

GLASSCRAFT DOOR COMPANY

2002 Brittmoore Road
Houston, Texas 77043-2209

Wood Door Finishing, Care and Installation Guidelines

Effective January, 2015

This guide includes the following information:

- *Wood door prefinishing services and touch-up kits*
- *Field finishing guidelines*
- *Prefinishing costs*
- *Roof overhang requirements*
- *How to measure a warped door*
- *Installation cross-section drawings and door handing chart*

Contact Us

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Hours of Operation

Monday through Friday
Eastern 9:00 AM–6:00 PM
Central 8:00 AM–5:00 PM
Mountain 7:00 AM–4:00 PM
Pacific 6:00 AM–3:00 PM

You are welcome to visit and tour our 185,000 square foot glass and door facility. Please call first, prior to your visit. Weekday hours are listed above. Should you wish to pick up your order, please call to confirm that the order is available for loading prior to your arrival.

Order Forms and Quotation Forms are on-line at www.glasscraft.com under the "CUSTOMER SERVICE" window... then in the "SERVICE CENTER" area.



Wood Door Finishing, Care & Installation Guidelines

This section includes the following information:

- *Door prefinishing services*
- *Receipt and field-finishing of doors*
- *Installation guidelines and required roof overhang*
- *Maintenance and troubleshooting*

Wood Door Prefinishing Services

You may order any millwork item factory prefinished, including our complete pre-hung entryways. Prices are listed in our various price lists for each catalog, and include pricing for unfinished and prefinished products. Pricing for individual doors, sidelites or transoms are listed on the next page. Ordering your door and millwork prefinished may add to the delivery time required.

Urethane Finishing Process—Our environmentally-friendly finishing system utilizes stain-and-seal urethanes. This procedure uses halogen lamp convection ovens, laser temperature controllers and robotic carts on a continuous finishing line. The finished product is applied using a controlled process to ensure a long lasting and consistent product.

Our Traditional Finish procedure produces a door with a beautiful, protective urethane finish that promotes long life and beauty, and accentuates the natural beauty and texture of the wood grain. Our experienced finishers apply only the highest quality penetrating stains and clear top coats with UV inhibitors. This ambitious finishing system assures beauty and long-lasting protection. The final top-coat provides a medium gloss finish.

Our Distressed Finish procedure produces a door with an antique and distressed appearance. This finish process is hand-applied, and each door will differ in appearance from the next. Similar to our Traditional Finish in stain and urethane top coats, this distressed finish is available in any of our finish colors. The final top-coat provides a medium satin finish.

Available Stain Colors—We have six different finish colors available. Please refer to our color guide at www.glasscraft.com for more information and photos.

Available Finish Samples—We have two “finish tower” samples available—one for mahogany and one for knotty alder. The traditional finish is shown on one side of each tower and the distressed finish is shown on the other side. Each side shows all six finish colors.

In addition, we have inexpensive “finish rings”, one each for mahogany and one for knotty alder. The hardwoods used in the manufacture of doors all vary in color and grain pattern. These differences are inherent in hardwoods, and should not be considered defects.

Wood Door Field Finishing Guidelines

All edge surfaces and front and back surfaces must be finished correctly in order to maintain our warranty on the door. Be sure to confirm that the top, bottom, and side edges of the door are finished correctly after the door is trimmed for installation. Failure to properly field-finish a wood door, including all six sides, or failure to install a wood door in an appropriate exposure will result in a voiding of the warranty.

Upon Receipt of Door

Inspect your door thoroughly. Immediately check for “squareness” or warp. **DO NOT** cut, fit, or hang any door with any noticeable damage or defects. If any type of problem is found, notify the company from which you purchased the door for further instructions. If you purchased the door directly from GlassCraft, please call our Customer Service department.

Storage and Handling

- 1) Before installing, allow 24–48 hours for the door to adapt to the general humidity and temperature conditions of your area.
- 2) Doors should always be stored flat, in a clean, dry, well-ventilated room. Protect from dirt, water and abuse. If stored for long periods, doors should be sealed with a high quality sealer or primer.
- 3) Doors should be stored in a dry area, and must not be exposed to abnormal heat, direct sunlight, direct moisture or extreme dryness or humidity.
- 4) Deliver to your building site after the plaster and cement are completely dry. Avoid prolonged exposure to heated or air-conditioned environments prior to finishing.
- 5) If the doors are to be stored on the job site, all ends and edges must be sealed with a wood sealer in order to prevent moisture absorption.
- 6) Doors should always be handled with clean hands or while wearing clean gloves, to prevent dirt and oils from penetrating the wood grains.
- 7) Doors should be lifted and carried, not dragged in order to prevent damage to the wood surface.

Wood Door Finishing, Care & Installation Guidelines

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Individual Product Finishing Costs

The cost for the finishing of a door, sidelite, transom, or jamb unit varies depending upon the products size, type of finish and production time. Suggested Retail Pricing is as follows:

Item	Traditional Finish	Distressed Finish
Doors up to 3' 0" X 6' 8" in size	\$375each	\$515 each
Doors over 3' 0" X 6' 8" (including 8' 0" high doors)	\$400 each	\$550 each
All sidelites or transom frames or sash	\$275 each	\$375 each

Refer to the prior three pages for specific finishing cost information for our individual entryway configurations. In addition, more specific prefinishing information is listed for each entryway shown in our catalogs in the individual catalog price list.

Preparation for Field-finishing

- 1) Prior to finishing, ensure that the building atmosphere is dried to a normal, interior relative humidity. Ensure that the doors have been allowed to equalize to a stable moisture content.
- 2) Doors must be finished prior to final installation.
- 3) To assure uniform moisture exposure and dimensional control, ALL surfaces must be treated equally. This includes front and back, top, bottom and 2 sides.
- 4) Before preparation and finishing, cut, fit and hang the door. Then remove the door and any hardware prior to finishing. When trimming the door, do not remove more than 1" from the bottom rail and/or 1/2" from the top rail of the door. Do not reduce the width of the door by removing more than 1/2" from either side edge. Removal of more than these amounts from the door will void the warranty.
- 5) Before applying the first finishing coat, sand entire surface lightly to remove handling marks, raised grain or other undesirable blemishes. Use 120 to 180 grit sandpaper, and always sand in the direction of the grain. Spot sanding can cause the finish to appear splotchy.
- 6) After sanding, clean the entire door with a clean cloth to remove all dust or foreign debris. (Avoid caustic or abrasive cleaners).
- 7) Certain species of wood contain chemicals which react unfavorably with certain finishes, causing dark stain spots. Where possible, the finish selection should be tested prior to complete application.
- 8) Avoid very dark stains or dark colored paints on door surfaces exposed directly to sunlight. Dark colors induce warpage.
- 9) Properly finish the entire door. Coat all 6 edges (including top, bottom, sides, and face surfaces) with each application. Adequate drying time between coats must be allowed, as the door must be dry before the next finishing step.

Exterior Finishing

Caution: GlassCraft Door Company does not evaluate all of the available paints, stains or application requirements. Contact your paint dealer for systems best suited for your geographic region. Select only top quality finishes, and follow all of the finish manufacturer's complete instructions.

Stain-and-Clear Finish

- 1) To color stain and seal, make first coat a stain or stain-and-sealer coat. All stain and clear finishes will perform better if protected from the direct effects of sunlight and moisture weathering, thereby requiring refinishing less frequently.
- 2) Make second coat a top quality sanding sealer or top coat material. Urethane-based finish systems with UV inhibitors are an excellent choice for a door finish. Be sure the door surface to be finished is satisfactory in both smoothness and color after each coat before applying the next coat.
- 3) Lightly sand with 220 to 360 grit sandpaper between each top coat. Remove dust before re-coating.
- 4) Minimum of 3 top coats (in addition to the base stain coat) on all 6 edges is required for proper protection.

Recommended staining and finishing steps:

- Remove handling marks and final sanding
- Raw wood treated with penetrating wiping stain
- Repeat penetrating wiping stain if required for desired color
- Light sanding if desired
- First coat of sanding sealer or top coat
- Fine sand by hand
- Second coat of top coat
- Fine sand by hand
- Third coat of top coat

Paint Finish:

- 1) To paint finish your door, use a solvent based primer coat and a compatible solvent based finish coat.
- 2) Sand all surfaces between all coats of primer and finish.
- 3) A minimum of three top coats on all 6 edges is recommended for proper protection.

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Installation Suggestions and Required Roof Overhang

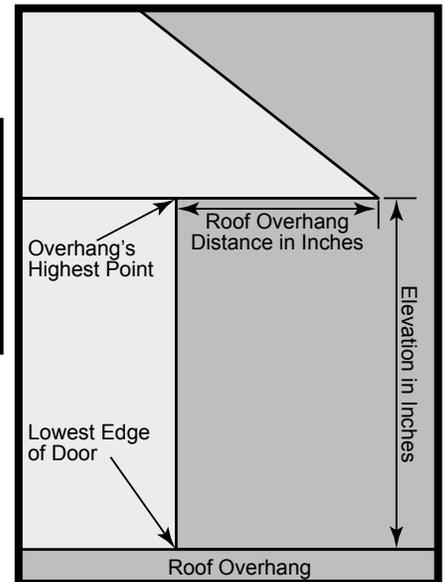
- 1) The utility or structural strength of the door must not be impaired in fitting to the opening, in applying hardware or other detailing.
- 2) Use a minimum of one hinge for each 30" of door height on all exterior doors. When using three or more hinges, they are to be equally spaced. Standard height (6'8") doors require three (3) hinges. Extra height (8'0") doors require four (4) hinges. Quality ball-bearing hinges are recommended for superior service in these hardwood door applications.
- 3) Clearances between door edges and door frame should be a minimum of $\frac{1}{16}$ " on the hinge edge, and $\frac{1}{8}$ " on the latch edge and top rail.
- 4) All hardware locations, preparations for hardware and methods of hardware attachment must be appropriate for the specific door construction.
- 5) Apply the sealer, primer or first coats of the required finish immediately after fitting, cutting for hardware, weatherstripping, etc. Be sure to finish all surfaces of the door, including those surfaces milled for the hardware prior to installation of the hardware. Also be sure to finish the top and bottom edges of the door, as well as the sides of the door, prior to installation.
- 6) Damage caused by failure to comply with this Wood Exterior Entry and Finishing Information section, failure to perform normal homeowner maintenance, or by attempts other than by GlassCraft to repair the door will void the GlassCraft warranty.
- 7) The door or entryway system must be installed in a protected opening with adequate roof overhang to protect the door and entryway. Damage may result from exposure due to installation in an unprotected opening, such as an installation without sufficient roof overhang protection. This will cause the door and/or entry system to be exposed to an unusual amount of direct sunlight and/or precipitation, which will result in the failure of the door or entryway. This damage is specifically not covered by GlassCraft's warranty.

Required Roof Overhang

Please refer to this information to ensure that your installation will provide the correct amount of protection for your wood door.

An adequate roof overhang (see drawing at right) is one in which the roof overhang projects out a distance from the structure no less than one-half of the elevation difference between the lowest edge of the door and the base of the overhang's highest point above the entryway. This calculation is shown at right.

$$\frac{\text{Roof Overhang Overhang distance}}{\text{elevation distance}} = 0.5 \text{ or greater}$$



Maintenance and Troubleshooting

If you maintain your door properly, it will give you years of enjoyment. The most important single method to ensure the door's longevity is to apply a high quality stain and finish. We recommend that only top quality finishes specifically produced for exterior applications be selected.

Quality of the Finish: Stain-and-clear finishes perform better if protected from direct sunlight, moisture and other weathering conditions. Refinishing will be required less frequently if a proper finish is initially added to the door. Some finishes on exterior doors deteriorate relatively quickly with exposure to the environment. In order for your exterior door to continue receiving the protection required, inspect the condition of the exterior finish at least twice a year and refinish as often as needed to maintain the protective integrity of the finish. If required refinishing is not completed as needed, you will allow moisture to enter the wood in the door. This will cause the door to warp or crack, and will void any warranty claims. Inspect the finish on all six sides of the door.

Binding or Sticking of the Door: Ensure that the door(s) continues to swing freely, does not bind in the frame, and that all hardware remains completely functional. If the door begins to stick or bind in the door frame, sand the edge of the door (use an electric sander or a hand plane) to trim the door so that it does not bind or stick. Be sure to refinished the newly sanded exposed area. Usually, it takes as long as one year for a wood door to acclimate to it's installation surroundings.

Cleaning the Door: Cleaning of the door is best performed by simply dusting the interior and exterior of the door using a soft, clean cloth. If required, a very mild soap and water solution may be needed to remove dirt from the door. Do not use any abrasive detergent or solvent based product, as these products will harm the quality of the finish.

White or Unfinished Lines around the edges of the panel are caused by the normal contraction and expansion of the "free floating" panels in the doors, due to varying climatic conditions such as dry or hot weather. If the panels were nailed in place, they would crack during these conditions. Use a standard wood stain to touch-up and eliminate this line.

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How to Measure a Warped Door Panel

The terms Bow, Cup and Twist are all terms used to describe a warped door panel. A Bow is a curvature along the door height. A Cup is a curvature across the door width and a Twist is when one corner is distorted out of the plane of the other three corners.

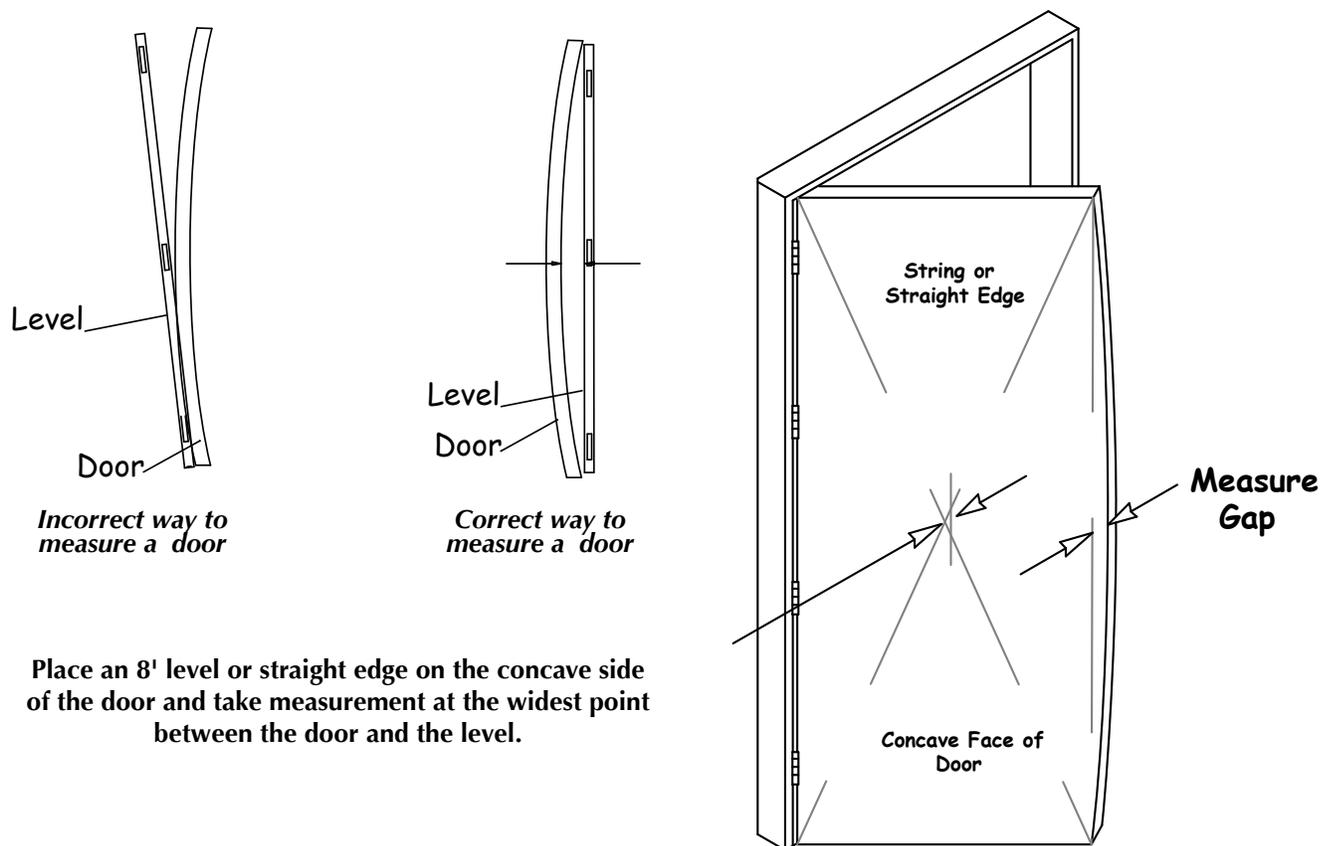
To inspect a door for warp, with an 8'-0" level or straight-edge measure the concave face of door – diagonally, horizontally or vertically. Measure at the point of maximum distance between the level or straight-edge and the face of the door. The door must be open when taking measurements and should not be measured in relationship to the door frame.

GlassCraft Warranty allows for a warp of up to 1/4" in any plane of the door for any 6'8" tall door up to 36" wide, and a warp of up to 1/2" in any plane of the door for doors taller than 6'8" and up to 8'0" tall and up to 42" wide. Doors wider and/or taller are not covered by a warranty against warping.

There are many reasons a door can become warped, such as relative humidity, temperature range, improper handling, stacking and storage. For more information on preventing warping please refer to our finishing, installation, maintenance and warranty information provided by GlassCraft.

Door should be open when measuring for warping. A door may not fit into the frame properly but is not warped. In these cases, check the frame installation as the frame may not be set plumb, level and square and the jamb should be in alignment.

Action on any claim for warp may be deferred for up to the full period of the warranty to permit doors to acclimate to temperature and humidity conditions.



Wood Door Finishing, Care & Installation Guidelines

Traditional Finishing Kit



Stain

Top Coat

Packed and shipped with 1 qt. size jug of Stain, Top Coat, ScotchBrite® sanding pad, and instruction guide

Distressed Finishing Kit



Stain

Top Coat

Glaze

Packed and shipped with 1 qt. size jug of Stain, Top Coat, Glaze, ScotchBrite® sanding pad, and instruction guide.

Cinnamon Red Traditional	# GCRKCRT	\$49.95
Canyon Brown Traditional	# GCRKCBT	\$49.95
Burgundy Cherry Traditional	# GCRKBCT	\$49.95
Sierra Brown Traditional	# GCRKSBT	\$49.95
Winter White Traditional	# GCRKWWT	\$49.95
Natural* Traditional	# RKCLRSTC	\$31.95

Cinnamon Red Distressed	# GCRKCRD	\$79.95
Canyon Brown Distressed	# GCRKCBD	\$79.95
Burgundy Cherry Distressed	# GCRKBCD	\$79.95
Sierra Brown Distressed	# GCRKSBD	\$79.95
Winter White Distressed	# GCRKWWD	\$79.95
Natural* Distressed	# GCRKBD	\$56.95

Please note: Natural* Traditional and Distressed finish kits will not include a Stain; Do not use kits that are more than 1 year old.

To order the finishing kits: Email orderentry@glasscraft.com, or call 713-690-8282.

Maintain your Investment and Protect your Door

Wood door finishing kits can be used to stain and finish a raw wood door or to refinish a previously finished door. The kits are shipped with a scotch brite sanding pad and qt. size jugs containing enough stain and top coat to finish one complete 3'0" x 8'0" door on all 6 sides. .

Be sure the door surface to be finished is satisfactory in both smoothness and color after each coat before applying the next coat. Lightly sand with 220 to 400 grit sandpaper between each top coat. Remove dust before recoating.

Apply a minimum of 3 top coats (in addition to the base stain coat) on all 6 edges as required for proper protection.

Please read and follow all manufacturer's instructions and product labels before using any GlassCraft Door Company Finishing Kit.

You may visit www.glasscraft.com or refer to the complete instruction guide that goes with your order of GlassCraft's wood finishing kits.

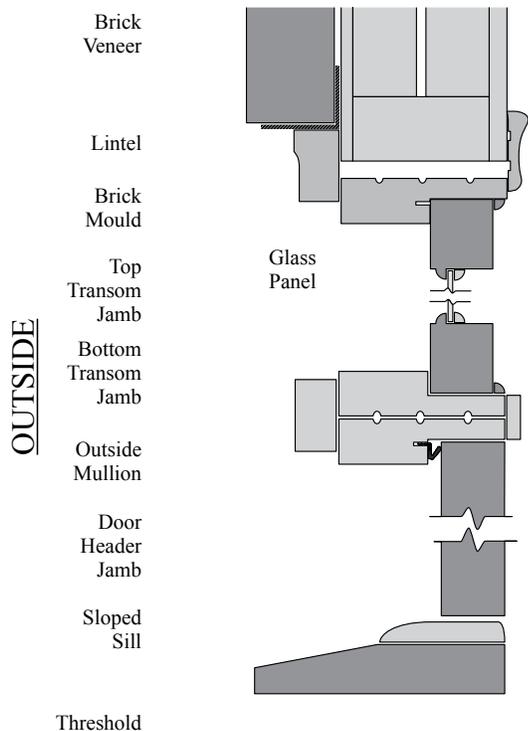
Please bear in mind that all stain and clear finishes will perform better if protected from the direct effects of sunlight, moisture and weathering, thereby requiring less frequent refinishing.

Order the finishing kits by Sending an email to orderentry@glasscraft.com, or calling 713-690-8282.

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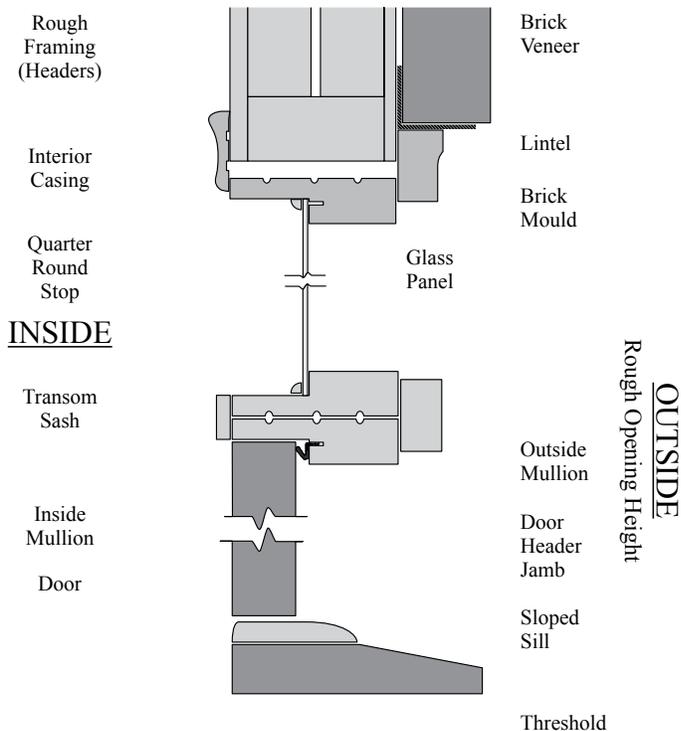
Jamb Section—Door and Sash-Set Transom

Brick Veneer, Drywall, & Brick Mould
View from Side



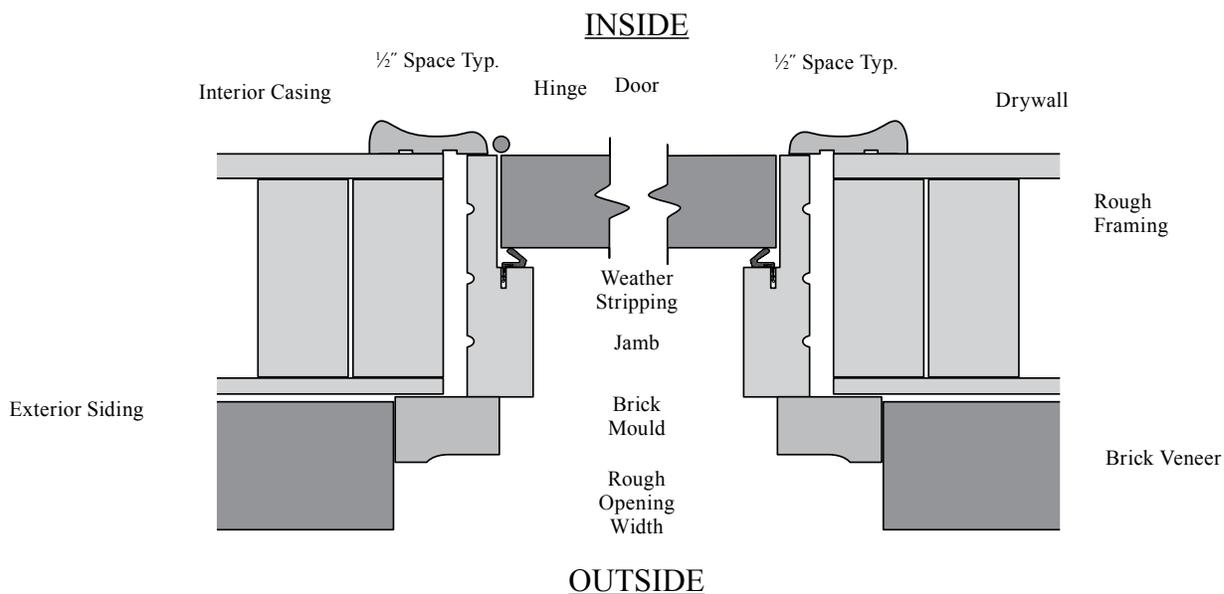
Jamb Section—Door and Direct-Set Transom

Brick Veneer, Drywall, & Brick Mould
View from Side



Jamb Section—Single Door Entry

Brick Veneer, Drywall, & Brick Mould
View from Top

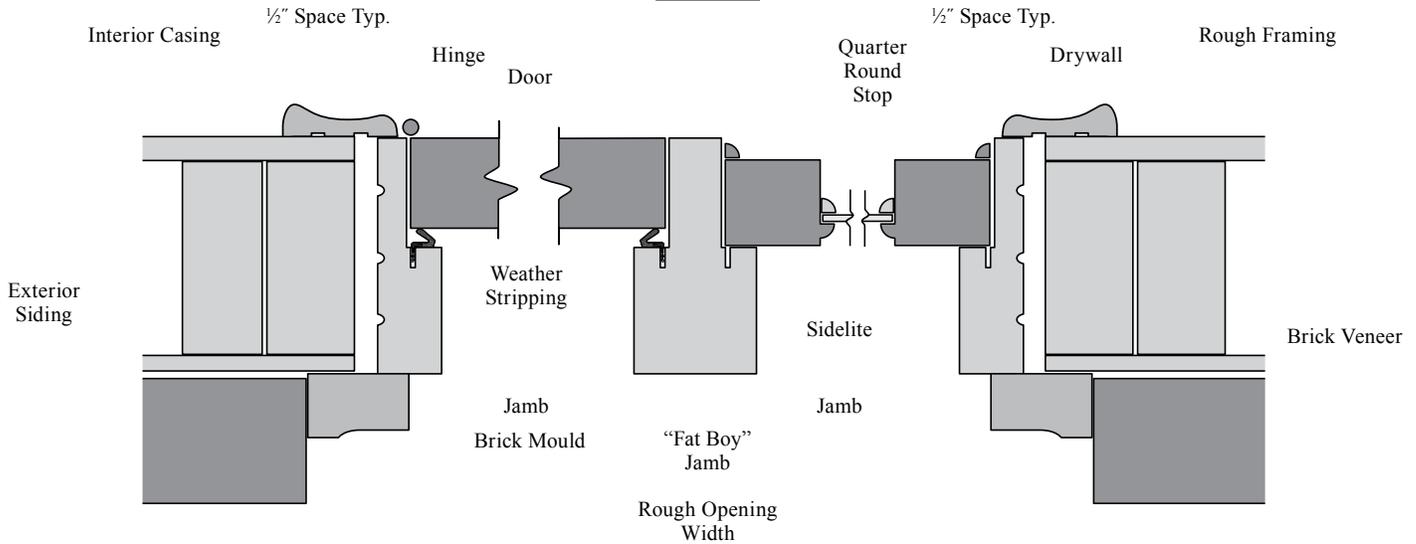


Wood Door Finishing, Care and Installation Guidelines

Jamb Section—Single Door with Sidelite Entry

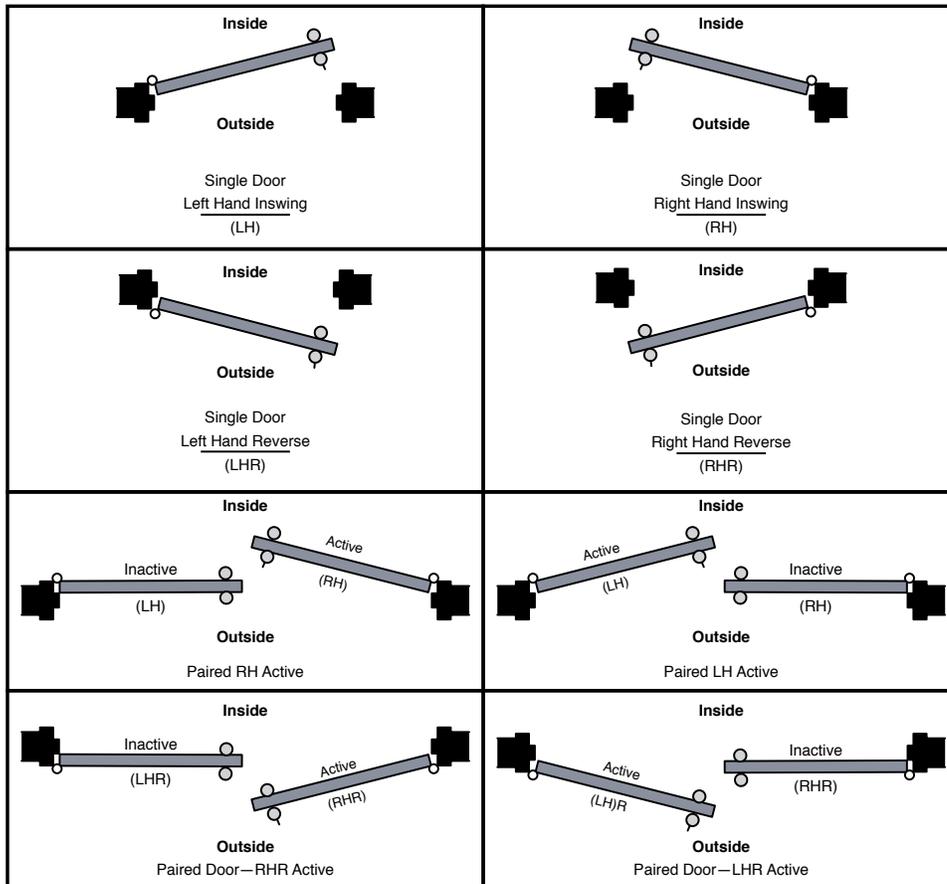
Brick Veneer, Drywall, & Brick Mould
View from Top

INSIDE



OUTSIDE

Standard Door Handing Chart



Indicates Entry or Keyed Side of Door (Active Door of Pair)