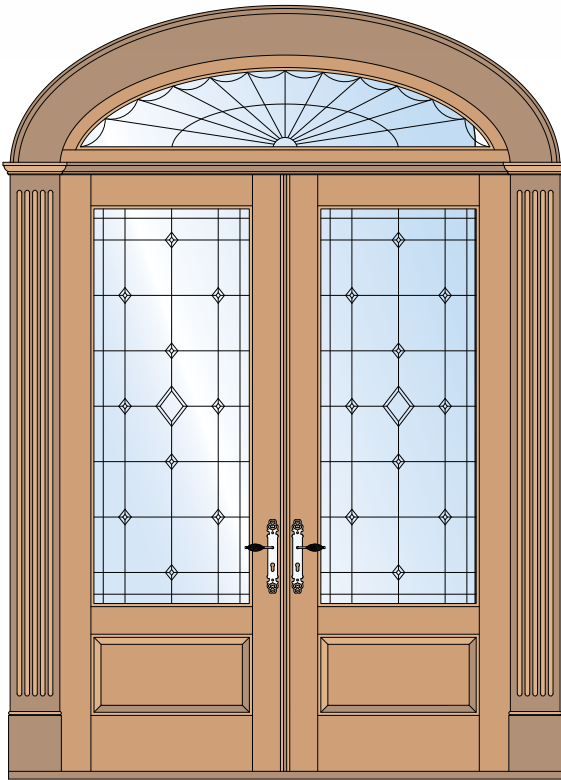
1-10 3/4 x 4" x 3-0 x 4" x 1-10 3/4 x 8-0, Sgl EDU with a 4" Head Mull and a 3pc 2-3 Transom.



1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Sgl EDU with a 2 1/2" Head Mull and a 1-11 Elliptical Transom.



STEWART BRANNEN
MILLWORKS



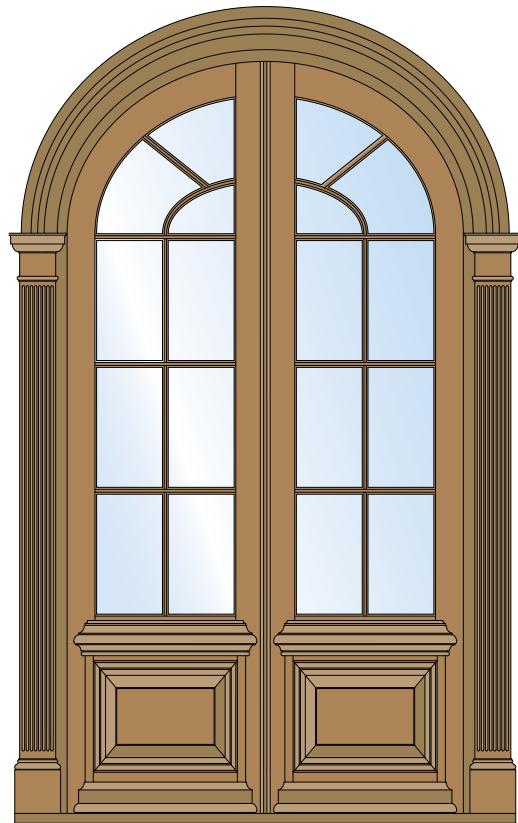
6-0 x 8-0, Dbl EDU with a 1-5 Elliptical Transom.



1-3 x 2 1/2" x 3-0 x 2 1/2" x 1-3 x 8-0, Sgl EDU with a 1-9 Elliptical Transom.



6-0 x 8-0, Dbl EDU with a 1-6 Elliptical Transom.



5-0 x 8-0, Dbl Elliptical EDU.

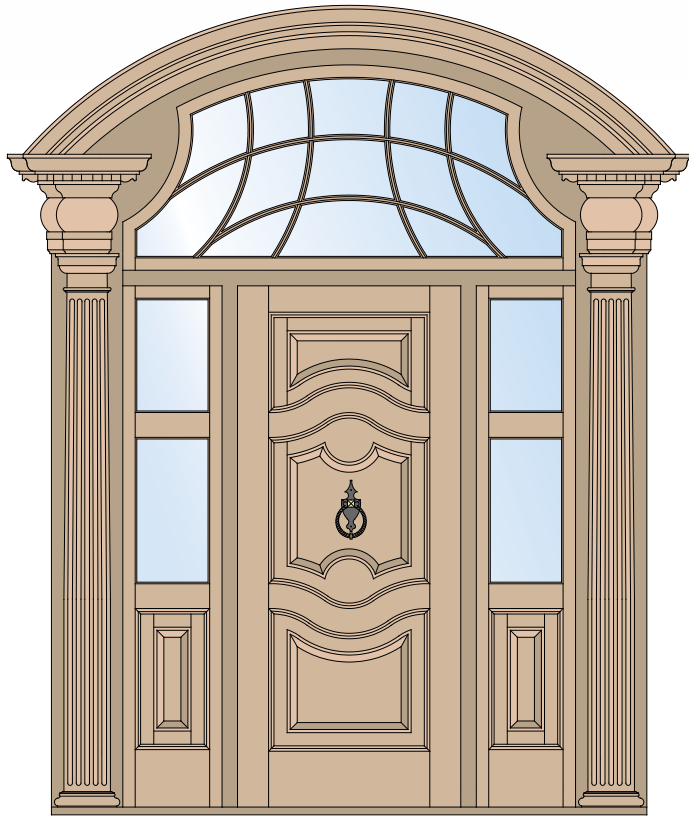


Segment Units use a radius, a width, and a spring line as a recipe for grace when only a slight arc is desired.

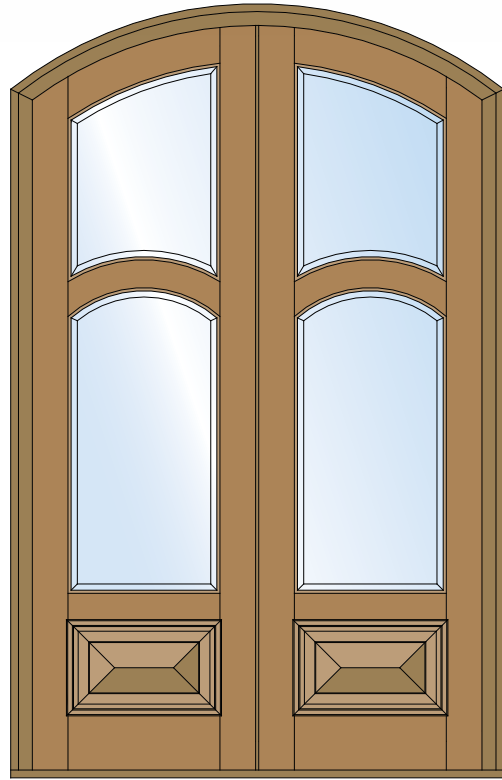


6-0 x 8-8, Dbl Segment Top EDU.





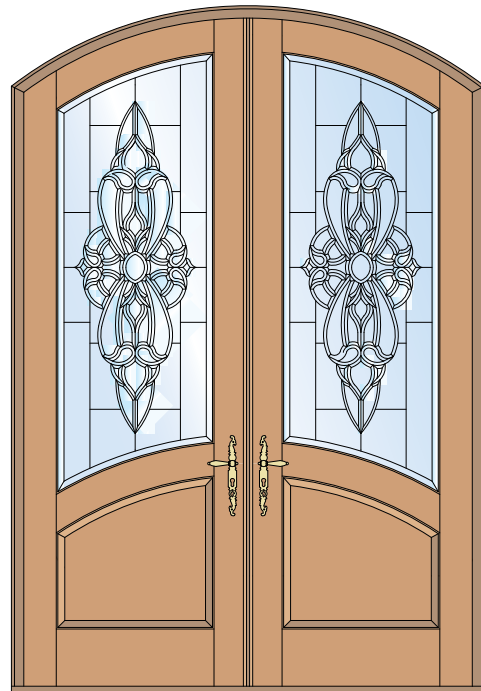
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 7-0, Sgl EDU with a 2 1/2" Head Mull and a 2-9 Custom Segment Transom.



6-0 x 10-0, Dbl Segment Top EDU.

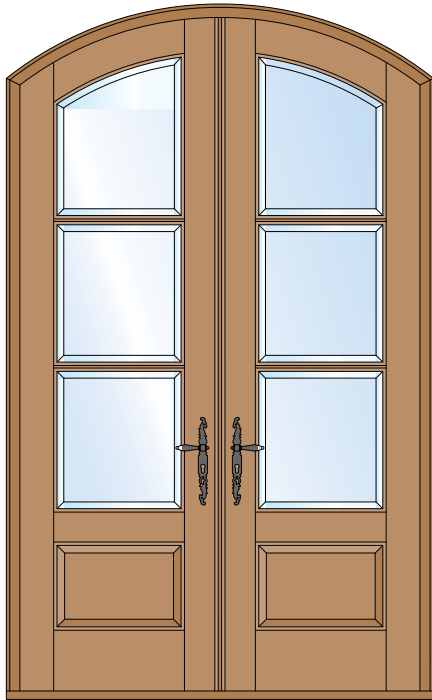


1-4 x 2 1/2" x 3-6 x 2 1/2" x 1-4 x 8-10, Dbl Segment Top EDU.

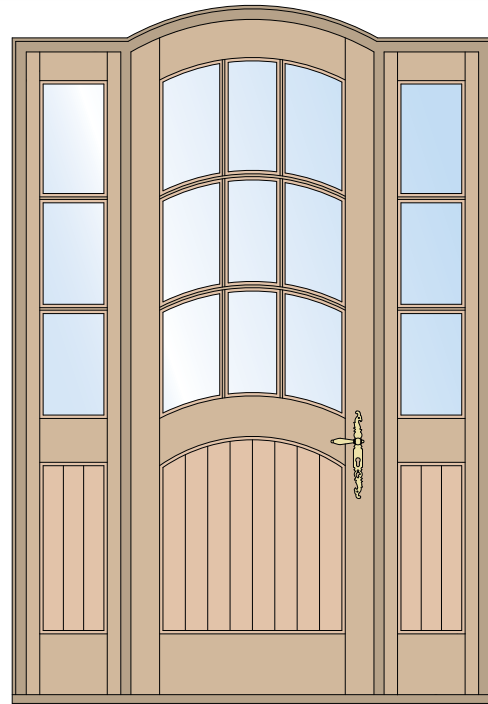


1-4 x 3-0 x 1-4 x 8-0, Sgl Segment Top EDU.





5-0 x 8-4, Dbl Segment Top EDU.



1-2 x 3-0 x 1-2 x 8-4, Sgl Segment Top EDU.

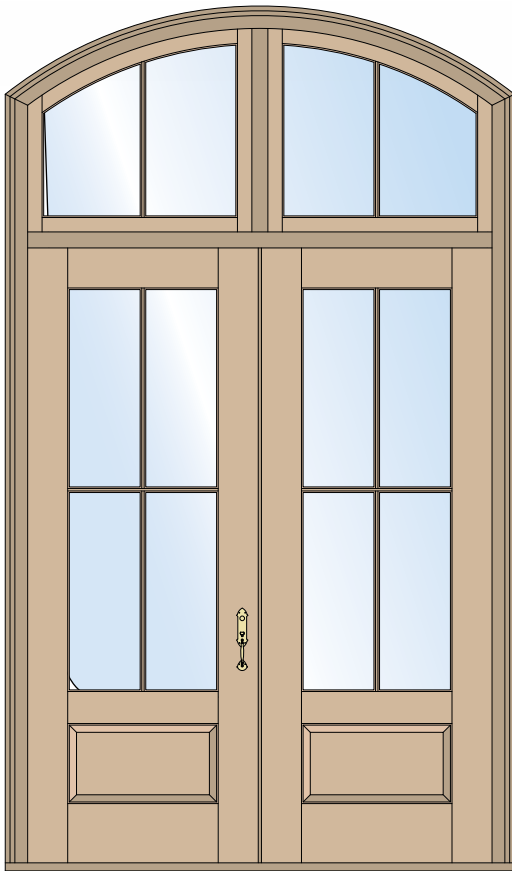


5-0 x 8-4, Dbl Segment Top EDU.

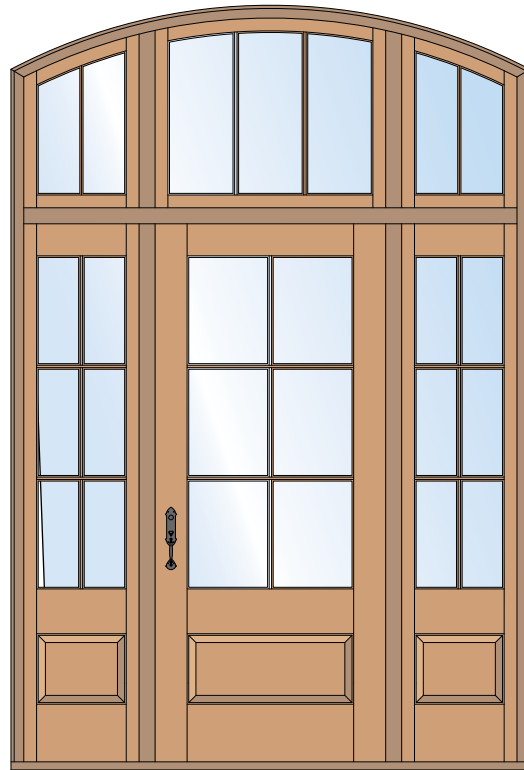


6-0 x 8-0, Dbl Segment Top EDU.





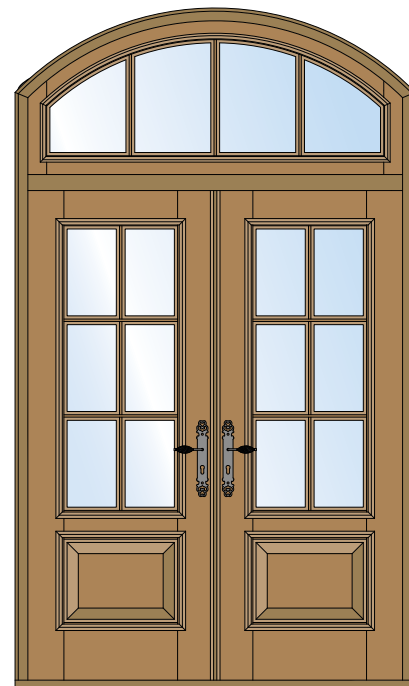
6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2pc 2-8 Segment Top Transom.



1-6 x 2 1/2" x 3-0 x 2 1/2" x 1-6 x 7-0, Sgl EDU with a 2 1/2" Head Mull and a 3pc 2-6 Segment Top Transom.

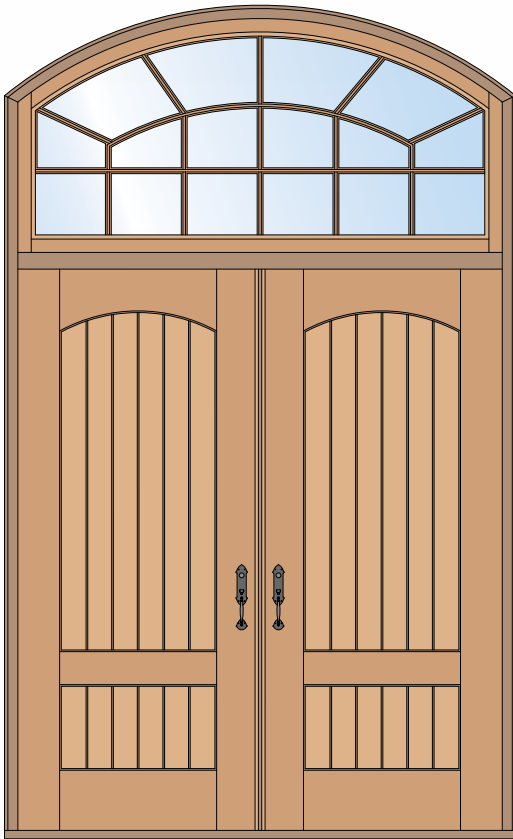


1-2 x 2 1/2" x 6-0 x 2 1/2" x 1-2 x 8-0, Dbl Segment Top EDU.



4-10 x 6-4 1/2, Dbl EDU with a 2 1/2" Head Mull and a 2-0 Segment top Transom.

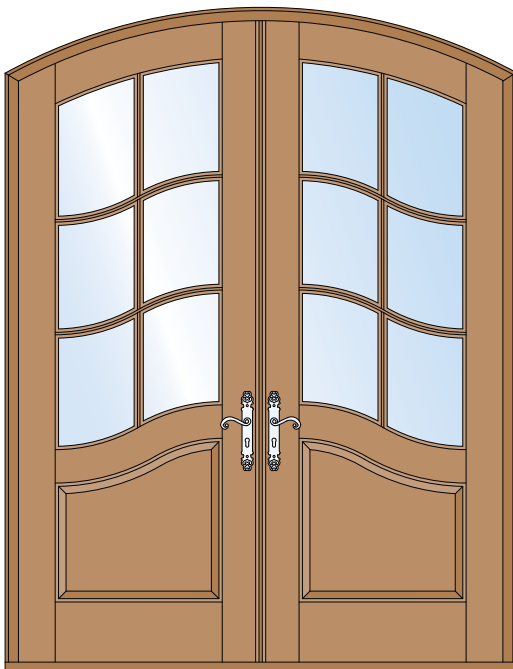




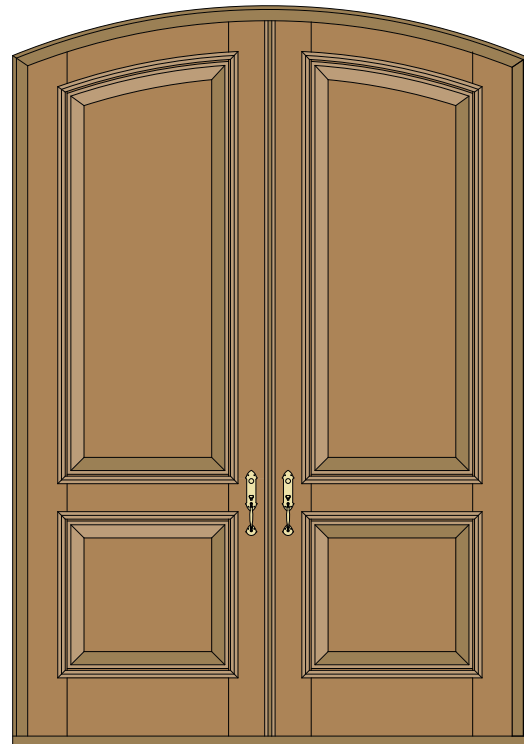
6-0 x 7-0, Dbl EDU with a 2-11
Segment Top Transom.



6-0 x 8-0, Dbl Segment Top EDU.

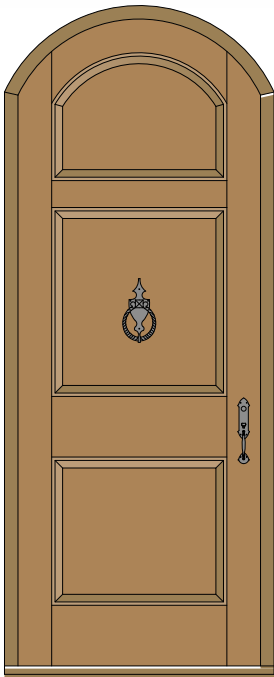


6-0 x 8-0. Dbl Segment Top EDU.



6-0 x 9-0, Dbl Segment Top EDU.

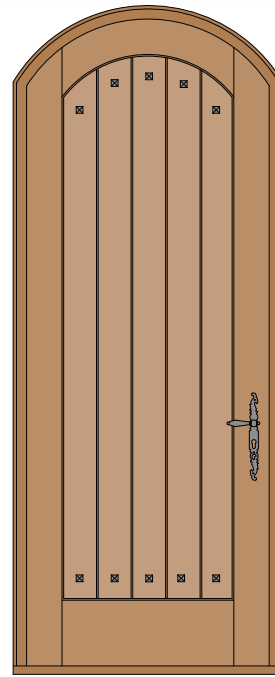




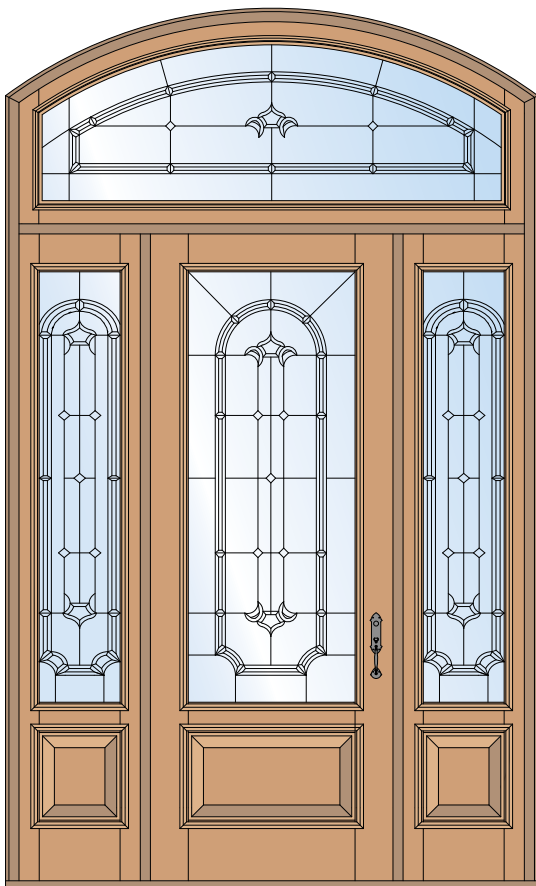
3-0 x 8-0, Sgl Segment Top EDU



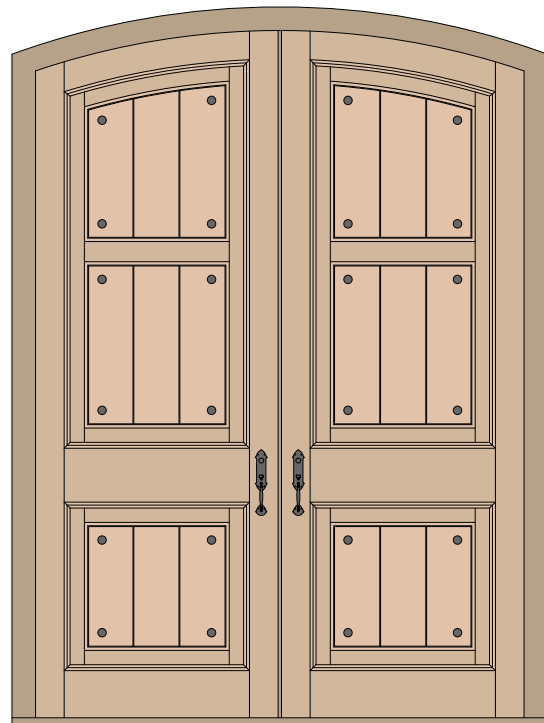
3-0 x 8-0, Sgl Segment Top EDU



3-0 x 8-0, Sgl Segment Top EDU



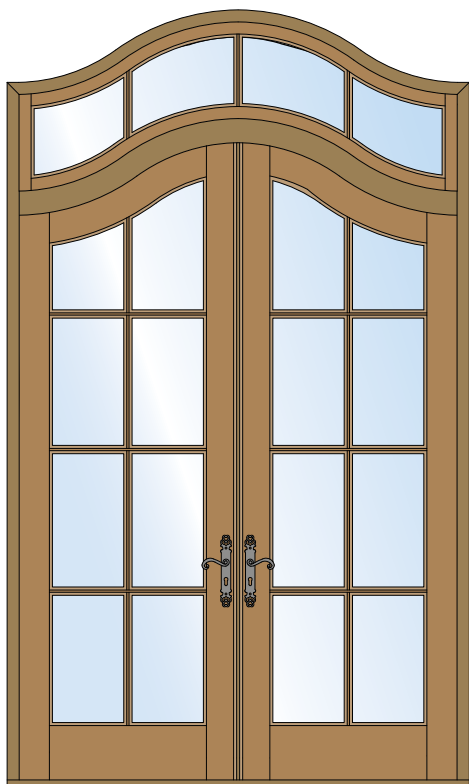
1-6 x 3-0 x 1-6 x 8-0, Sgl EDU with
a 2-6 Segment Top.



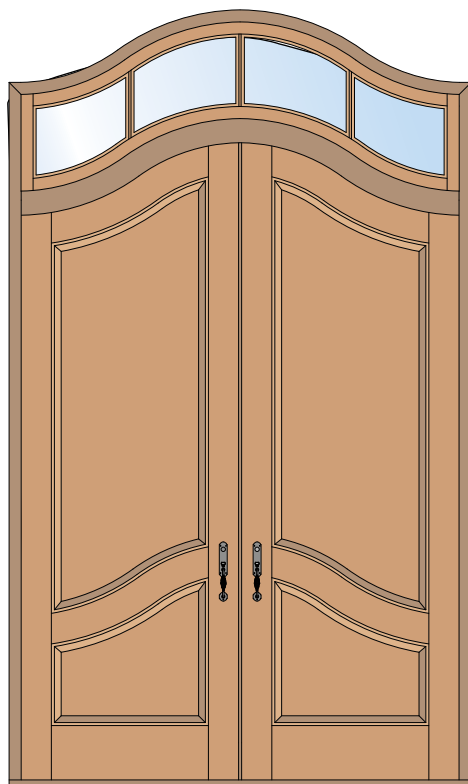
6-0 x 8-6, Dbl Segment Top EDU.



Roman Ogee units create a unique shape by reversing the arcs through a radius, a spring line, and a height.



6-0 x 8-0, Dbl EDU with a 4" Head Mull and a 1-4 Roman Transom.



6-0 x 8-0, Dbl EDU with a 4" Head Mull and a 1-4 Roman Transom.



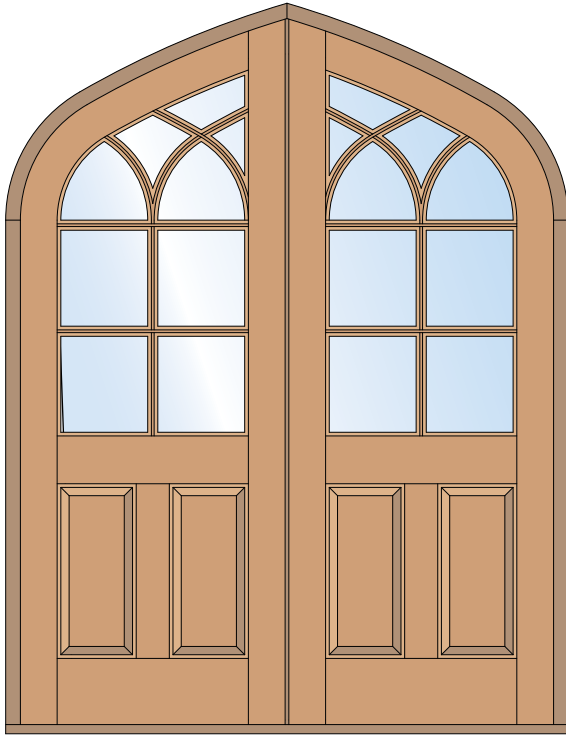
6-0 x 8-0, Dbl Top EDU.



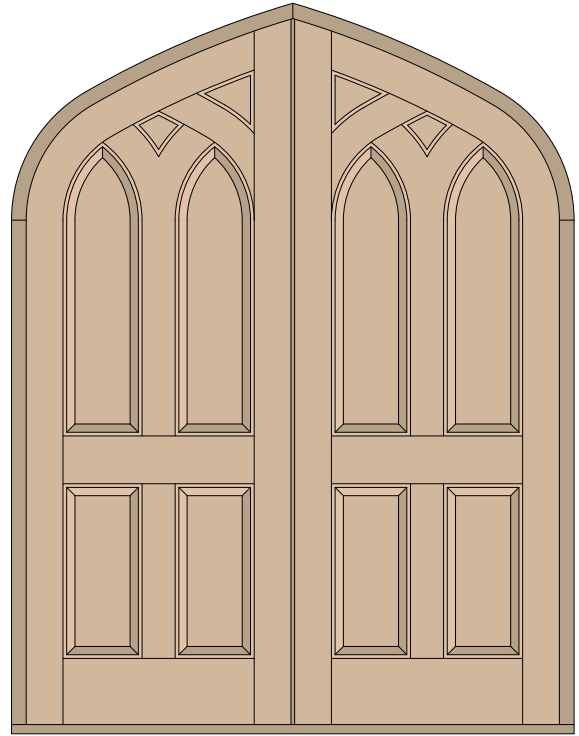
6-0 x 8-0, Dbl Top EDU.



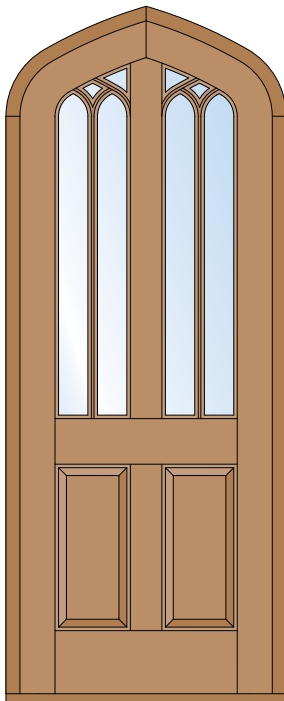
Gothic tops use a width and a spring line along with a Tudor period formula to create this two radius style.



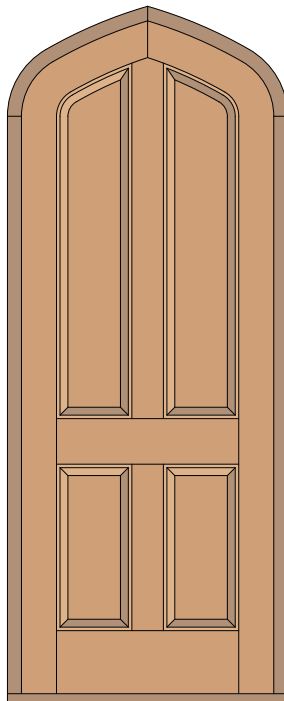
6-0 x 8-0, Dbl EDU.



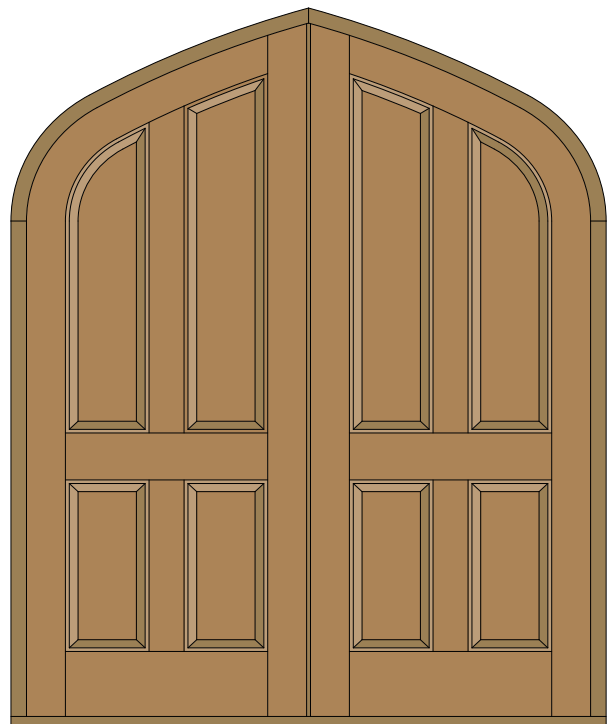
6-0 x 8-0, Dbl EDU.



3-0 x 8-0, Sgl EDU.



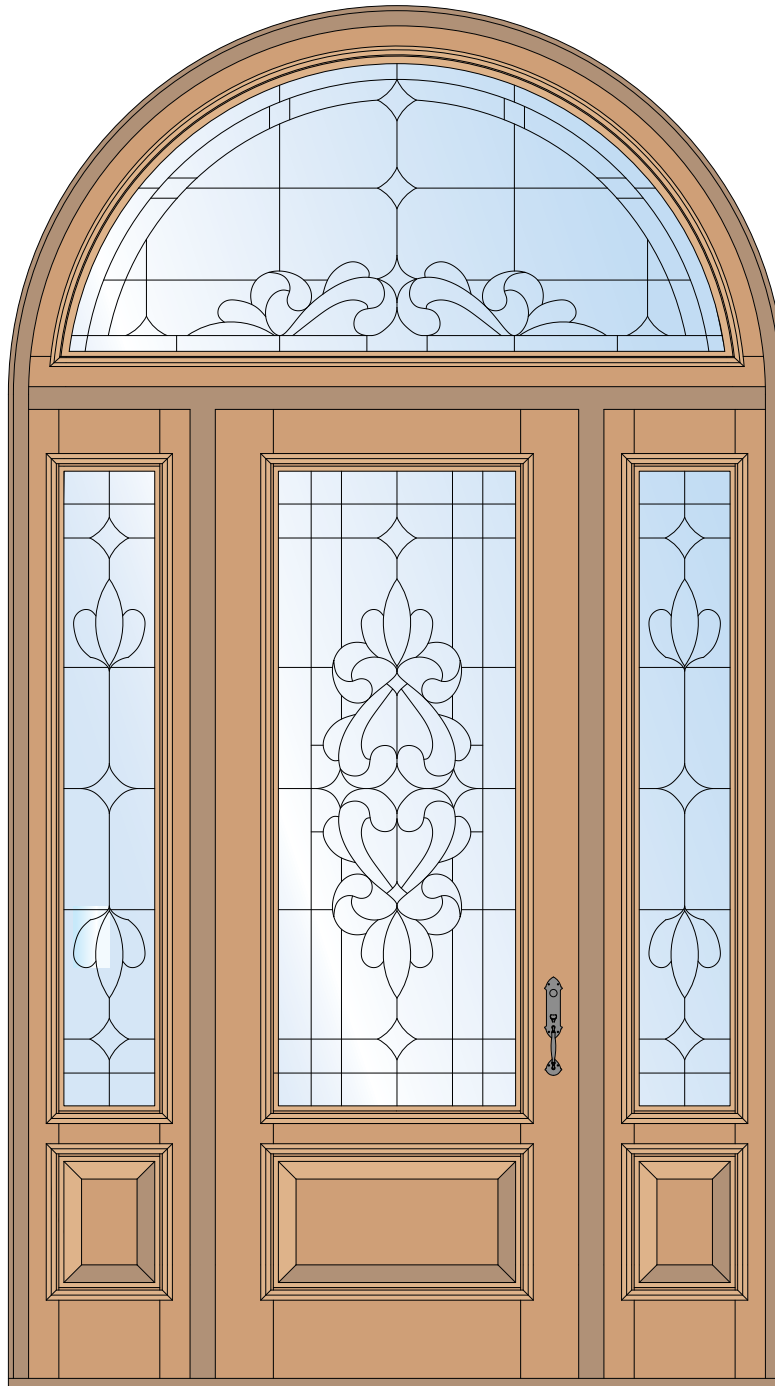
3-0 x 8-0, Sgl EDU.



6-0 x 8-0, Dbl EDU.



Leaded Glass units feature hand rolled glass, cut, beveled, and polished, then assembled in lead coming which can add dramatic light to your front entryway.

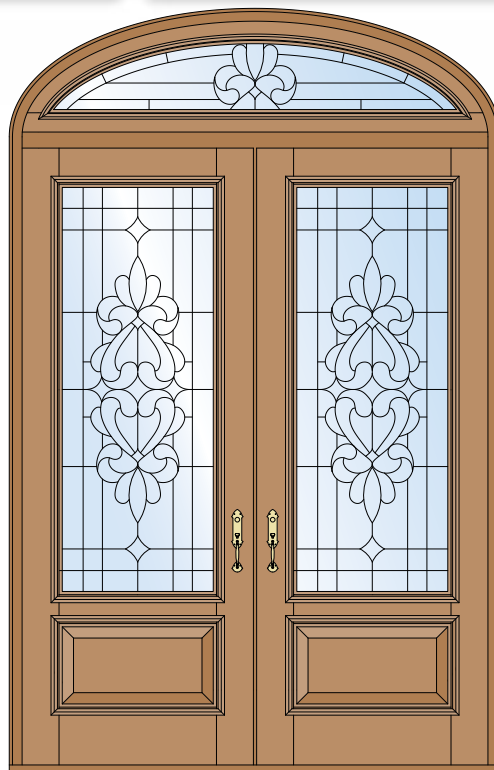


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.

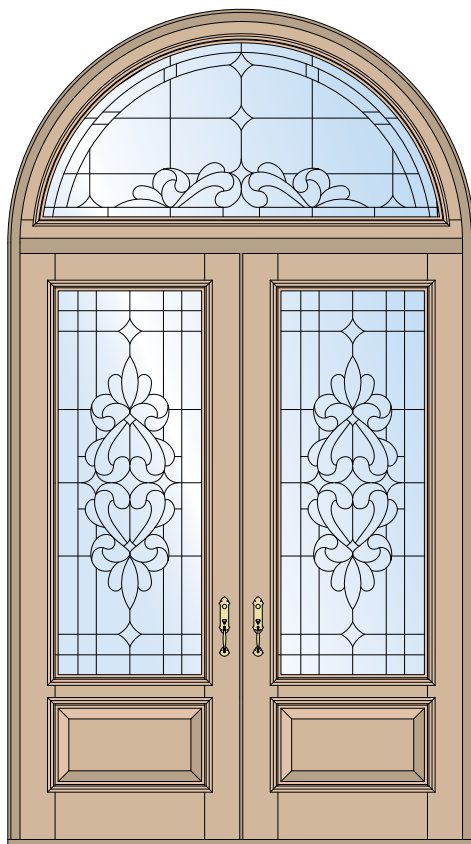




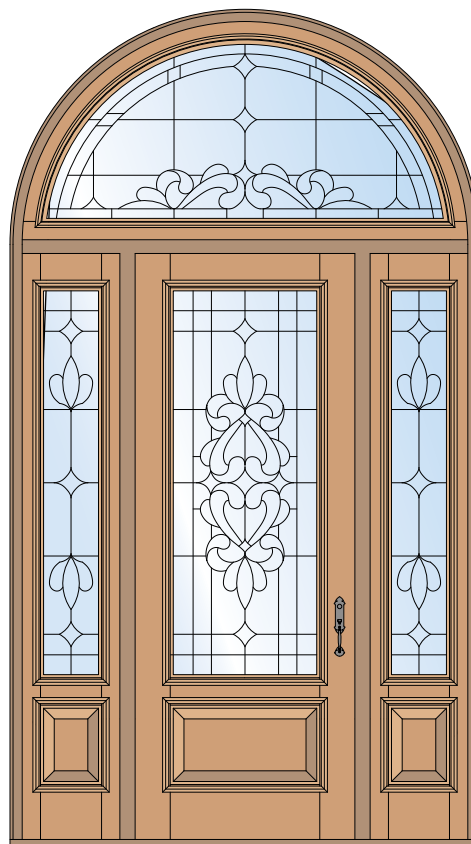
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



6-0 x 8-0 Dbl EDU with a 2 1/2" Head Mull and a 1-1/4 Elliptical Transom.



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.

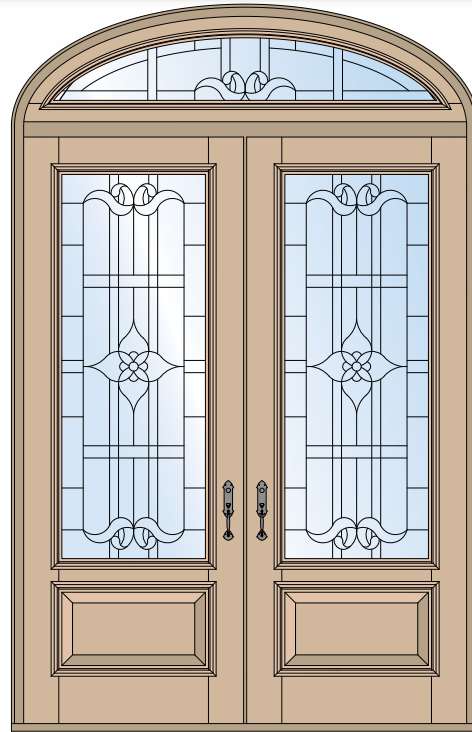


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.

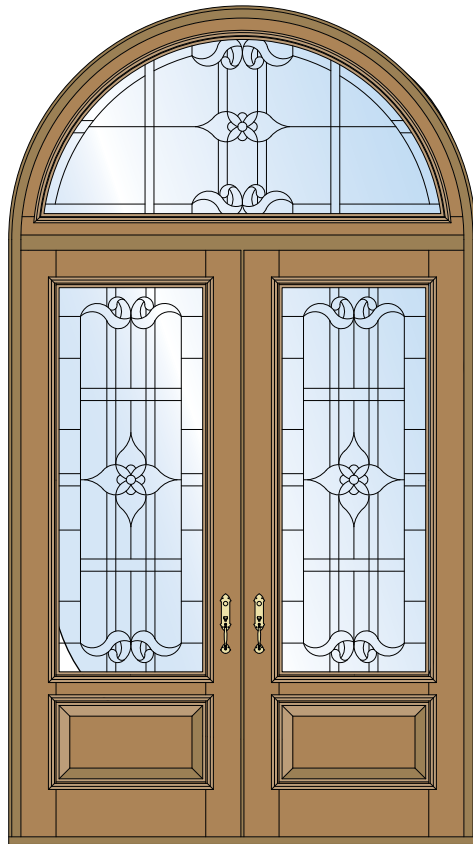




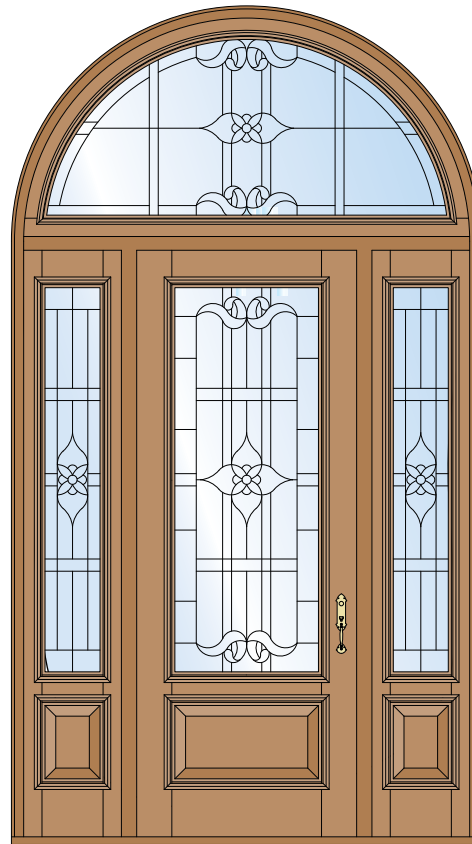
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.

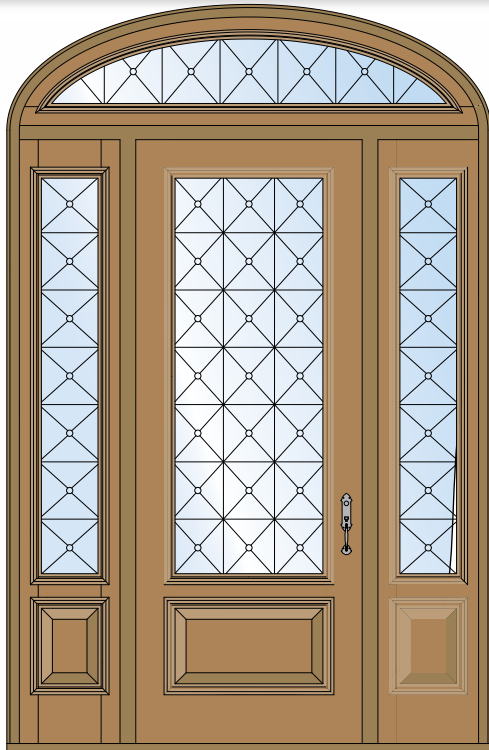


6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.

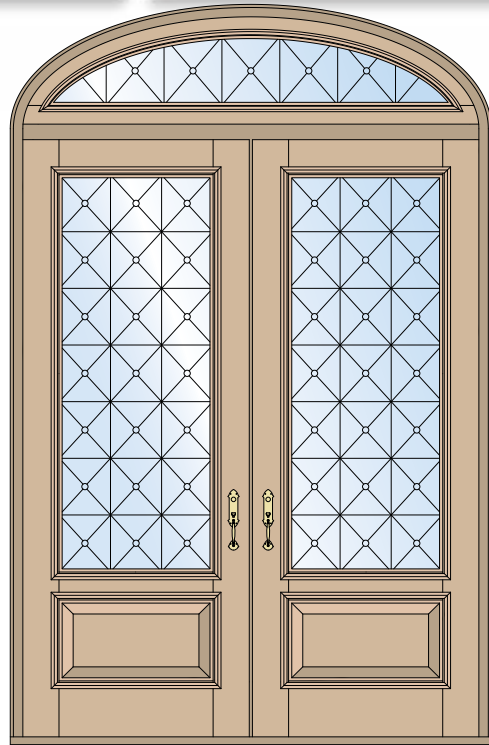


1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.

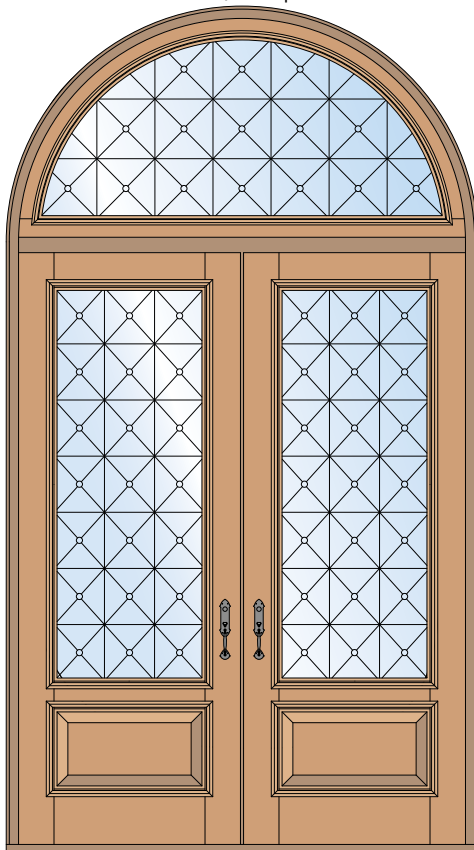




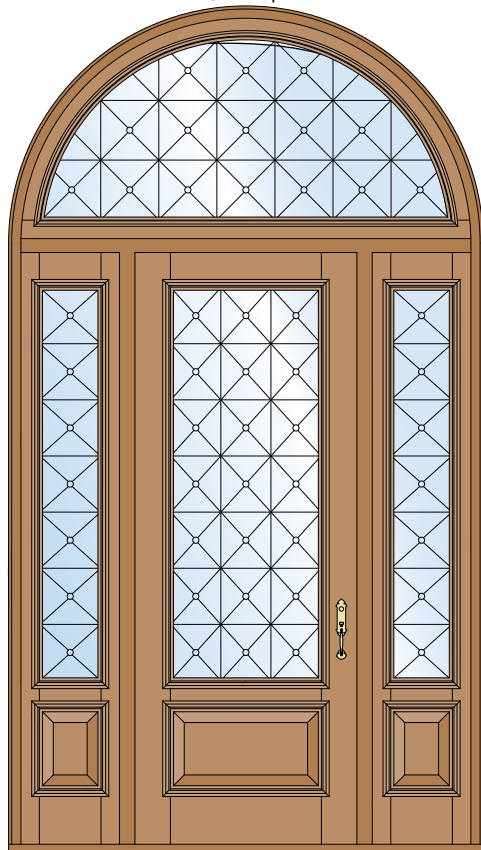
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



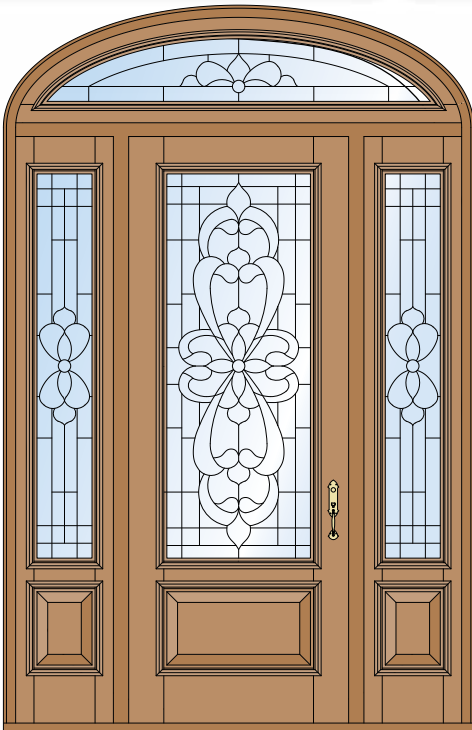
6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



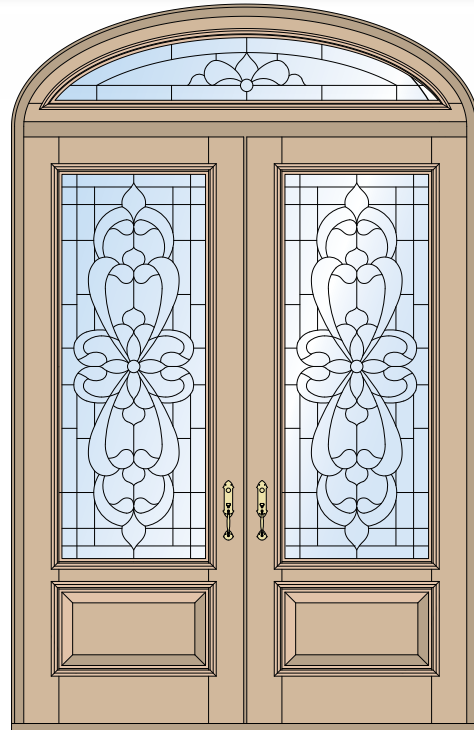
6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.



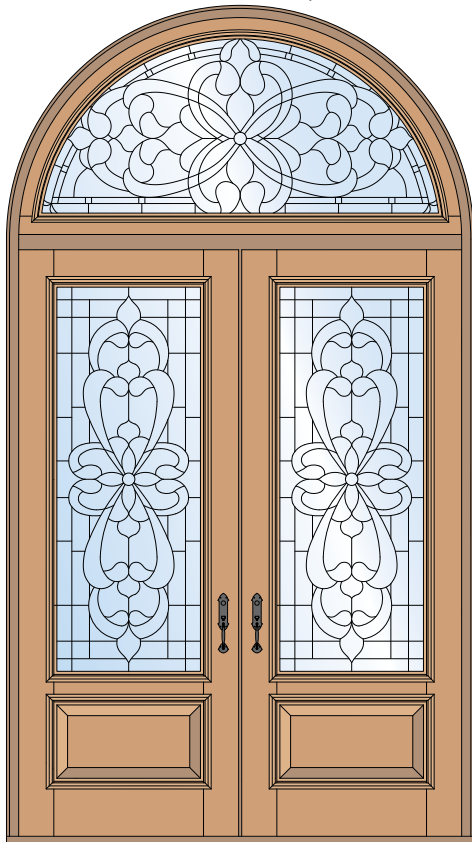
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.



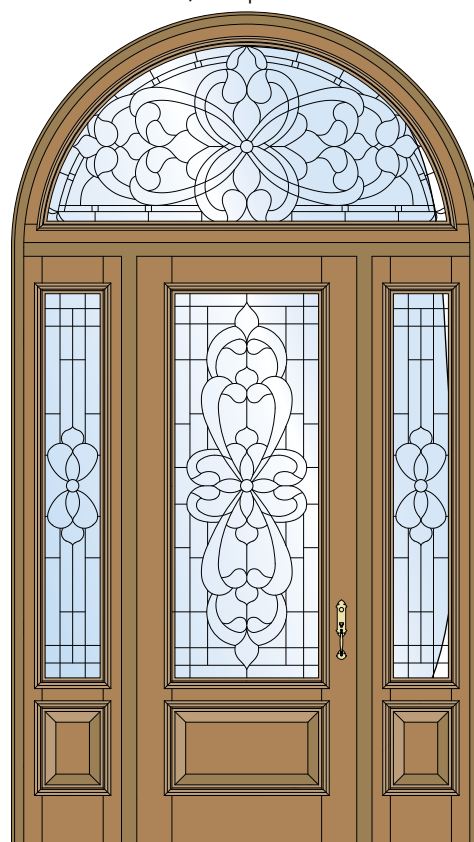
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.

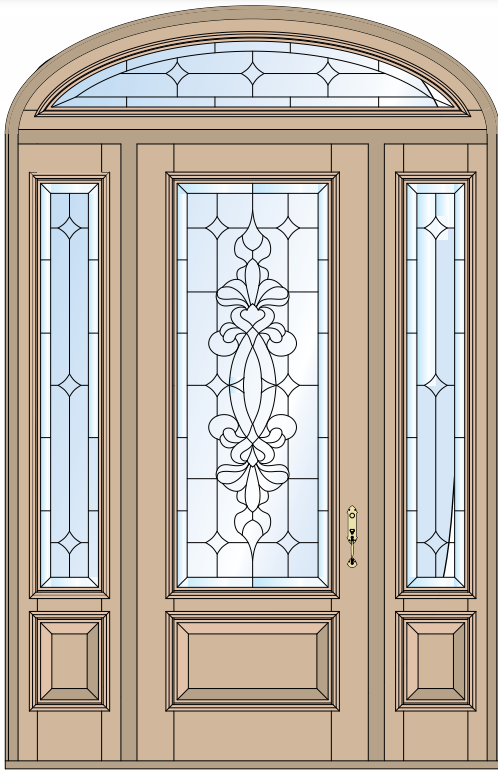


6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.



1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.





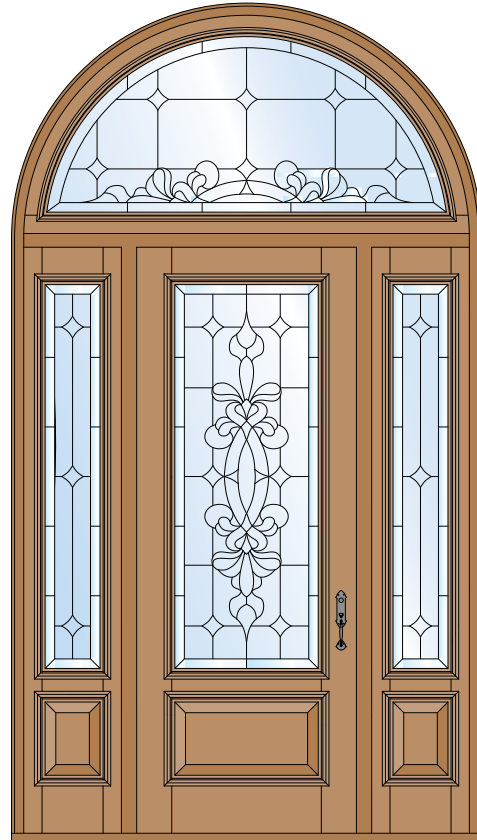
1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 1-5 1/4 Elliptical Transom.



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.



1-4 x 2 1/2" x 3-0 x 2 1/2" x 1-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-11 1/2 Half Round Transom.





6-0 x 8-0, Dbl EDU. (DR 310 Baruffo Iron)



5-0 x 8-0, Dbl EDU. (DR 310 Giovanni Iron)



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 3-2 1/4 Half Round Transom. (DR 744 Camalitane Iron)



6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 3-2 1/4 Half Round Transom. (DR 780 Domenico Iron)





5-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-1 Transom. (DR 15 Modena Iron)



6-0 x 8-0, Dbl EDU with a 1-8 Segment Top Transom (DR 310 Garibaldi Iron)



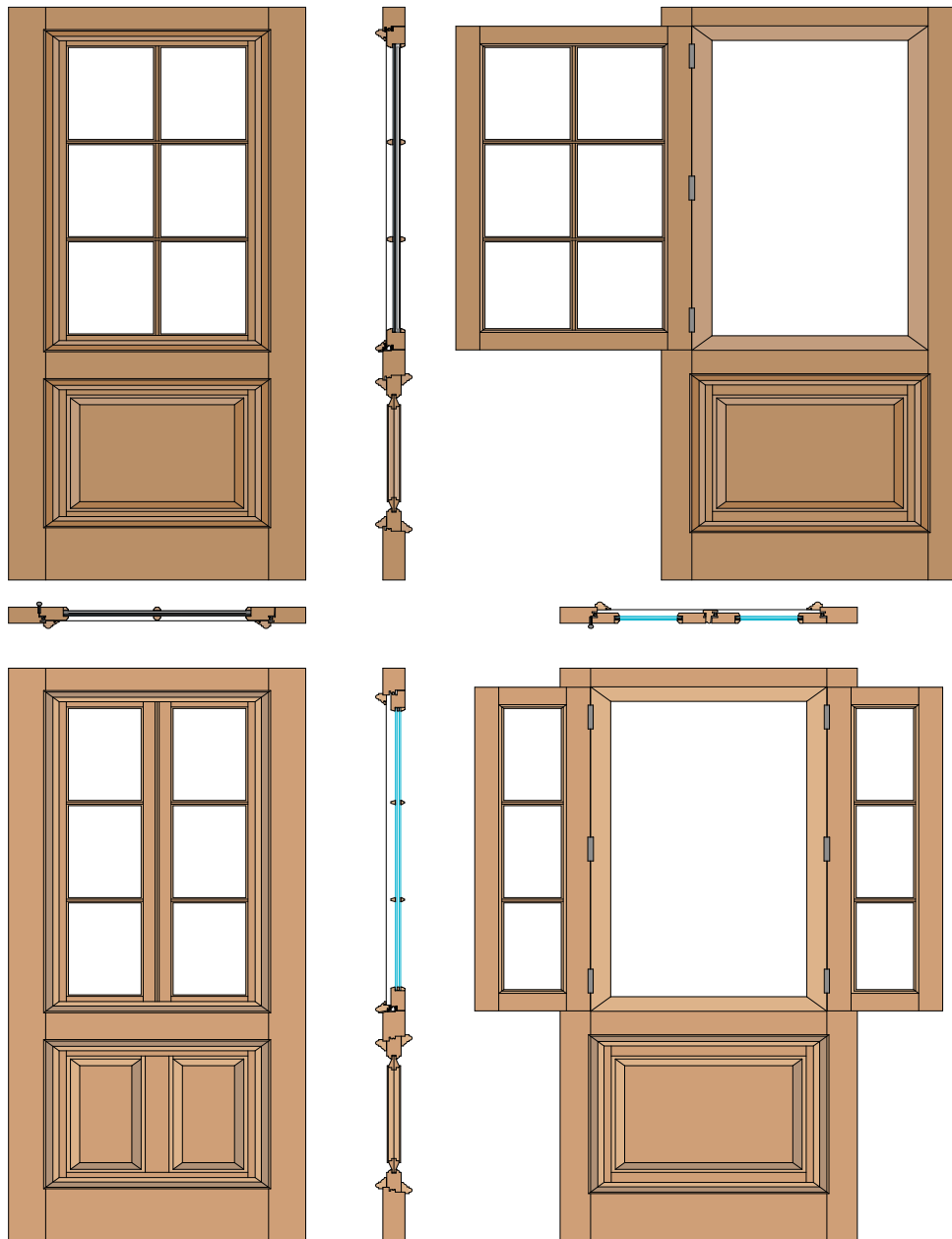
6-4 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 2-4 3/4 Transom. (DR 1501 Garibaldi Iron)



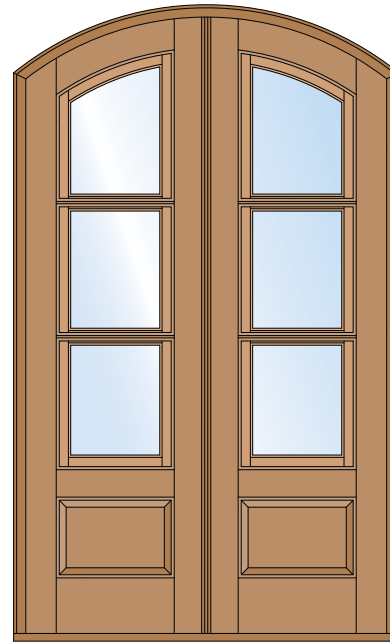
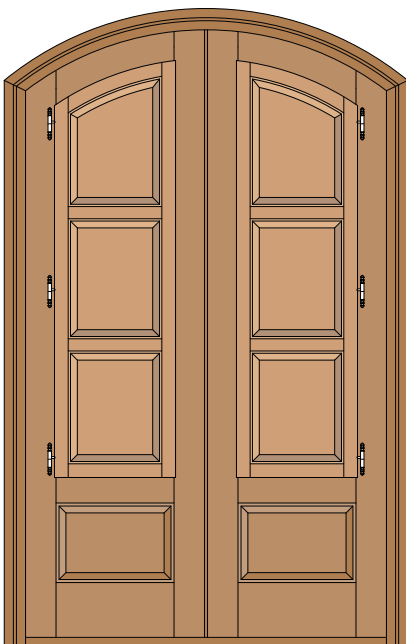
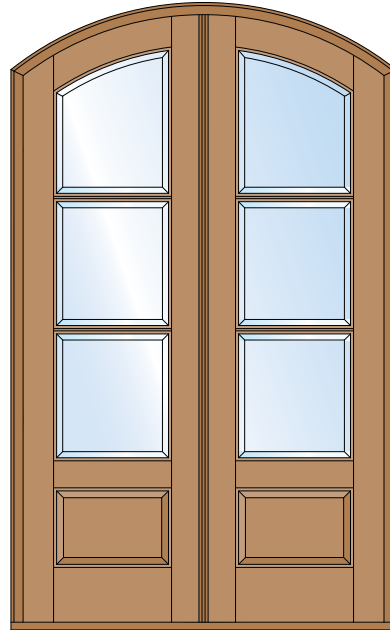
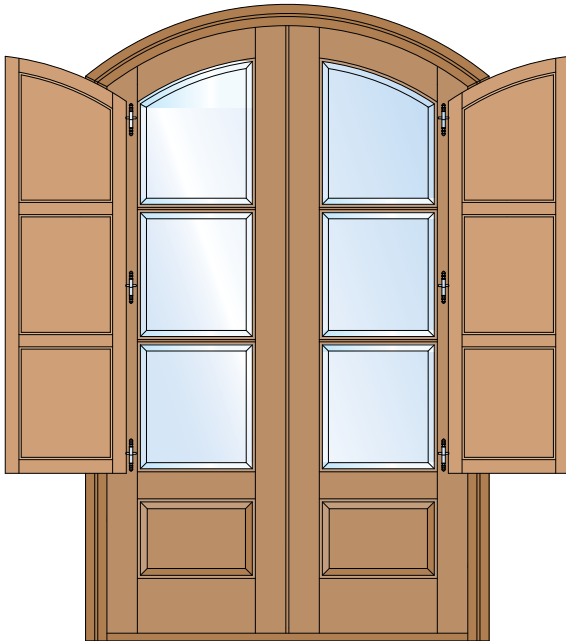
6-0 x 8-0, Dbl EDU with a 2 1/2" Head Mull and a 3-1 1/4 Half Round Transom. (DR 1501 San Carlo Iron)

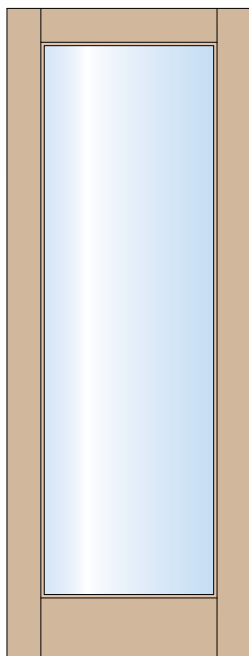


When the weather is wonderful and outside breezes are just what you need, let them inside with our operating top sash door. The top sash is available with glass or panels. The door layout is built to your requirements. Screen is incorporated into the outside Sea Island Style moulding, so insects are no problem. The weather seals are similar to our inswing casement window. The sash can be fitted with our surface bolts to meet the toughest weather conditions. If you desire a glass opening in the top but will sometimes need the privacy of a panel door, just add an operating interior panel shutter to close over the glass opening. The doors are 68mm thick, and the single operating sash is 2 1/4" thick to receive whatever glass type you may need. A French sash top is available, but only in 1 3/4" thickness.

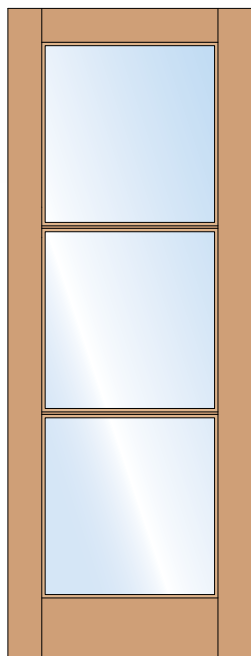


If you would love to have glass in your door unit but you are concerned about privacy or too much sun in the afternoon, please consider our hinged panel shutters which are tailored for your special requirements. These shutters overlay your glass opening and are hinged off the outside door stiles. They are held shut with a side bolt from your hardware supplier. The 1" thick shutters have 3/4" raised panels raised on one side matching the panels in your door. The back of the panel is flat and closes against the glass opening.

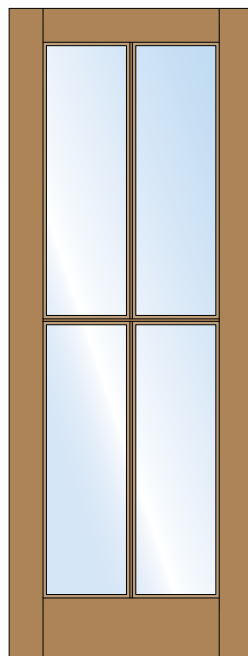




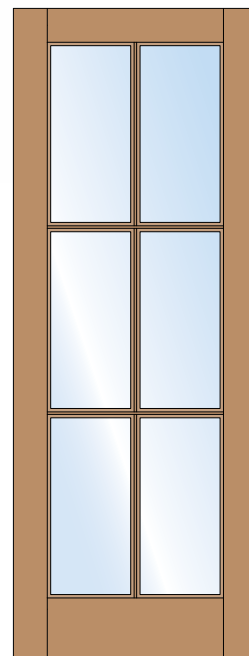
Dr 15 (1w1h)



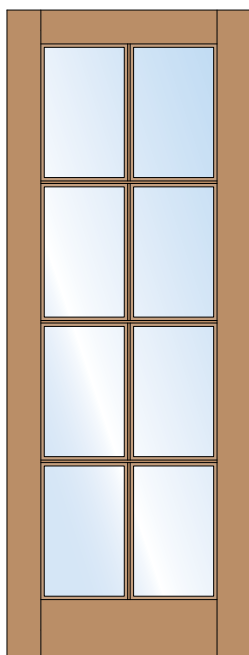
Dr 15 (1w3h)



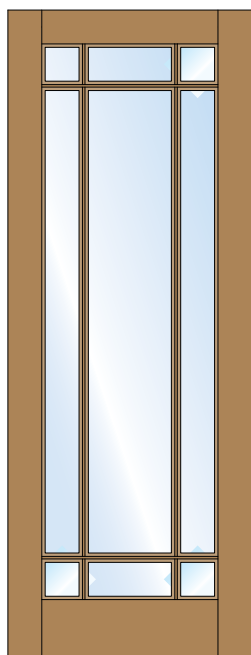
Dr 15 (2w2h)



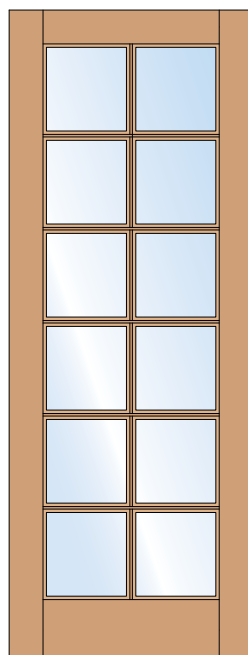
Dr 15 (2w3h)



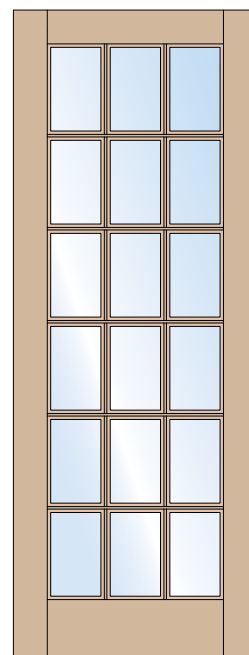
Dr 15 (2w4h)



Dr 15 (3w3h) Prairie

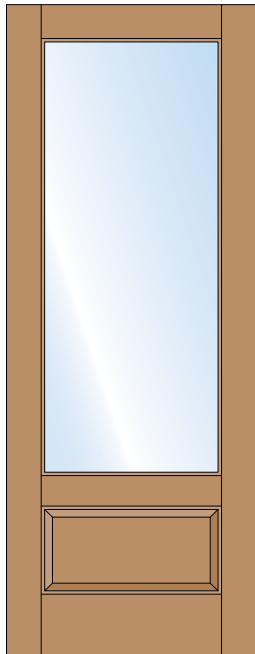


Dr 15 (2w6h)

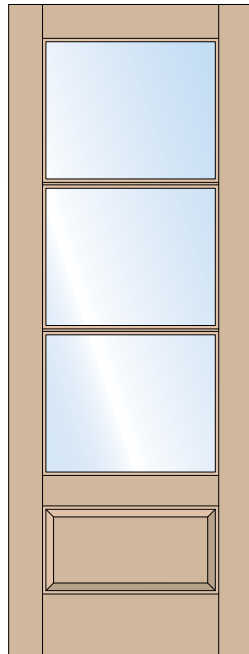


Dr 15 (3w6h)

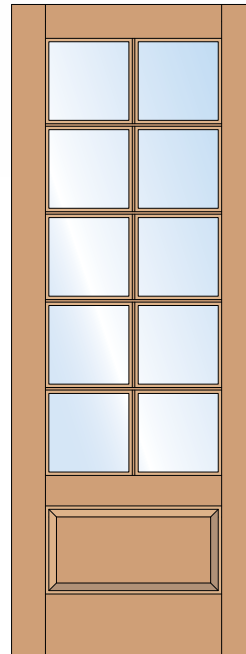




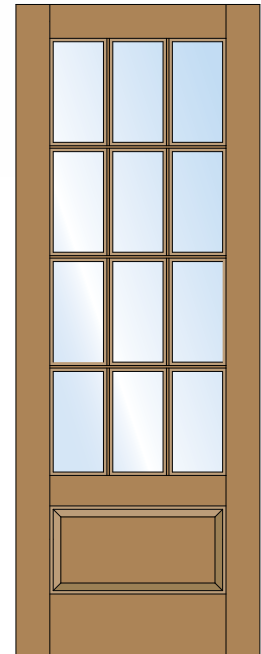
Dr 310 (1w1h)



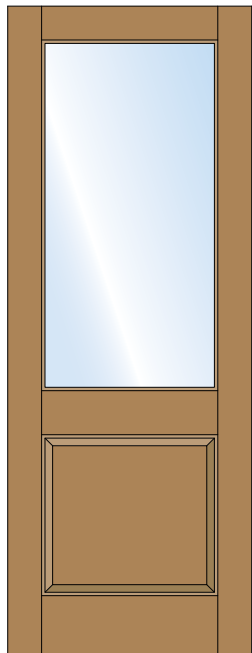
Dr 310 (1w3h)



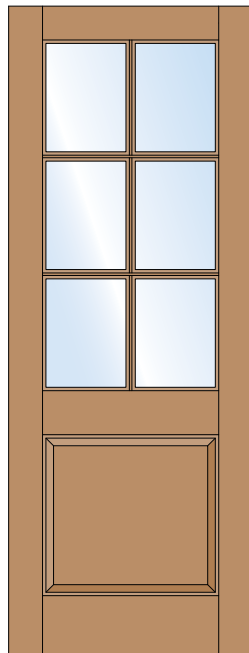
Dr 310 (2w5h)



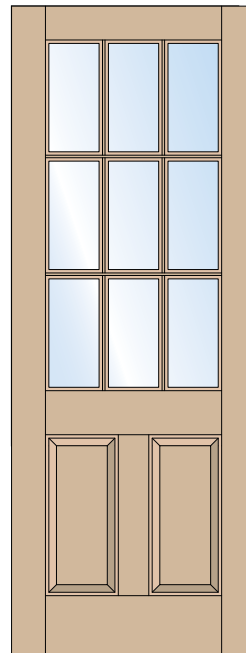
Dr 310 (3w4h)



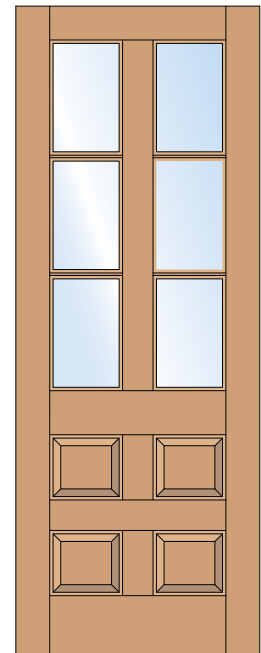
Dr 360 (1w1h)



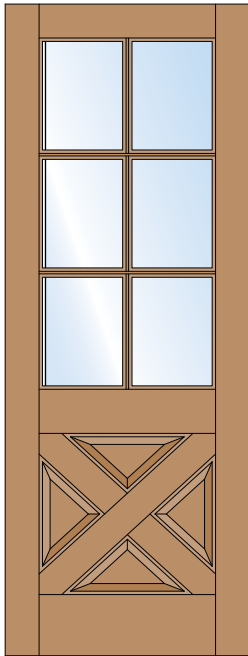
Dr 360 (2w3h)



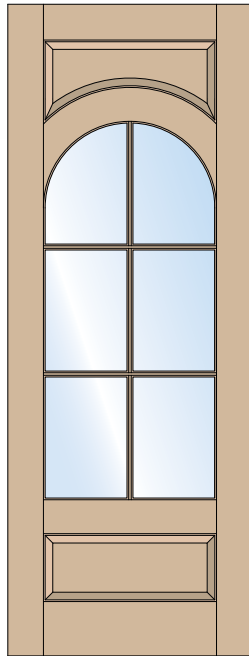
Dr 360 (3w3h) / (2w1h) Pnl



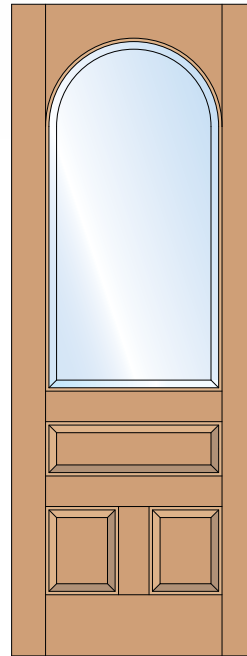
Dr 360 (2w3h) / (2w2h) Pnl



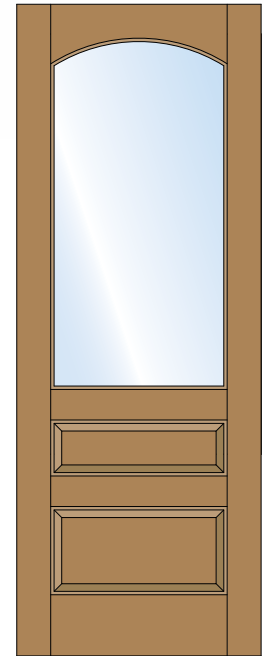
Dr 36X (2w3h)



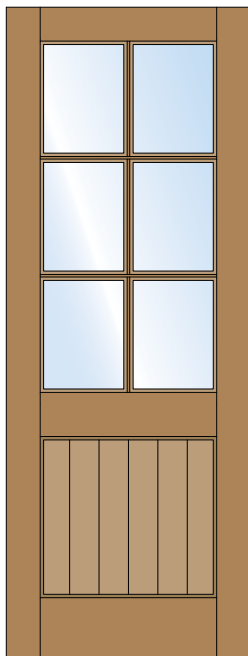
Dr 746 (2w3h)



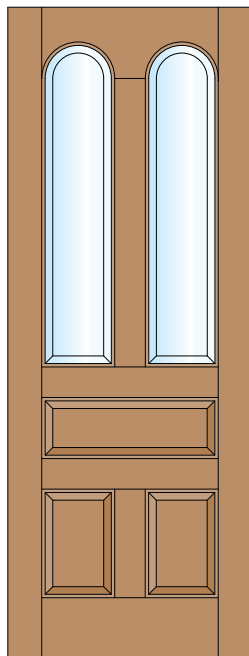
Dr 3550



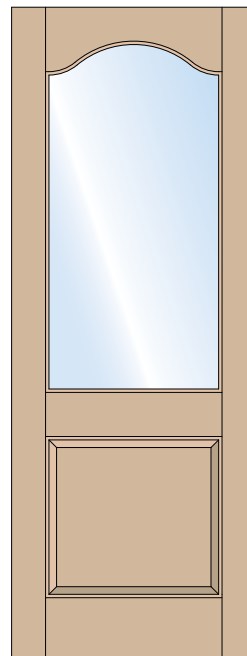
Dr 339



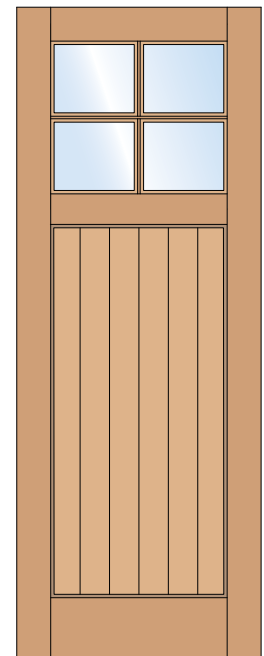
Dr 360 (VJ 6w)



Dr 3540

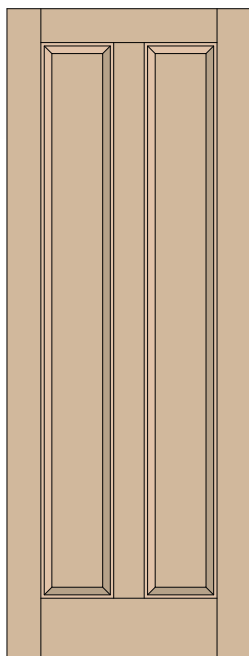


Dr 730

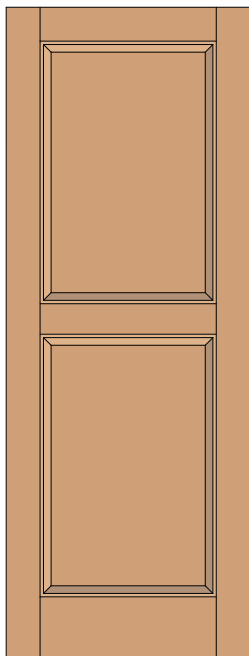


Dr 310 (VJ 6 w)

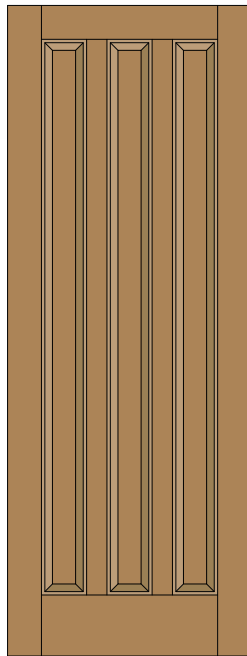




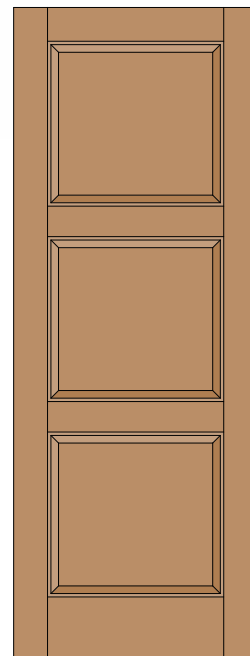
Dr 202



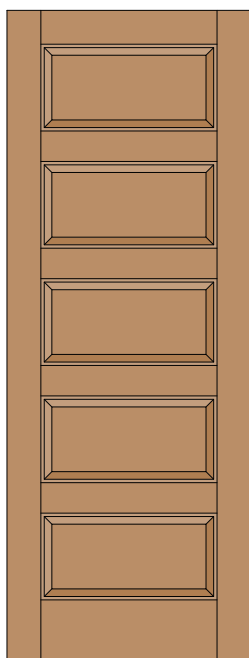
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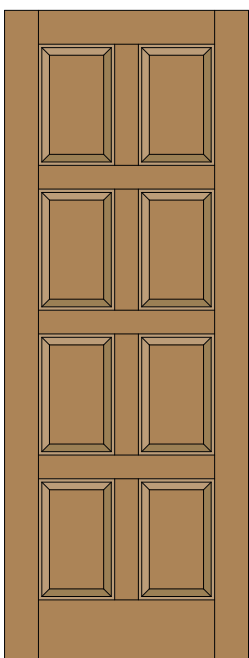
Dr 303



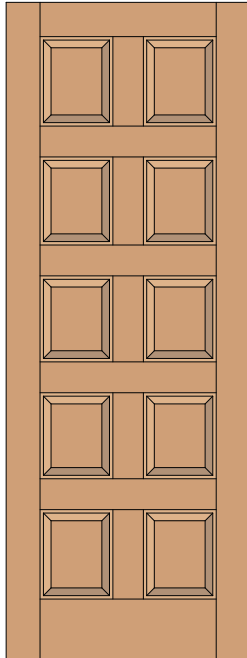
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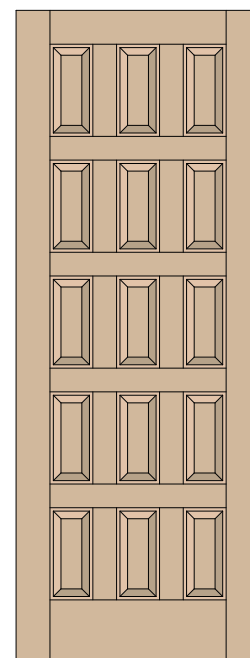
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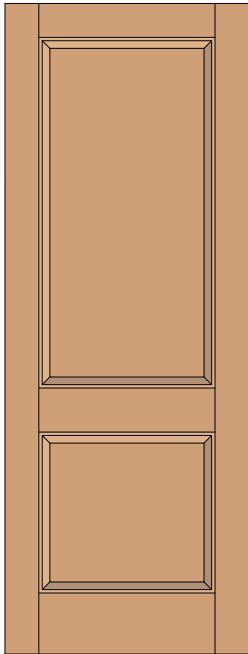
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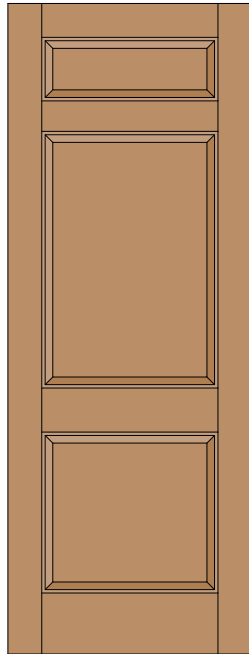
Dr 3310



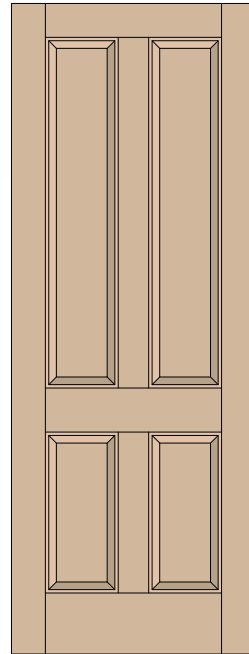
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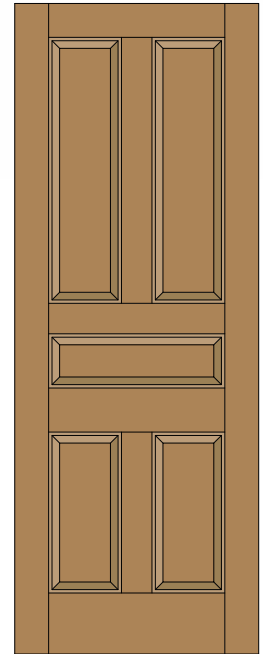
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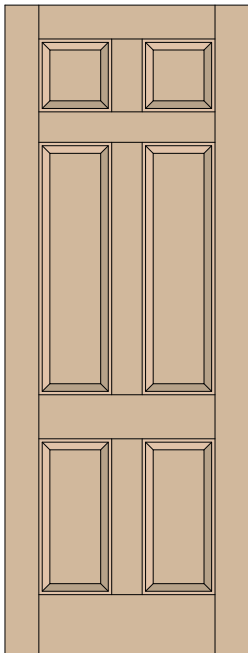
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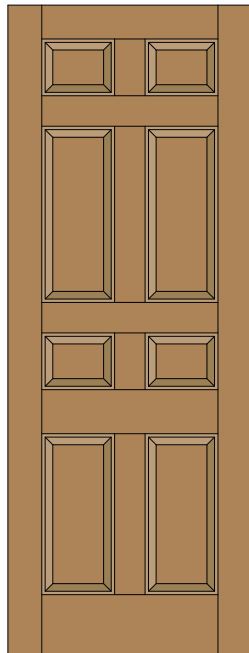
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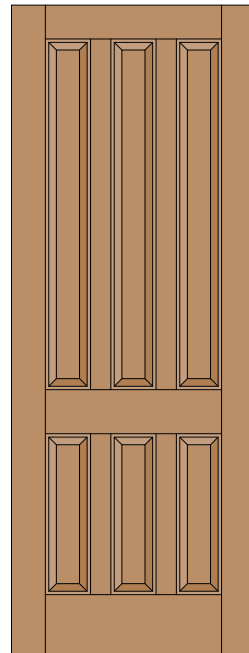
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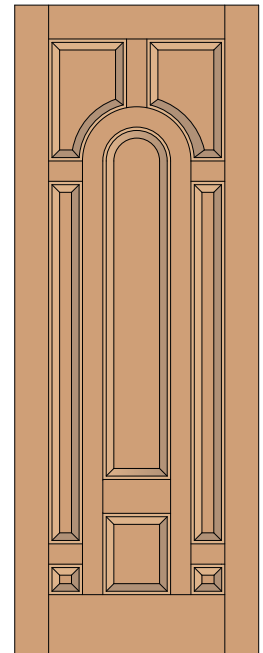
Dr 66



Dr 808

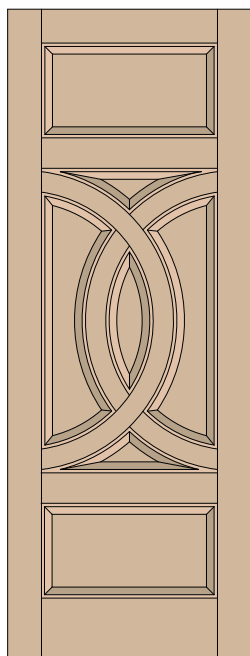


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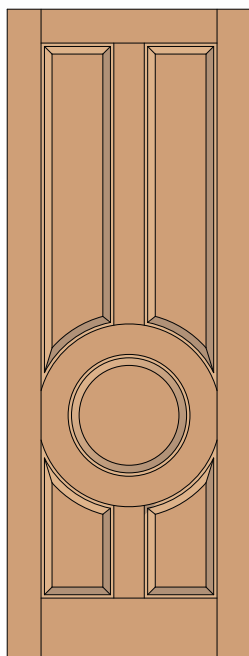


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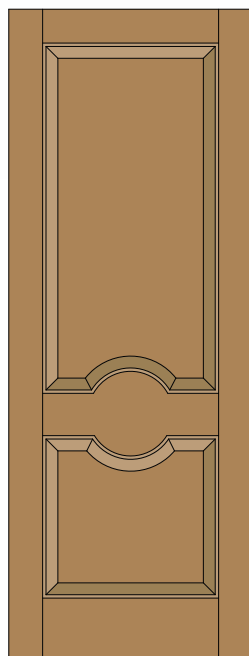




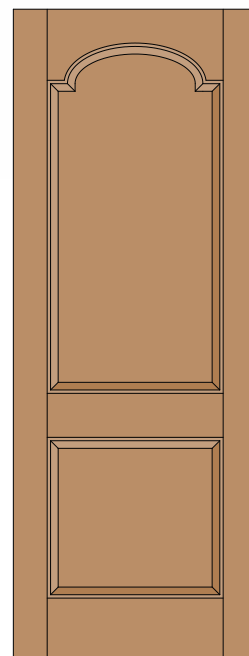
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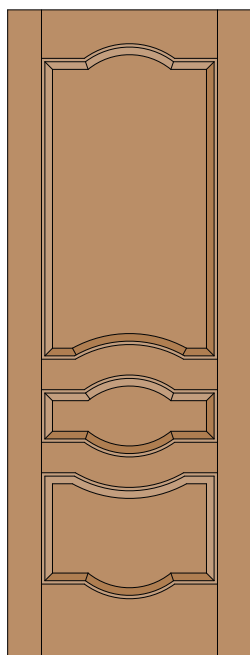
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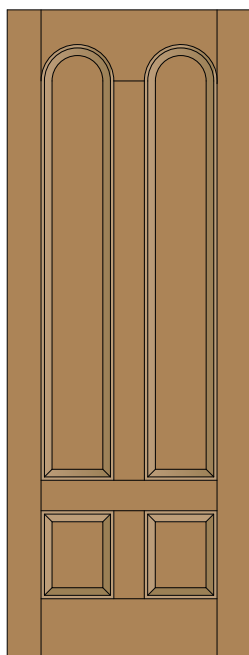
Dr 262



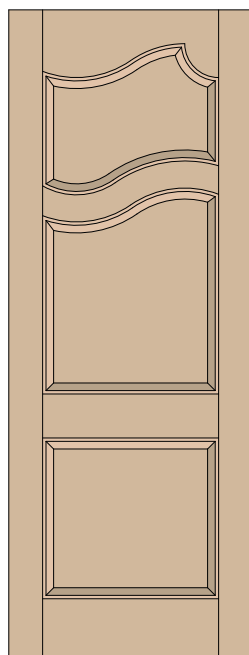
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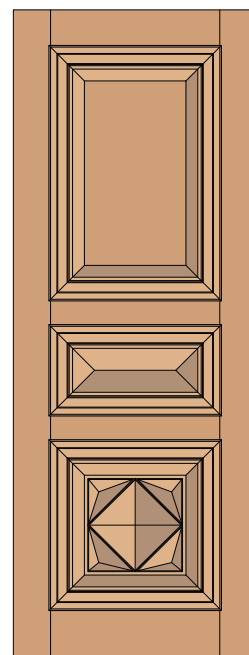
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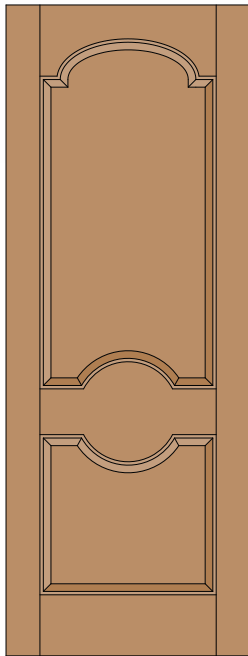
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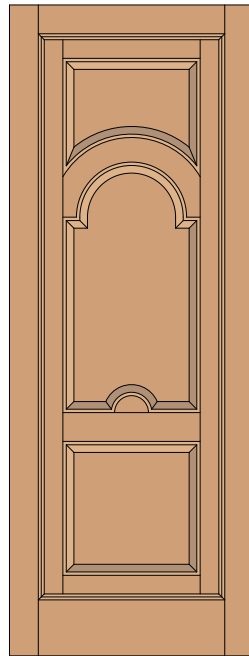
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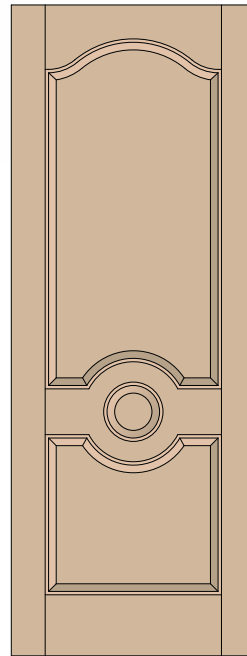
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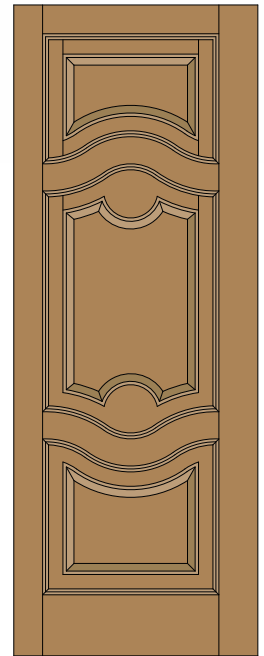
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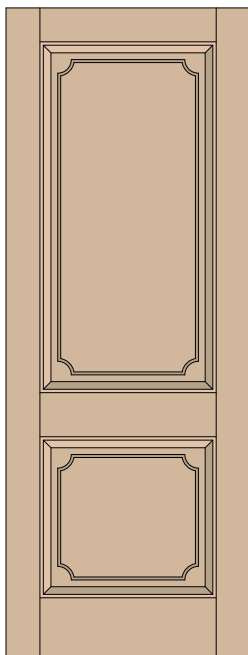
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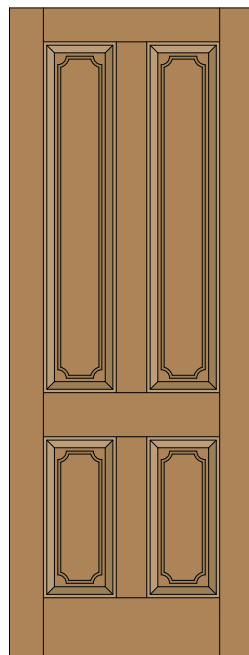
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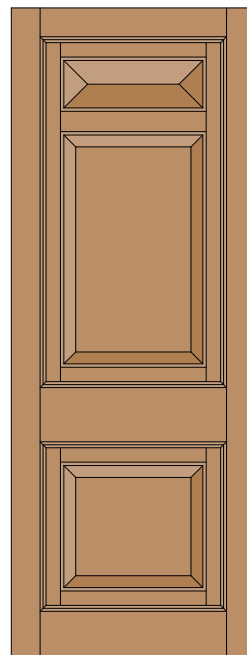
68mm 939



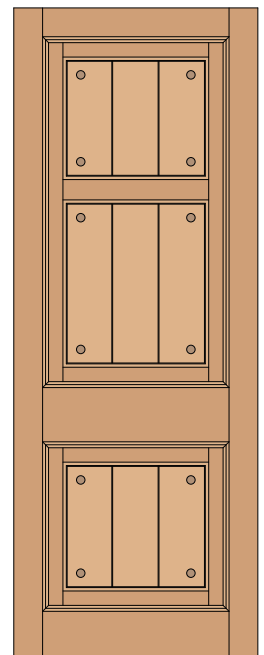
Georgian DR 22



Georgian DR 44

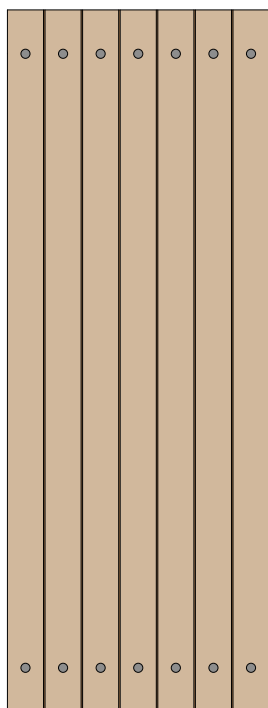
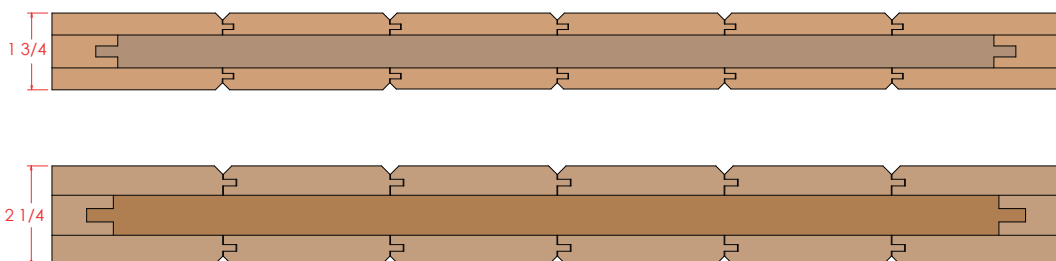


68mm 961

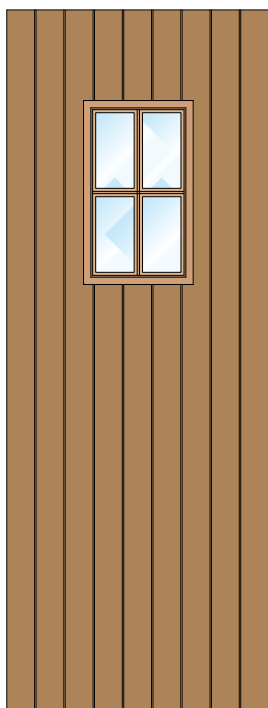


68mm 960

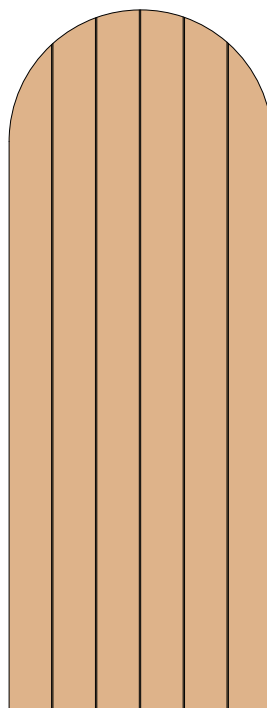
Our Plank Door line is built with solid tongue and groove boards which are bonded to a center platform of exterior premium plywood. The plywood core has solid wood edgings applied. This assembly is laminated with Type 1 exterior adhesives. This construction is weather proof and extremely strong. We can fabricate these doors in any shape to fit your needs, and glass openings can also be inserted.



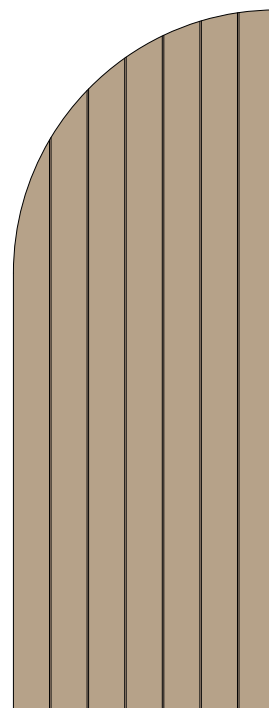
P 7



P 9



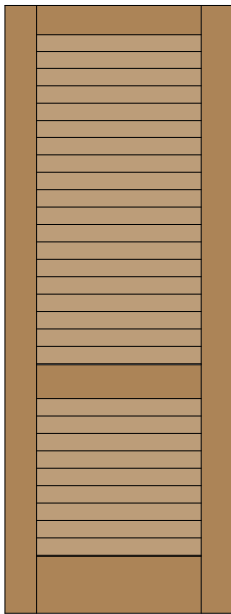
P 6-2



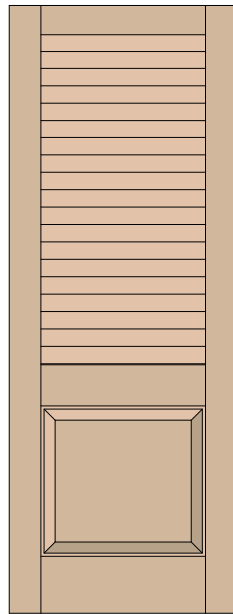
P 7-4



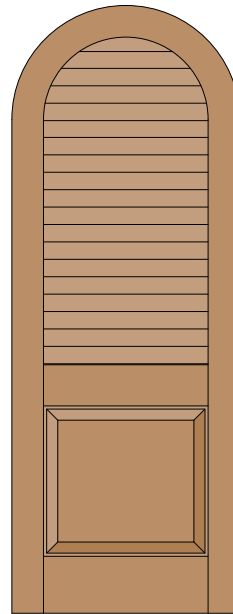
We manufacture louver doors in a wide variety of options. They can be venting or closed, moveable or fixed. We can combine louvers with glass or panels and do all of this in any layout or design. The main detail which controls the appearance of the louvers is the spacing of the slats. Our most popular is 1 3/4" on center with 3/8" thick slats. The slats can have radius edges or square. Be sure to check our detail pages for all options.



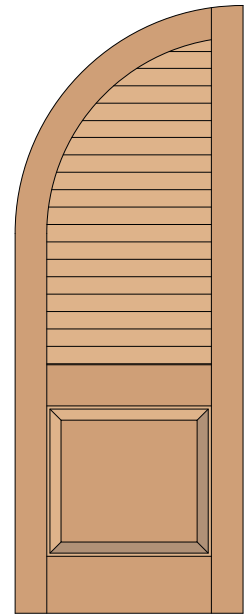
L - L



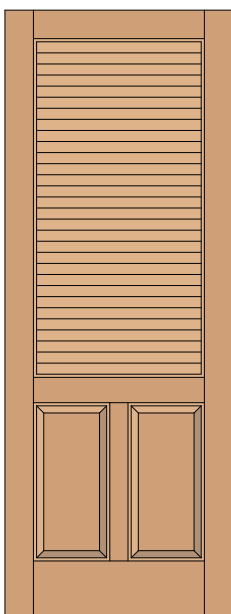
L - 1P



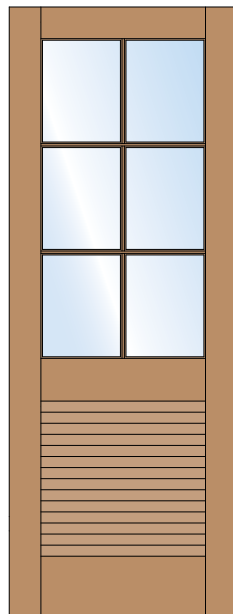
L - 1P - 2



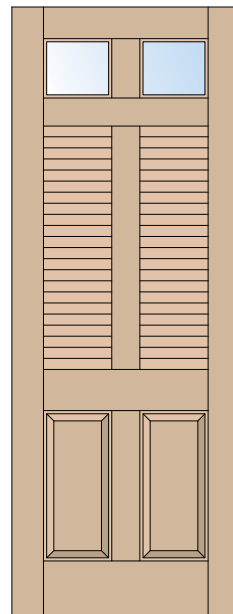
L - 1P - 4



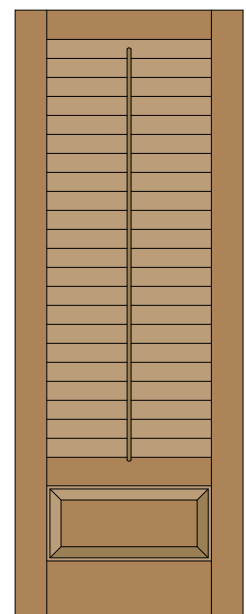
L - 2P



G (2x3) - L



DR 66 (2GT - 2ML - 2BP)

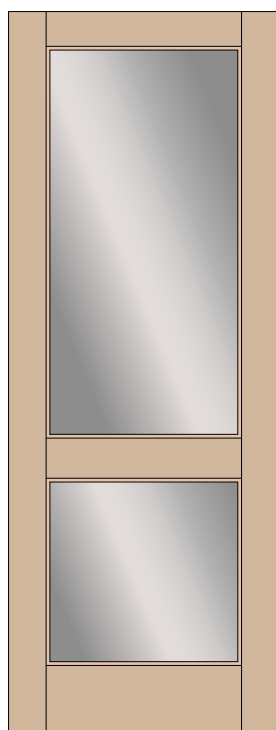


ML - 1P

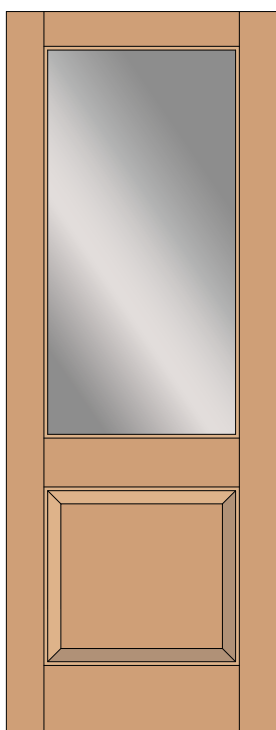


STEWART BRANNEN
MILLWORKS

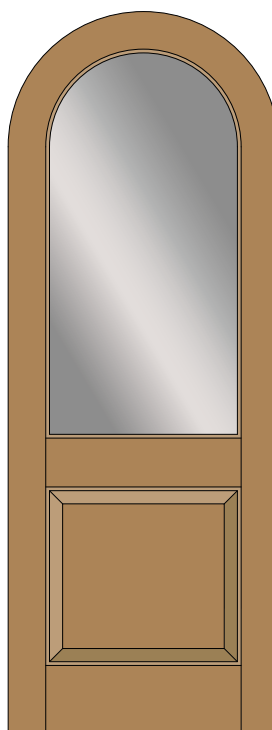
Screen doors are made with the same attention to detail as our other doors. They are all custom fabricated to your size and design requirements. Panels are available where desired. All thicknesses are available, but most are built 1 3/4" thick. Screen can be bronze, fiberglass, or aluminum. Engineered stiles are used to minimize warping. If you would like a screen door over your entry door, we can match the layout completely. Be sure to check our door frame details. We can double rabbet the frame for the door, or they can be hung off the exterior trim. We build many doors for porch applications as well.



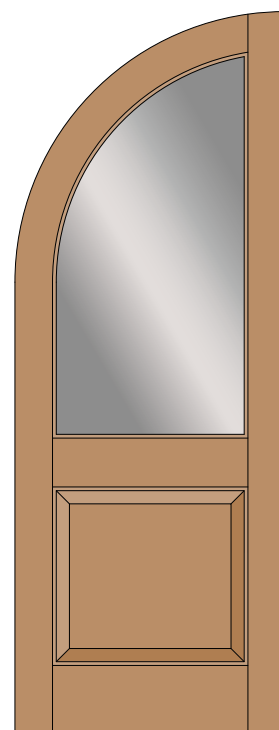
S - S



S - 1 P

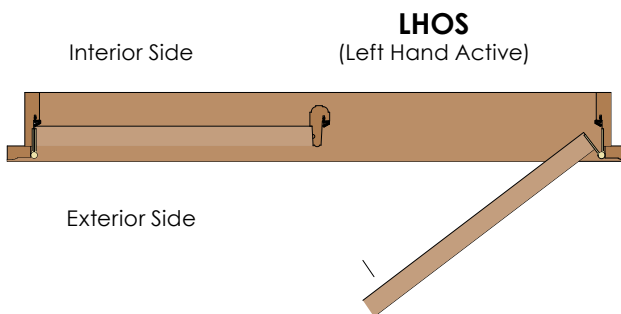
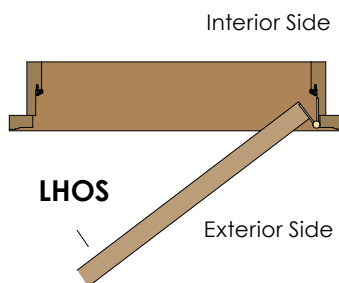
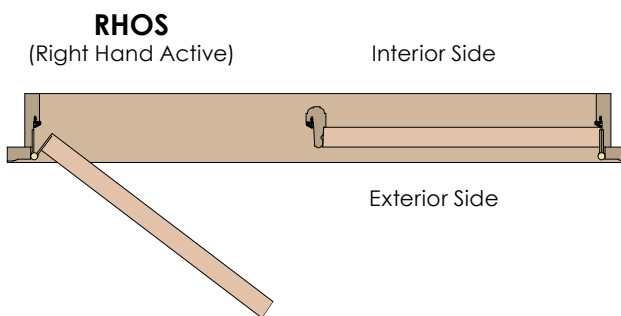
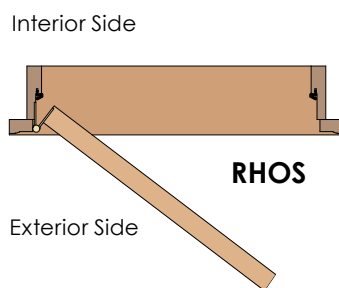
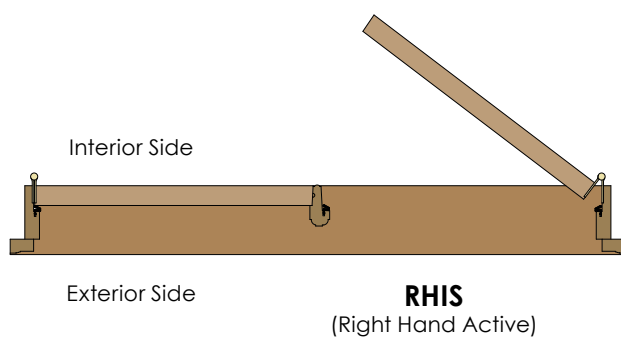
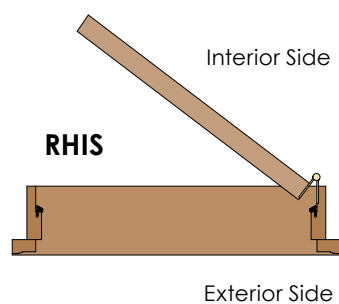
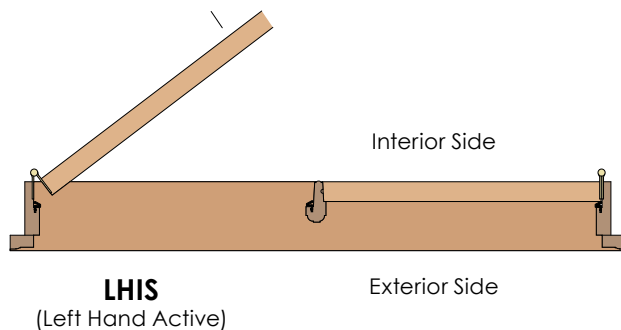
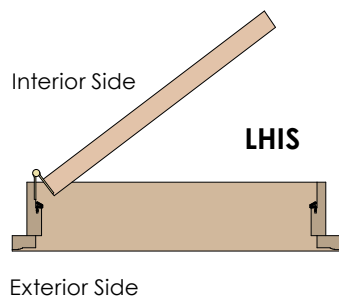


S - 1P - 2

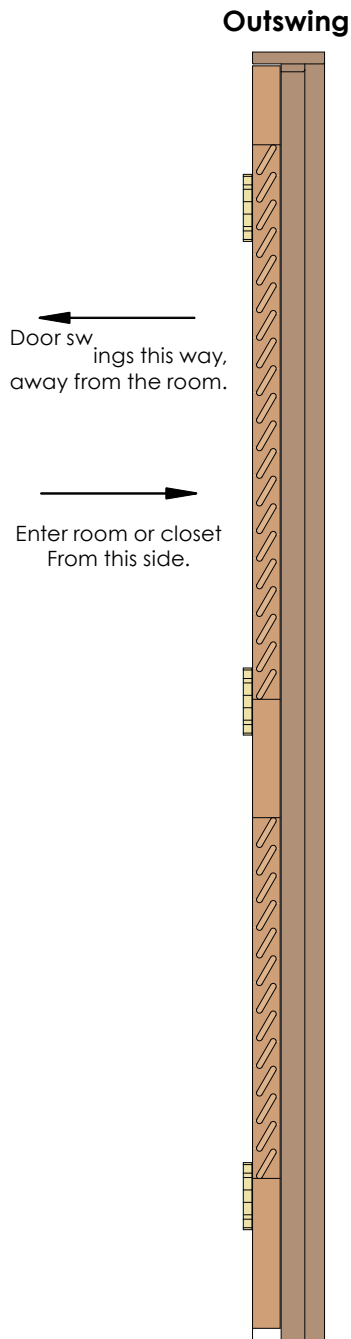


S - 1P - 4

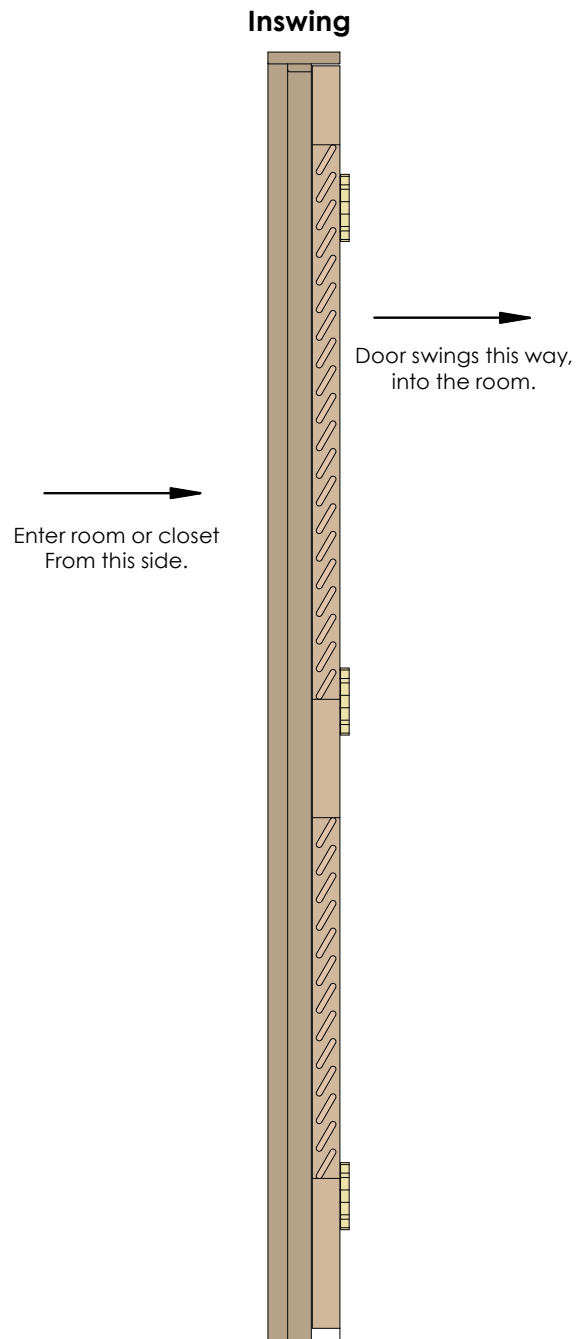




When entering a room or closet through an outswing louver door, the door will swing out away from the room. The slats will be pointing down towards you so that you cannot see in.



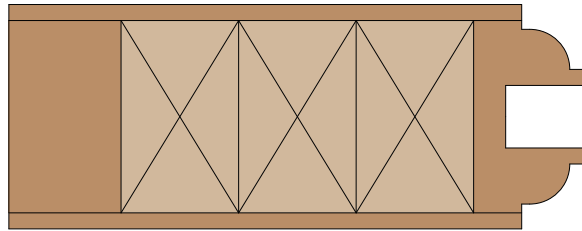
When entering a room through an inswing louver door, the door will swing into the room. The slats will be pointing down towards you so that you cannot see in.



EXTERIOR DOOR CONSTRUCTION METHODS

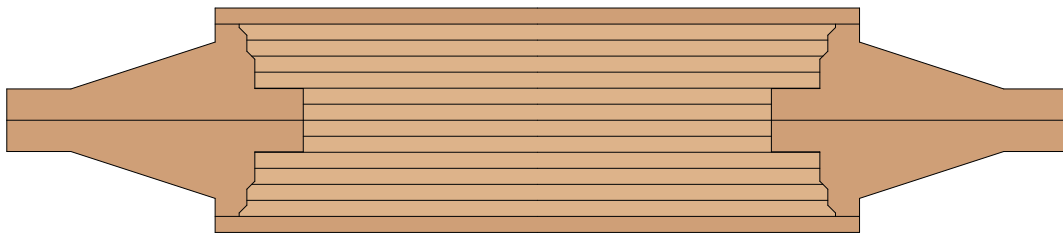
VENEERED STILE CONSTRUCTION

Our exterior doors are built to provide you with the best wood door on the market. We build our doors to withstand the ever changing weather conditions here in the Southeast. Our stiles are engineered using laminates and edgings which we manufacture out of the highest quality lumber available. The core of the stile is constructed from solid wood strips laminated together. This is done so that any internal tension, which would be present in a solid stile, cannot be released when the moisture content of the stile changes. The stile's stability is greatly increased from the smaller pieces offsetting each other in a group assembly.

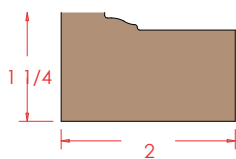


RIMMED PANEL CONSTRUCTION

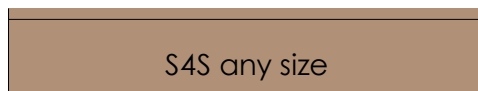
Our rimmed panels are an Architectural Woodwork Institute certified premium panel. They are built using an exterior plywood core to which we apply solid wood edgings. These parts are machined to fit each other and have a hidden finger joint in the miter joint at the corners. This assembly is glued and clamped together with Type 1 adhesives. The miter joints cannot break and open up. We manufacture our own laminates which are spliced together to form the panel face. We are able to use laminates from the same board so the panels match. The panel faces are then laminated to the panel core. This assembly gives you a panel which is dimensionally stable and has no edge glued joints in the panel which could separate under harsh conditions. The processes we use are labor intensive but necessary in building a premium product which will have the best chance of enduring exterior environmental conditions.



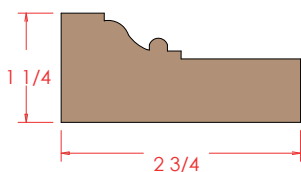
We offer a wide range of one piece exterior trim profiles. All Exterior Mulls are S4S unless specified. Some profiles can have matching beaded mulls on sidelite and transom units.



SBM 180

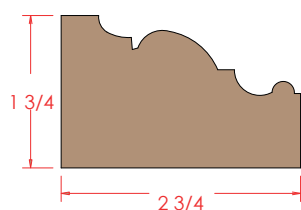
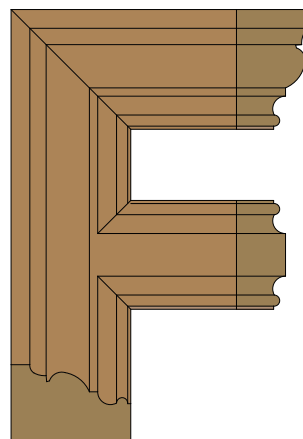


S4S any size

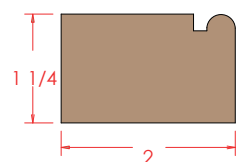


SBM 1444

Beaded Mull Option on SBM 1072

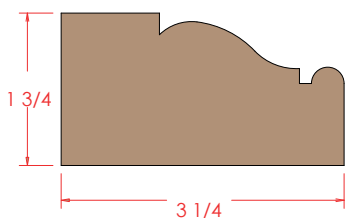
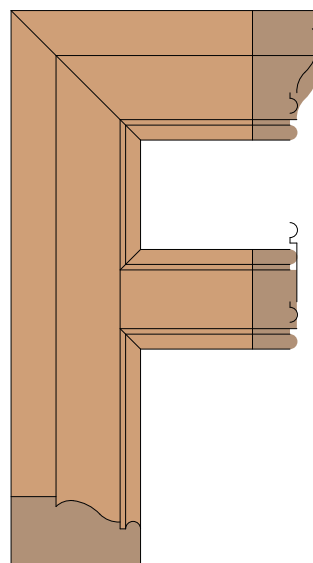


SBM 1072

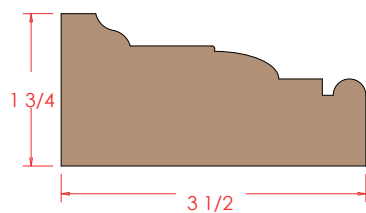


SBM 175

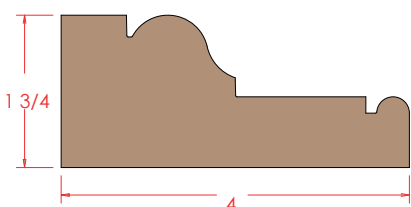
Beaded Mull Option on SBM 175, 587, 3017, 1601



SBM 587

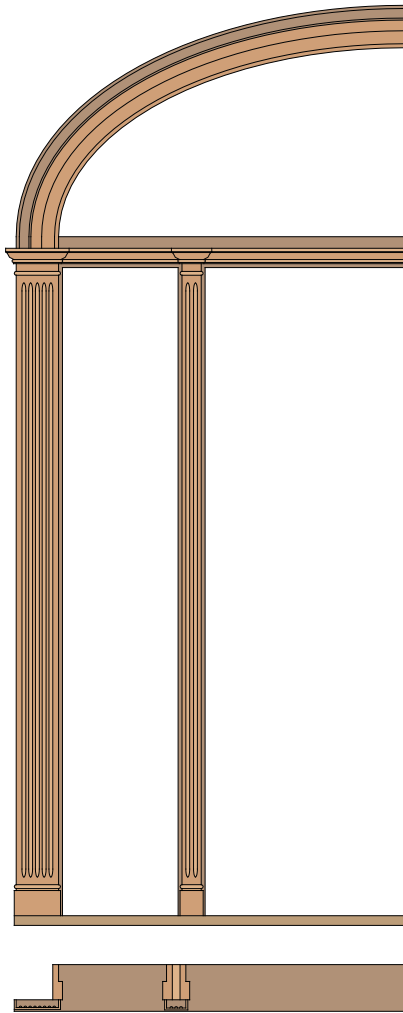


SBM 3017



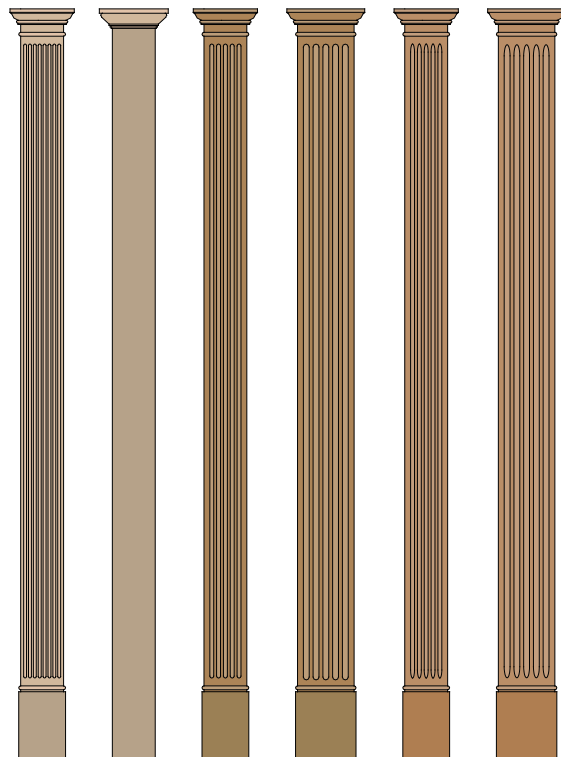
SBM 1601

When your Entry requires more than one piece exterior trim, we can offer exterior trim sets to meet your architectural style. Exterior trim can be applied directly to the frame, or if more elaborate trim is required, extension mulls can be applied to allow for larger mouldings.

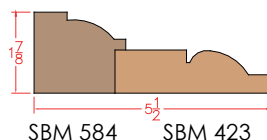
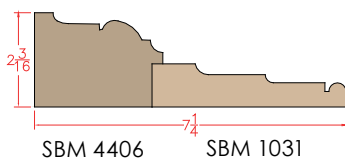


PILASTERS - DIRECT TO FRAME

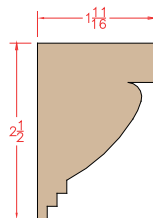
Flutes on Pilasters can be terminated with radius or elliptical ends. Pilasters are 1" thick.



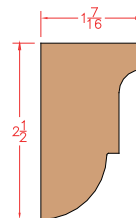
RADIUS TRIM



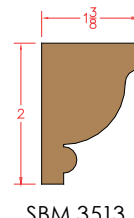
CAPITAL MOULDINGS



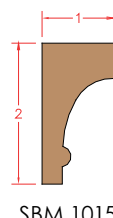
SBM 1733d



SBM 999s



SBM 3513



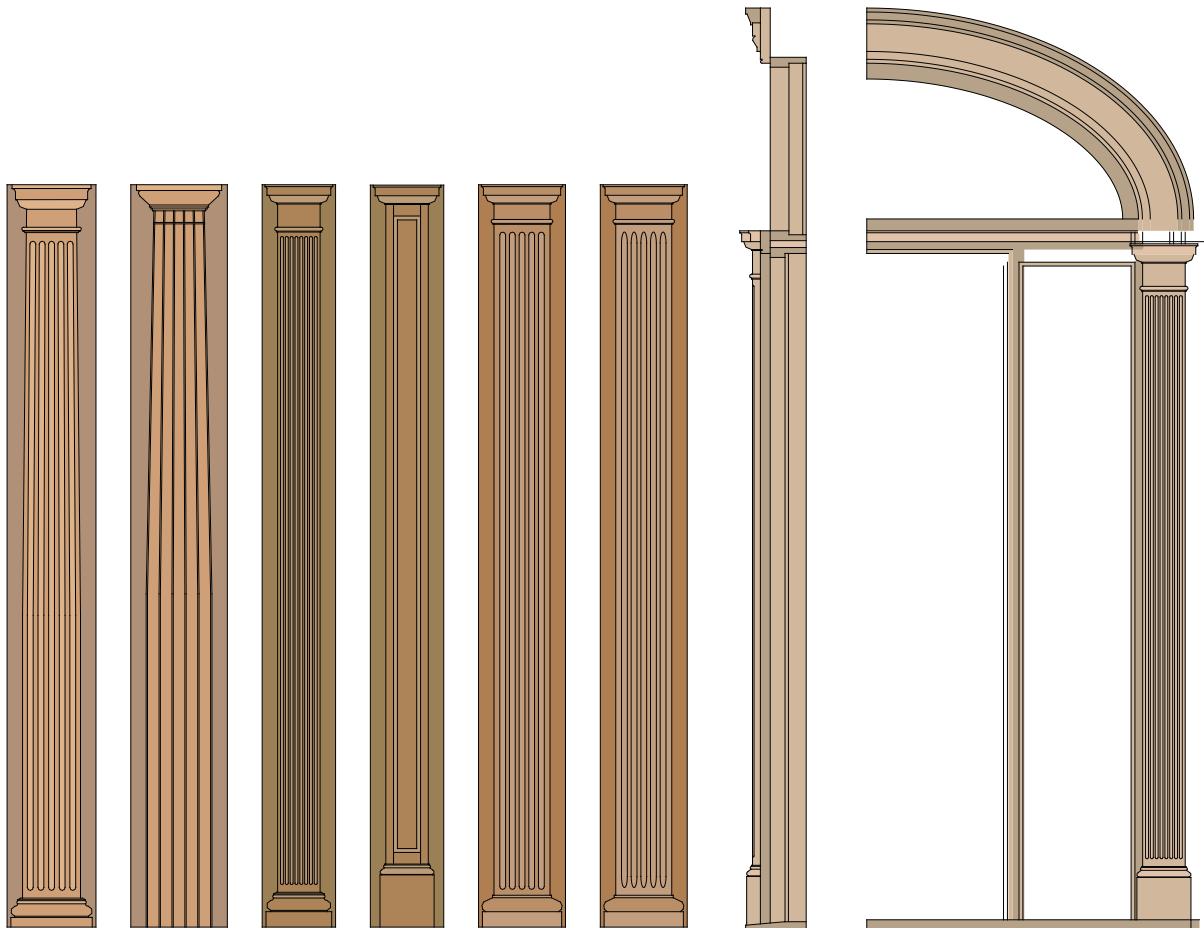
SBM 1015



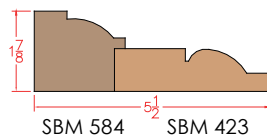
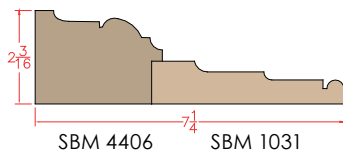
STEWART BRANNEN
MILLWORKS

PILASTERS - EXTENSION MULLS REQUIRED

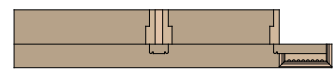
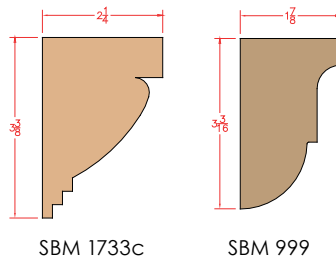
Flutes on Pilasters can be terminated with radius or elliptical ends. Pilasters with entasis can be provided if required. Extension mulls and pilasters are 1" thick. Column base moulding requires 2", which will make the extension mull 4" wider than the pilaster.

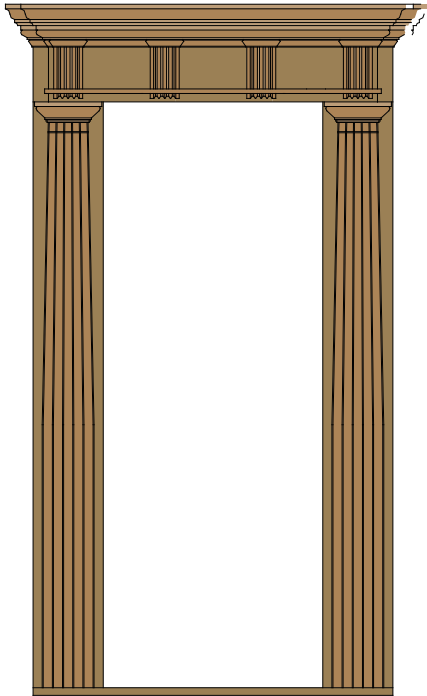


RADIUS TRIM

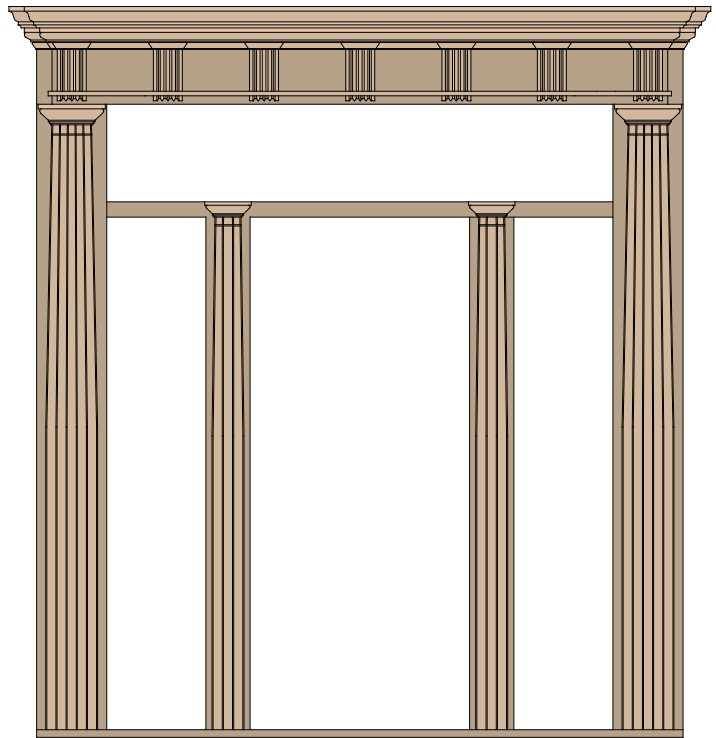


CAPITAL MOULDINGS

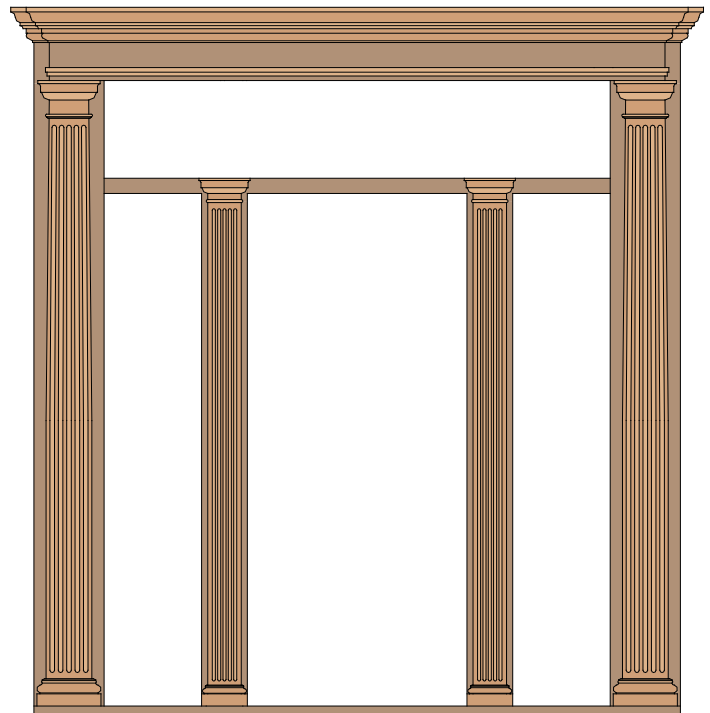
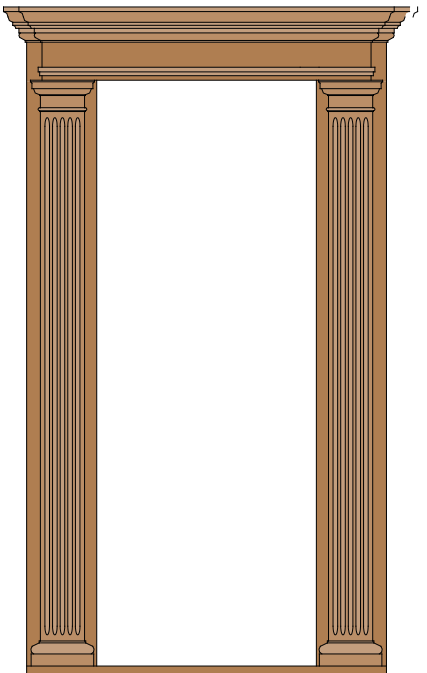




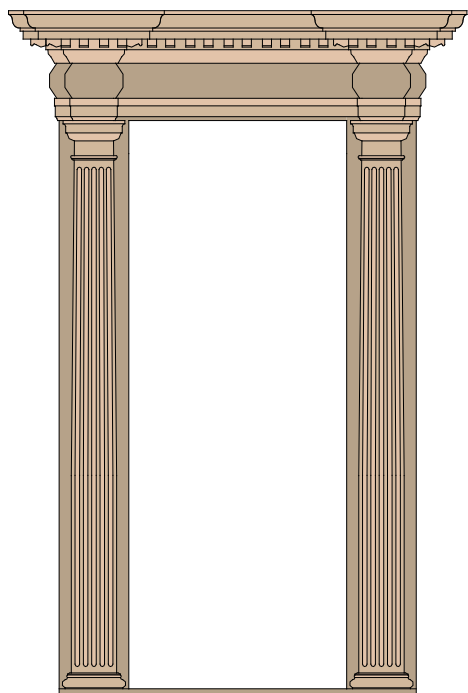
Doric Entry Door Frame



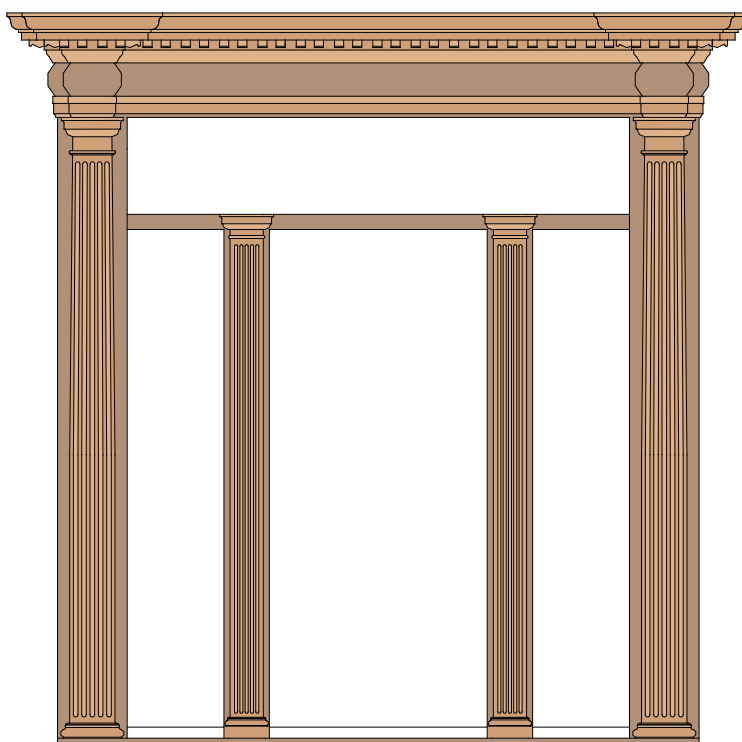
Doric Sidelite Entry Door Frame with Transom



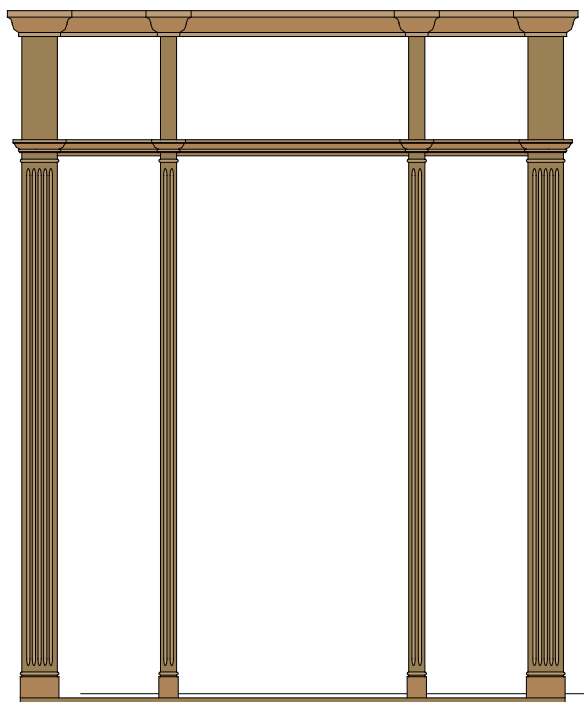
Ionic Sidelite Entry Door Frame with Transom



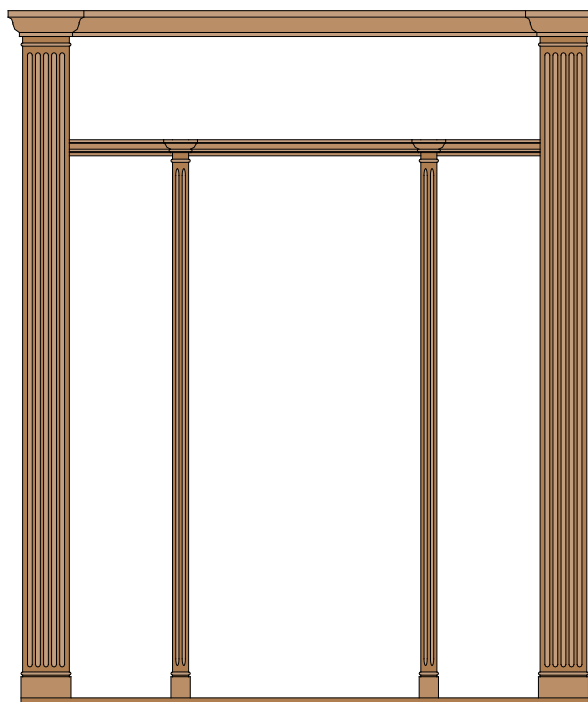
Composite Entry Door Frame



Composite Sidelite Entry Door Frame with Transom



Etruscan Entry Door Frame with 3pc Transom



Etruscan Entry Door Frame with Transom

ALDER



Sea Island Style



Plantation Style



Sea Island Style



Plantation Style

CHERRY

EUROPEAN CHESTNUT



French Bolection Style



Paris Mould Style





French Bolection Style



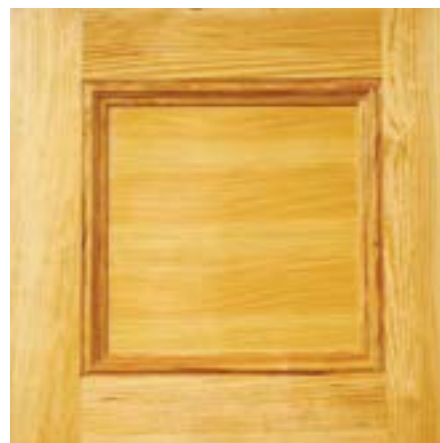
Paris Mould Style

IROKO

NEW HEART PINE



Sea Island Style



Plantation Style



French Bolection Style



Paris Mould Style

ROYAL MAHOGANY

SAPELE MAHOGANY



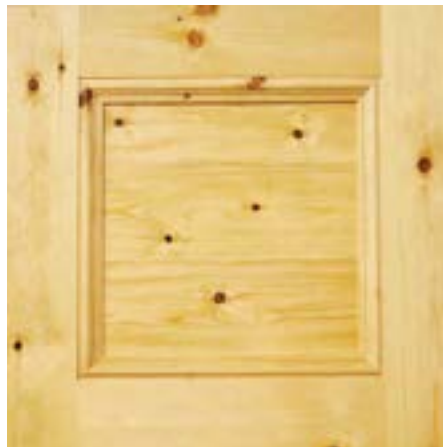
French Bolection Style



Paris Mould Style



Sea Island Style



Plantation Style

SWEDISH PINE

WALNUT



Sea Island Style



Plantation Style



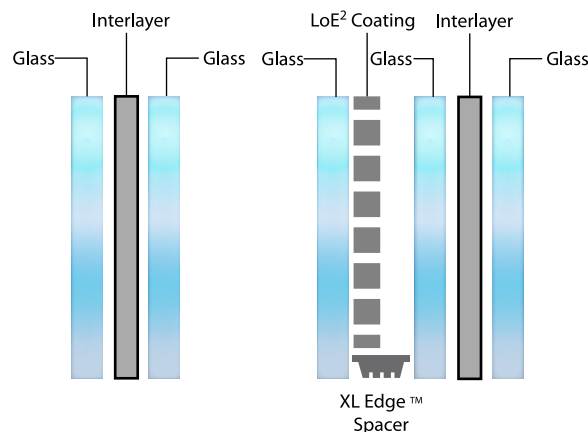
Stewart Brannen Millwork uses Cardinal Glass for all of our Insulated Glass (IG) and Impact Resistant Glass needs. The following details just a few of the benefits that Cardinal provides the end customer when using their glass.

INSULATED GLASS FEATURING THE XL EGDE™ SPACER

All of our IG units are ordered with Cardinal's XL Edge spacer and their stainless steel grilles in the air space (GIA), if applicable. The XL Edge uses a stainless steel spacer with airtight bent corners and their very own dual seal system. The benefits of having all this incorporated into their design is the unmatched 20 year, 200% credit warranty. Cardinal will back their IG units against seal failure for 20 years when using the XL Edge spacer and stainless steel GIA. Other spacers and GIA are available upon special request, but will drastically lower the product warranty. The IG units from Cardinal come in a variety of glass options including LoE² coatings, tempering, internal grilles and bars, along with custom shapes and sizes.

IMPACT GLASS - SEA STORM™ SGP®

We use Cardinal's Sea Storm SGP® Monolithic Laminated Glass (LG) in all of our Impact applications. This has been used in all our test units and approved. What separates this glass from all of the other impact resistant products is its Dupont SentryGlas® Plus interlayer. This .090" thick interlayer has five times the tear strength and is 100 times as rigid as a standard PVB interlayer. The SGP interlayer is available only in clear, but it can be laminated with any of the standard colors of glass and with the coating. We also offer IG Impact glass, which uses the standard Sea Storm SGP Monolithic LG and combines it with Cardinal's insulating glass system. This gives the end customer the best of both worlds.



PRESERVE FILM

All of our insulating glass (IG) units from Cardinal come covered with Preserve™. This is a great option that will be sure to make the cleanup and finishing process even easier for the end customer. Preserve is a removable protective film that is applied by Cardinal. The film keeps the glass clean and protected from the normal construction problems. When the job is complete, all you have to do is peel off Preserve and simply throw it away.



NEAT GLASS (LOW MAINTENANCE GLASS)

Cardinal also offers the next generation of it's own Plus glass, the new Neat Glass. Neat is an invisible, but durable coating of silicon dioxide applied to the exterior of the glass. This glass will stay cleaner, dry faster, and reduce possible water spots by dispersing the water more evenly across the surface. The glass reduces dirt build up and water spots when activated by sunlight. It is available on all insulated glass units. The glass can be combined with Preserve film to give you the easiest to clean glass in the industry.

GLASS OFFERED FOR DOOR UNITS

Regular Door Glass

Single Glaze Clear
 Single Glaze Antique
 Single Glaze Clear Beveled
 Single Glaze Narrow Reeded
 Single Glaze Pattern 62
 Single Glaze Rain
 Single Glaze Gluechip
 Single Glaze Flutex
 Single Glaze Florex
 Single Glaze Aquatex
 Single Glaze Hammered
 Single Glaze Industrex
 Single Glaze Flemish (Glacier)
 Single Glaze Tint

Insulated Clear
 Insulated Clear Neat
 Insulated LowE- 366
 Insulated LowE- 366 Neat
 Insulated Antique
 Insulated Clear Beveled
 Insulated Narrow Reeded
 Insulated Pattern 62
 Insulated Rain
 Insulated Gluechip
 Insulated Flutex
 Insulated Florex
 Insulated Aquatex
 Insulated Hammered
 Insulated Industrex
 Insulated Flemish (Glacier)

Impact Door Glass

Impact Single Glaze Clear
 Impact Single Glaze Tinted
 Impact Single Glaze Turtle Glass
 Impact Insulated Clear
 Impact Insulated Clear Beveled
 Impact Insulated Clear Neat
 Impact Insulated LowE-366
 Impact Insulated LowE-366 Neat
 Impact Insulated Tinted
 Impact Insulated Turtle Glass



SAMPLE PICTURES OF PATTERNED GLASS



AQUATEX



FLOREX



FLUTEX



HAMMERED



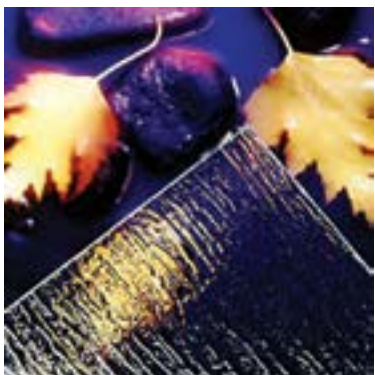
INDUSTREX



NARROW REEDED



GLUECHIP



RAIN



PATTERN 62



Sapele Mahogany



Sapele Mahogany



Iroko



European Chestnut



Sapele Mahogany





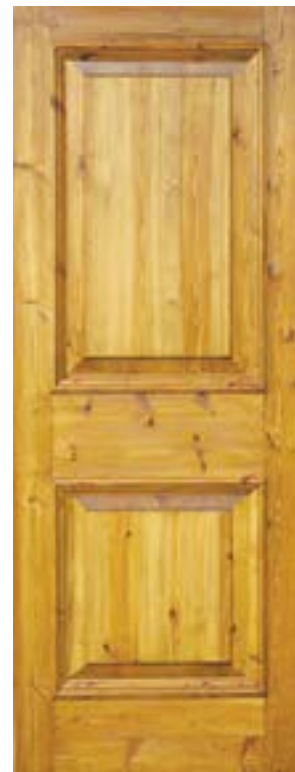
Paris Mould Style



Sea Island Style



Paris Mould Style



Sea Island Style

We offer hand distressing as an option on some of our doors. This option gives the doors some character and they look as though they have been around for a very long time. The distressing lends itself to a wide variety of architectural styles and time periods.

The basic level of distressing is a light distress. First the door will be either hand planed or wire brushed. The distressing is characterized by worm holes, scratches, small surface dents and dings over the face of the doors and trim. The majority of edges will be rounded and well worn. The light distress gives the door a natural, aged look and feel.

The other distressing option is a heavy distress. It consists of a light distress with additional planer chatter, heavier scratching and gouging. It will have broken, or deformed panel edges and sticking, and in general, a more weathered look.





Sea Island Style



Sea Island Style



Sea Island Style with Mortise & Tenon construction



Paris Mould Style



LIMITED WARRANTY

PRODUCTS SUPPLIED WITHOUT A FACTORY FINISH

All exterior products manufactured by Brannen Millwork Company or Stewart Brannen Millwork Company hereinafter referred to as THE MANUFACTURER (except those products expressly excluded from this warranty) are guaranteed for two years from date of shipment to be of good material and workmanship and to be free from defects at the time of shipment that would render them unserviceable or unfit for the ordinary purposes for which each product is recommended. Western Red Cedar, V.G. Fir, Sapele, Sipo, Spanish Cedar, Swedish Pine, Cypress, Mahogany, Cherry, Walnut, New Heart Pine and Heart Pine are considered exterior woods and are covered in this warranty. Interior products are guaranteed for five years.

THE MANUFACTURER will at its option, either (1) repair the product without charge, or (2) replace the product without charge in the same state of fitting and/or finishing as it was originally supplied or (3) refund the price received for the products, if the product is found not to comply with this warranty. The manufacturer shall not be liable for products repaired or replaced without its prior consent. Action on any claim for warp may be deferred at option of the manufacturer for a period not to exceed six months from the date of claim. All glass claims/failures will be deferred to the glass supplier's warranty.

A replacement door or part will be as originally purchased from THE MANUFACTURER, and specifically does not include freight, finishing or installation charges. It is understood that if merchandise is determined to be defective when a shipment is received, written notice must be sent to Brannen Millwork Company **immediately after receipt of the doors and before any hanging, fitting, or finishing charges have been incurred.**

To clarify further: if a visible and/or apparent defect exists upon your receipt and inspection of a door or doors from THE MANUFACTURER, it is imperative that we be notified before any further costs are incurred on that door or doors. We will not assume any liability for those costs.

Upon receipt of one or more of our doors, **any plastic wrap on the doors must be maintained intact until the doors are finished and the doors must be stored in a proper environment (defined as a controlled environment in which the relative humidity is no less than 40% and no greater than 60%).** It is required that you inspect the door or doors immediately. You should be checking:

- For the possibility of freight damage.
- To verify that you received what you ordered.
- That each door is flat and straight and has no defects.

If there is freight damage, please note it on your freight bill and immediately notify THE MANUFACTURER so a freight claim can be filed.

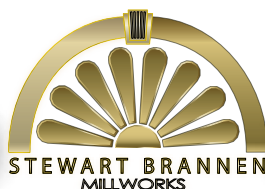


Allowable Tolerances

Sashes shall be manufactured to a thickness tolerance of $+ 1/16"$ [$+ 1.6\text{mm}$] of specified thickness. Warp shall not be considered a defect unless it exceeds $1/4"$ in the plane of the door itself on doors up to $3'0"$ wide and $7'0"$ in height, or $.003"$ per inch in height for doors taller than $7'0"$. Warp is any distortion in the door itself and does not refer to the relation of the door to the frame or jamb in which it is hung. The term warp shall include bow, cup, and twist. In measuring the amount of warp present in a door the following method shall be used: Bow, cup, and twist shall be measured by placing a straight edge, tout wire or string on the suspected concave face of the door at any angle (i.e., horizontally, vertically, diagonally), with the door out of the frame. The measurement of bow, cup, and twist shall be made at the point of maximum distance between the bottom of the straight-edge, tout wire, or string and the face of the door. All Doors taller than 8-0 must have multipoint or surface bolts applied.

Exclusions from this Warranty

- Doors that are $1 \frac{1}{8}$ inch or $1 \frac{3}{8}$ " thick and larger than $3'0"$ x $7'0"$ in height;
- Doors that are $1 \frac{3}{4}"$ thick and larger than 3-0 x 8-0;
- Doors that are $2 \frac{1}{4}"$ thick and larger than 3-6 x 8-0;
- Doors that are $2 \frac{11}{16}"$ thick and larger than 4-0 x 10-0;
- Water infiltration on door units built using the basic or standard frames. All side hinged doors will leak if there is enough wind pressure on them, which is why the building codes exclude them from the water test. Our inswing rated units in standard frames pass the water test at Zero pressure only. Our outswing doors with our impact bumper sills will pass the water test at the units rated design pressure;
- The appearance of field finished products is not covered by this warranty in any event;
- Natural variations in the color or texture of the wood are not to be considered as defects;
- Surface checking wood, panels, and joint shrinkage less than $.05"$ wide by 30% of the joint length are not considered defects;
- Failure to follow the "Handling, Storing, and Job Finishing Instructions" as outlined in this warranty;
- Failure to install the product with the sill level, jambs plumb and all frame parts in the same plane;
- Any product repaired, returned or replaced without prior consent;
- This warranty does not cover any deterioration caused by failure to protect and finish all exposed surfaces (all six sides) and edges of the product immediately upon installation or removal of plastic wrap and finish must be maintained by homeowner;
- Panel splits in edge glued panels;
- No warranty on gates, or doors used in a gate application;
- Doors that have solid stiles specified by the customer are excluded from this warranty;
- Any special custom product manufactured according to the customer's specifications



- Damage caused by others, or by any cause outside the control of Brannen Millwork Company, including but not limited to damage caused by misuse, abuse, accidents, mishandling, or by fire, flood, earthquake, storm, or other acts of nature;
- Excessive trimming of a door: more than ½" in width;
- Panel shrinkage and misalignment, which leaves an unstained line along the edge of the panel, this is caused by differences in temperature and humidity, and is not a defect;
- **Slight expansion and contraction of the door due to changes in temperature and humidity are not defects (once the door achieves equilibrium with its environment slight trimming and a touch-up of the finish can be expected);**
- Wood sills.

GLASS WARRANTY

Insulated Glass: THE MANUFACTURER warrants that each glass product will be free from material obstruction of vision as a result of fogging or film formation on the internal glass surfaces caused by failure of the hermetic seal due to defects in material or workmanship, for a period of twenty years from and after the date of THE MANUFACTURER manufacture of the product. If any breach of this warranty is reported to THE MANUFACTURER before the end of the tenth year from the date of manufacture, THE MANUFACTURER will:

- Provide a replacement product and re-glaze the product. We will not be responsible for refinishing the sash or door.
- The warranty there on will extend for the balance of the original ten-year period.

Impact Rated Glass: THE MANUFACTURER warrants that laminated glass products will not have defects in material or workmanship for a period of (10) years from the purchase date, which cause delaminating of the laminated glass resulting in materially obstructed vision through the laminated glass.

If any breach of the preceding limited warranty respecting laminated glass is reported to THE MANUFACTURER before the end of the limited warranty period by the customer, THE MANUFACTURER will:

Provide a replacement product and re-glaze the product. We will not be responsible for refinishing the sash or door.

Scratched glass- We carefully examine all glass before installing it into our product. We expect you to inspect the product when you receive it. A claim for scratched glass must be made within 10 days of receiving the product or we will assume that the glass scratches were created on the jobsite.



EXTENDED WARRANTY (PRODUCTS SUPPLIED WITHOUT A FACTORY FINISH)

The customer may extend the exterior door warranty to five years from the purchase of product by completing the registration form and the requirements therein and submitting it to THE MANUFACTURER. The customer will receive a return letter stating enrollment in the extended warranty program. The extended warranty requires receipts showing purchase of approved finish material when the doors were installed. The extended warranty also requires maintenance of the finish to be applied between 12 to 24 months and then again 36 to 48 months from installation date. This must be documented with receipts of approved finish material. The documentation must be shown in the event of a claim. Enrolling in the extended warranty gives the manufacturer permission to make photographs of product for use in marketing materials for THE MANUFACTURER.

PREFINISHED WINDOWS AND DOORS BY THE MANUFACTURER

In order to facilitate the installation of our products, THE MANUFACTURER offers our products with a factory applied finish. We use the finest finish system available. We deliver the product with a complete finish applied which allows the product to be installed immediately into the openings. It is very unlikely however; that our products will be properly installed without incurring any marks and/or scuffs in the finish and the exterior trim will typically also have to be fastened to the framing. Some exterior trim will have to be shipped loose due to size of trim or multiple units may be jobsite installed and then trim applied. The anchor holes will need to be filled or plugged depending on the fasteners used. This means that it is impossible to install a prefinished unit from THE MANUFACTURER that will not have to be touched-up or recoated on the jobsite after it is installed. Our products can be quite large and are very heavy. It is unrealistic for the homeowner to think that pre-finished products from THE MANUFACTURER will be shipped and installed without a blemish to the finish on the product, in fact, proper installation will require the product to be touched up or recoated.

The finish applied by THE MANUFACTURER will have to be scuff sanded with fine sand paper and then recoated with an approved product at least on the areas where the finish has been altered.

FINISH WARRANTY

Painted and/or Pigmented Products: THE MANUFACTURER warrants its "Coastal Shield" finish system for a period of five (5) years from the date of delivery of the products. For this warranty to apply, the Buyer shall maintain the wood surfaces at least two (2) times a year, using only the maintenance products contained in the "Tips and Care Kit" supplied with the products, or any other maintenance product previously approved by Stewart Brannen. The products can only be applied at temperatures of fifty (50) to ninety (90) degrees Fahrenheit (10-30 degrees Celsius). A thorough maintenance of the wood surfaces will extend the duration of the finish while also refreshing its color and gloss.



Stained Products: THE MANUFACTURER warrants its "Coastal Shield" finish system for a period of three (3) years from the date of delivery of the products. For this warranty to apply, the Buyer shall maintain the wood surfaces at least two (2) times a year, using only the maintenance products contained in the "Tips and Care Kit" supplied with the products, or any other maintenance product previously approved by Stewart Brannen. The products can only be applied at temperatures of fifty (50) to ninety (90) degrees Fahrenheit (10-30 degrees Celcius).

A thorough maintenance of the wood surfaces will extend the duration of the finish while also refreshing its color and gloss. The warranty will not apply in the following conditions:

- Swelling of the wood due to an excessively high interior humidity;
- Misuse of the products;
- Inappropriate treatment (aggressive agents) or damages caused by impact;
- Color or surface differences due to the nature or characteristics of the wood;
- Damage subsequently caused by other workers on the site;
- Normal reduction of brilliance.

MAINTENANCE:

Proper Procedures for Cleaning Cardinal Architectural Glass:

1. Initially spray glass with standard approved glass cleaners such as Windex®, Vinegar/Water, Isopropyl alcohol/Water or Rain-X® Glass Cleaner.
2. Wipe dry using paper towel. If possible use the Sellars® brand of shop paper towels. Unlike common paper towels these do not leave a residue on the glass. This should be adequate for routine window maintenance.
3. In the event of stubborn residue that cannot be removed with the above steps the following light abrasive cleaners are approved to be utilized:
 - Cerium Oxide (Comes in a powder form to be mixed as a paste)
 - Soft Scrub® non-bleach cleaner
 - Crest® toothpaste (white not gel)
 - Mr. Clean® Magic Erasers
 - 3M® Light Duty Scouring Pads

All of the cleaners listed above have a light abrasive which will mechanically remove the stubborn residue from the glass, without scratching the glass.

4. Spread the light abrasive cleaner onto a moist paper towel, apply to glass. Rub in a circular motion over the area with the stubborn stain. It works best to clean a 2 X 2 foot area at a time. Depending on the stubbornness of the residue, more than one application of the mild abrasive cleaner may be required. After cleaning with the mild abrasive cleaner, wipe the area with tap water. It may take additional cleaning with water to remove the residue left from the mild abrasive cleaner.
5. Do a final cleaning with soap and water.



Periodic Maintenance of Windows and Doors:**A. General Cleaning Information:**

1. Common household or light industrial cleaners are recommended.
2. Squeegees are the most effective method for cleaning glass and are necessary for exterior cleaning from interior of unit.

B. Cleaning and Maintaining Hardware:

1. The cleaning of hardware is best accomplished by brushing out or wiping all hinge tracks to free dirt and dust. Light washing should restore all finished surfaces to original appearance.
2. Periodic checking and adjustment of all screws may be necessary as some may loosen over an extended period of use.
3. If lubrication of hardware appears necessary, a light film of lubricant may be applied. Dry lubricant is recommended.

C. Maintaining Coastal Shield® Wood Finish:

1. Cleaning: This is extremely important operation that should not be underestimated. It should be carried out by cleaning external surfaces of all wooden elements once every six months to twelve months. Bi-annual cleanings are recommended. Cleaning should be performed using a product that does not contain alcohol or ammonia; these ingredients will damage the wood surface.

2. Regular Refreshment: This is very simple to do and considerably increases the duration of the coating, making renovation less frequent. This operation should be carried out once every 12 months in order to ensure fixtures remain in prime condition. After having carefully cleaned the fixture apply only refreshment products provided in the Coastal Shield Maintenance kit or other wood care products approved by Brannen Millwork. These products will restore the fixture to its original splendor and the film to its original state, regenerating the thin layer of coating that has been worn by weathering. Be sure to only apply products according to product directions distributing evenly using a microfiber cloth and polishing the surface, turning the cloth over regularly.

3. Renovation: This must be carried out when the coating has become rough to the touch and lost consistency and shine.



How to proceed:

- Clean the surfaces using above mention cleaning detergent
- Sand the surfaces using abrasive paper of grain 280. Avoid rubbing the corners too hard or color will be removed. The surface should look matte and even.
- Carefully remove all dust
- Apply a water-based top coat with a transparent brush.
- Avoid coating in the bright sunlight or below 10° C. Do not apply the coating to the rubber seals.
- Continue to renovate annually.

4. **Restoration:** This should be carried out if the coating has become matte with cracks showing.

How to proceed:

- Sand the ruined surfaces with 120 grade abrasive paper. Completely remove the whole of the flaking surface and parts of coating that are not perfectly fixed.
- Apply water based preservative to the parts where the wood is revealed, always choosing a color that is slightly lighter than the existing one, as the wood, ruined by the UV rays and weathering, is more absorbent and the fixture may otherwise be darkened excessively. Do not apply preservative to the parts of coating still present as this would prejudice adhesion of the subsequent layers of water-based coating.
- Once correctly dried, apply a water-based top coat to create a small base layer. Wait at least four hours and sand with a 220 grade abrasive paper and remove dust.
- Apply a second coat of water-based top coat. The fixtures can be re-installed 24 hours later. Avoid coating in the bright sunlight or below 10° C. Do not apply the coating to the rubber seals.

WINDOWS AND DOORS INSTALLED NEAR MASONRY OR TILE:

Skilled masons know that the brick, stone, concrete, plaster and mortar they use to construct durable buildings require considerable care to prevent them coming into contact with and damaging, other building materials prior to the building being completed.

Before Work Commences:

- All windows, doors, casings, sills and other at-risk items should be masked by competent tradespersons. The masking should not be removed until the work is fully completed. This includes sealing and painting of all mortar surfaces over which surface water will flow onto vulnerable construction components – i.e. windows and doors.
- The masking should be routinely inspected for damage as torn or loose masking will not achieve adequate protection.
- Only use masking tapes that will not leave an adhesive film or cause any damage when removed – i.e. painter's tape.

Clean-Up:

- Exercise great care with acid wash and NEVER use it above or near a window or door.
- After removing all masking products, the requirement for cleanup should be minimal. Physically touching the windows and glass should be avoided as much as possible. Instead use a low pressure hose to "soak" the window. Use a gentle window washing brush and mild detergent (pH neutral dish wash) as required. Finally rinse with clean water.



- After ensuring the clean window or door has no grit remaining, a squeegee can be used to remove the residual water film.
- Do not use cloths that might contain or transfer grit - as they will scratch the glass as well as any powder-coated or anodized finish.
- Under no circumstances should scrapers be used on glass or powder-coat and anodized surfaces.

Direct Mortar Contact:

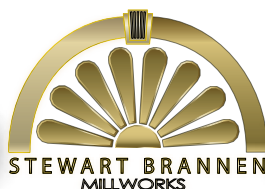
- Alkaline cement will attack the finish causing it to discolor. Strong alkaline mortar acts like a paint stripper on surface coated finishes.
- Alkaline cement can attack metals as well, for example:
 - o Aluminum
 - o Copper
 - o Lead
 - o Zinc
- Attacks on these metals can occur over a longer period of time if the building design does not adequately protect these materials by using the correct protection sealants and flashing designs.

Water Run-Off From Cement Surfaces:

- Rainwater, running over mortar and plaster surfaces dissolves the aggressive alkaline chemicals. The dissolved chemicals in the run-off water can quickly corrode the metals they come into contact with. The longer the contact period, the more severe the corrosion will become. A frequent washing regimen should be implemented for all external surfaces on the completed building.
- Alkaline cement in water run-off can irreparably damage painted and anodized surfaces. For example windows, doors, casings, fascia, and flashings.
- Alkaline cement in water run-off, can irreparably damage the glass as well.

Abrasion:

- Brick, stone, concrete, plaster and mortar can remain dusty and gritty for some time after construction is complete. Extreme care should be taken to ensure that other building products are not scratched as a result of transferring grit from the masonry products onto other building surfaces.



- Glass is particularly susceptible to scratching. Glass can be damaged from grit embedded in cleaning cloths that have been used to wash other dusty, gritty surfaces.
- Pre-finished windows and doors, as well as, any prefinished aluminum, either anodized or powder-coated is susceptible to scratching from grit contained in cleaning cloths. To avoid scratching on joinery and glass, spills are best hosed off as opposed to wiping with a cloth.
- Acid Wash:
- Some masons use an acid wash to remove unsightly mortar splashes from completed masonry work. Hydrochloric acid based washes break down the cement splashes which have occurred during the mortar process, enabling the splashes to be removed by hosing. This leaves the bricks in a clean condition.
- However, acid washes are extremely corrosive to the finish, many metals and surfaces and will attack powder-coated, anodized and glass surfaces. Some specialty glasses have invisible metal oxide surfaces which control solar radiation, preventing the solar radiation from entering the building. Acid washes can destroy this expensive solar control coating leaving it in a visually marked condition.

ANY DEVIATIONS FROM THE AFOREMENTIONED GUIDELINES PRESCRIBED FOR THE TREATMENT AND/OR CARE OF WINDOWS OR DOORS INSTALLED NEAR MASONRY OR TILE WILL BE DEEMED AS INAPPROPRIATE TREATMENT AND WILL THEREFORE EXCLUDE ALL PRODUCTS FROM THIS WARRANTY.

This document shall be deemed a warranty by description. If examples were shown to the Buyer, the same were for general informational purposes only and shall not be deemed a warranty by sample or model or otherwise have any legal effect.

The warranties in this contract are in lieu of all other warranties, express or implied, including, without limitation, any warranties of merchantability or fitness for a particular purpose, and shall be the sole and exclusive remedy available to the customer. The maximum liability, if any, of Stewart Brannen for all direct damages is limited to an amount not to exceed the price of the particular goods. In no event shall Stewart Brannen be liable for any special, incidental or consequential damages, including, without limitation, lost revenues and profits, even if it has been advised of the possibility of such damages.

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