

SIDE-HINGED DOOR UNIT INSTALLATION INSTRUCTIONS

Some swelling designs/conditions may require special installation steps. Consult your architect, design professional and/or product manufacturer for additional guidance.

Required Tools & Materials

- safety glasses
- gloves
- measuring tape
- power screw gun with arrangement of screw bits
- caulking gun
- 2 tubes of paint grade exterior caulk (latex, silicone or butyl)
- corner seals
- 2-1/2" wood screws
- 24" to 48" construction level
- 24" framing square
- screw driver with screw bits
- fiberglass insulation on floor areas where weatherstripping and installation foam
- finish nails suitable for attaching interior and exterior trim

Critical Point: Although all steps are critical, this symbol identifies procedures requiring extra attention.

Check Your Work: This symbol identifies when the work should be checked for correctness before continuing with installation.

PLEASE NOTE: Failure to install this unit in accordance with architect, design professional or product manufacturer's instructions will have a direct effect on the units performance and/or long term wear. Installer shall be experienced in performing work required and shall be specialized in installation work similar to that required for this project. Warranty claims are subject to site inspections by a qualified manufacturer's representation to establish probable cause and proposed corrective action.

Step 1: Prepare Rough Opening



- Ensure that the following conditions are met:
 - Clean, clear work area
 - The rough opening (RO) is ideally 2-1/2" wider and 1/2" taller than the outside frame dimensions of the door unit. Units intended for installation in hurricane prone regions require less clearance between unit and RO (1/4" sides & top).
 - The RO is plumb, square and level
 - The old door frame has been completely removed in retro-fit installation
 - When replacing existing door units, ensure products are properly disposed and recycled in safe manner.

If disturbed existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). For proper management of lead paint, see www.epa.gov/lead.

- The sub-floor area is clean, dry and level
- The existing sub-floor area is at least 5" deep for 4-9/16" frames and at least 8" deep for 6-3/16" frames.
- Apply flashing in a manner to prevent entry of water into the wall cavity in accordance with flashing manufacturer's instructions.

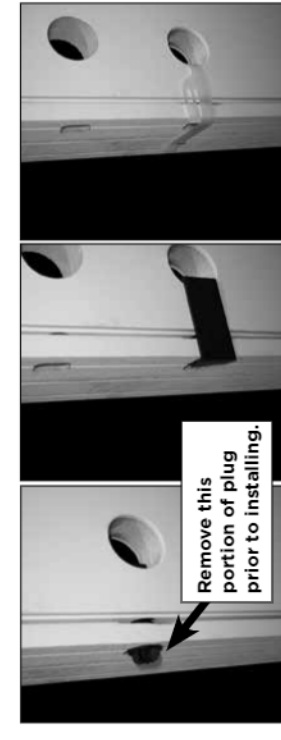
Because a solid, level sub-floor is absolutely essential for proper door unit installation, do not proceed with the installation until the sub-floor is both solid and level.



Variations in threshold design may require that the caulk lines be applied directly to the bottom of the door unit to ensure a necessary weather-seal. Inspect the bottom of door unit to confirm it features a flat surface before caulking the sub-floor area.

Apply three 1/4" lines of caulk along the length of the sub-floor, the first line starting approximately 1" from the inside edge. The lines should be about 1" apart.

Step 3: Prepare Door Unit



Some door units may be supplied with a "tip" or "plug" holding the panel aligned and closed during the initial installation steps. Do not remove at this time. Some door units may be supplied with a double-headed nail or screw holding panel closed - this needs to be removed at this time.

Step 4: Place Door in Rough Opening



Door units featuring multiple door panels or glass inserts are heavier and more difficult to handle - do not attempt to handle without assistance.



Stand on the outside of the doorway. With the exterior side of the door unit facing you, tilt the door unit toward you (Figure 5). The brickmould (not supplied with all units) should rest up against the siding of the exterior wall (Figure 6) and should slide into the RO of a brick home (Figure 7).

If door unit is supplied without a clip or plug holding door aligned and closed, do not leave the door wide open during installation. The weight of the door may cause it to fall and cause injury.

Step 4: Place Door in Rough Opening

Instructions vary according to door type. Confirm which door type is being installed. Some door styles not available in all markets. For single door unit, use Step 5A. For double door unit, use Step 5B. For single door unit with one or two sidelites, use Step 5C.



INFORMATION PANEL

How to Plumb the Door

For all door types, it is essential that the frame is in a straight, vertical plane and is not twisted. Check alignment using this method: Stand on the outside of the door. Check that the weather-stripping on the latch side is evenly compressed along the entire height of the door slab without any pinching or gaps (Figures 8 and 9).

DO NOT utilize the wall to square and level unit. Unit must be square and level to insure proper operation and performance.



How to Fasten the Door

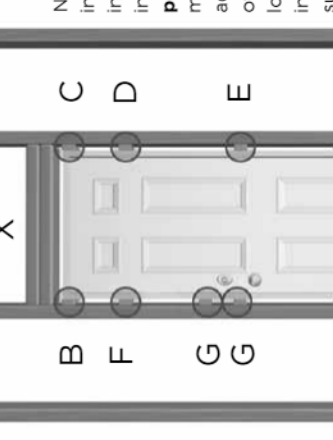
After shimming, the door is fastened to the studs by installing screws through the jambs, shims and into the stud.

Screws located in hinge or strike position shall be placed in the thin (rabbit) section of frame, other screws shall be placed in thick (stop) section of frame. Wide frames should be attached with a screw in both sections of the frame to minimize rotation.

When shims are properly installed, the frame should not move or twist when the screws are tightened and counter-sunk, thus maintaining the 1/8" gap between the edge of door panel and frame. If there is any movement, loosen the screws and shim tighter to maintain the 1/8" gap, then re-tighten the screws.

Step 5: Shim and Fasten

Step 5A: For single doors



Note: Units intended for installation in hurricane prone regions may require additional points of attachment. See local retailer for installation sheet supplement.

Stand on the inside of the door and center the door in the opening. Shim tightly at the bottom corners of the door unit (Points A in Figure 10).

This will keep the door centered and the frame tight against the sill. Shim the top of the door on the latch side (Point B in Figure 10). Install shims until there is a consistent 1/8" gap between the top of the door slab and the frame header.

Shim the hinge-side of the frame (Point C in Figure 10). This will hold the door tight in its position relative to the frame. The door should operate freely with nothing but shims holding it in place.

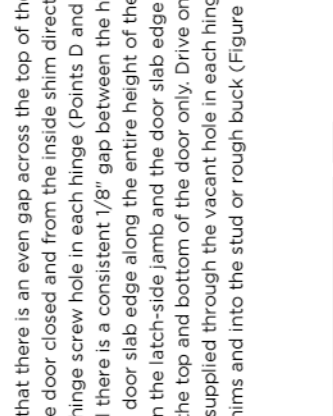
CAUTION: Do not open door panel greater than 30-degrees until 2-1/2" screws have been installed. (Points D, E, F & G in Figure 10).



From the outside and with the door closed, ensure that the frame is in a straight vertical plane (not twisted). To do this, check that the weather-stripping on the latch side is evenly compressed along the entire height of the door slab without any pinching or gaps (See Figures 8 and 9).

Step 5: Shim and Fasten

Step 5B: For double doors with concealed top and bottom flush bolts



Note: Units intended for installation in hurricane prone regions may require additional points of attachment. See local retailer for installation sheet supplement.

Stand on the inside of the door and center the door in the opening. Shim tightly at the bottom of the unit (Points A in Figure 13).

This will keep the door centered and the frame tight against the sill. Shim the top of the frame (at Points B in Figure 13). Install shims until there is a 1/8" gap between the top of the door slabs and the frame header. This will hold the door tight in its position relative to the frame. The door should operate freely with nothing but shims holding it in place.

CAUTION: Do not open door panel greater than 30-degrees until 2-1/2" screws have been installed. (Points C, D, E & F in Figure 13).

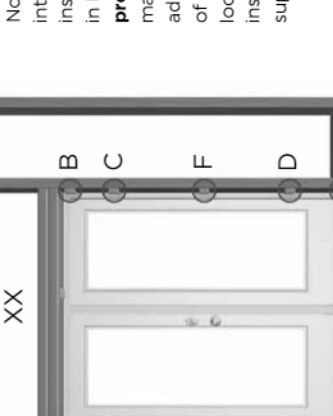
Door panels with glass inserts may sag toward the center. This is normal. To correct sagging, align the flush bolts on the fixed door with clearance in the header and sill. Most units do not have pre-drilled holes in the header and sill. Holes must be drilled. Slide top flush bolt up against header and bottom bolt down against threshold to mark. Mark where bolts make contact with header and sill with pencil. Drill holes on marks to receive bolts (1-1/2" deep minimum). Once holes are drilled, close panel and engage bolts making sure they extend far enough to secure unit.



If there is a gap between the threshold and weatherstrip block around the foot bolt, the hole is not deep enough (the weatherstrip block must touch the threshold to properly seal the unit). Shim tightly behind the vacant hinge screw hole in the bottom hinge (Point D in Figure 13) until the lower flush bolt slides freely into the clearance hole in the sill. Secure the door by driving a 2-1/2" installation screw supplied, through the hinge and jamb and into the stud. If the flush bolt does not slide freely, loosen the screw, shim more tightly and then tighten the screw.

Step 5: Shim and Fasten

Step 5C: For door with sidelites



Note: Units intended for installation in hurricane prone regions may require additional points of attachment. See local retailer for installation sheet supplement.

Stand on the inside of the door and center the door in the opening. Shim tightly at the bottom corners of the door unit (Points A in Figure 18).

This will keep the door centered and the frame tight against the sill. Shim the top of the frame, behind the latch-side jamb (Point B in Figure 18). Install shims until there is a consistent 1/8" gap between the top of the operating door slab and the frame header. Shim at the top of the frame, behind the hinge-side jamb (Point C in Figure 18) to hold the door tight in its position relative to the frame. The door should operate freely with nothing but the shims holding it in place.

CAUTION: Do not open door panel greater than 30-degrees until 2-1/2" screws have been installed. (Points B, C, D, E & F in Figure 17).

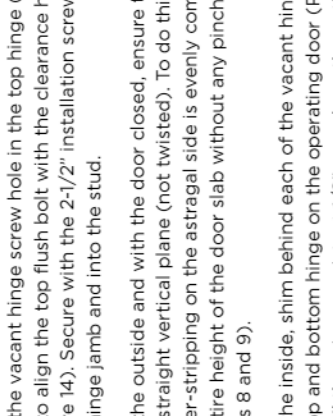
From the outside and with the door closed, ensure that the frame is in a straight vertical plane (not twisted). To do this, check that the weather-stripping on the latch side is evenly compressed along the entire height of the door slab, without any pinching or gaps (Figures 8 and 9).



Lift out the plastic filler strip with a flat head screw driver. Loosen the Phillips screws and adjust strikers to the desired location. Tighten Screws. Reinstall plastic strips. (Plastic strip may need trimming.) Proceed to Step 6.

Step 5: Shim and Fasten

Step 5C: For door with sidelites



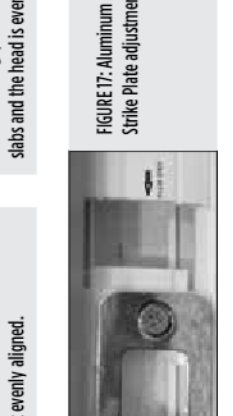
Note: Units intended for installation in hurricane prone regions may require additional points of attachment. See local retailer for installation sheet supplement.

Stand on the inside of the door and center the door in the opening. Shim tightly at the bottom corners of the door unit (Points A in Figure 18).

This will keep the door centered and the frame tight against the sill. Shim the top of the frame, behind the latch-side jamb (Point B in Figure 18). Install shims until there is a consistent 1/8" gap between the top of the operating door slab and the frame header. Shim at the top of the frame, behind the hinge-side jamb (Point C in Figure 18) to hold the door tight in its position relative to the frame. The door should operate freely with nothing but the shims holding it in place.

CAUTION: Do not open door panel greater than 30-degrees until 2-1/2" screws have been installed. (Points B, C, D, E & F in Figure 17).

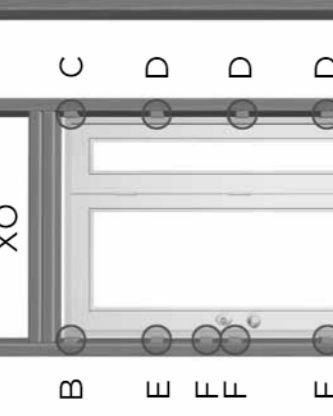
From the outside and with the door closed, ensure that the frame is in a straight vertical plane (not twisted). To do this, check that the weather-stripping on the latch side is evenly compressed along the entire height of the door slab, without any pinching or gaps (Figures 8 and 9).



Once there is an even 1/8" gap across the top of the door slab and the weather-stripping is evenly compressed along the height of the door slab, proceed with the installation. Shim at points D, E and F on the perimeter of the frame (Figure 18), until there is an even 1/8" gap on both sides of the operating door slab. Drive the 2-1/2" installation screws, three on each exterior jamb of a fixed panel, through the exterior (stop) section part of the jamb, through the shims and into the studs. Note: If the door is factory-finished use the Factory-Finished Door System™ information for fastening through exterior jambs.

Step 5: Shim and Fasten

Step 5C: For door with sidelites



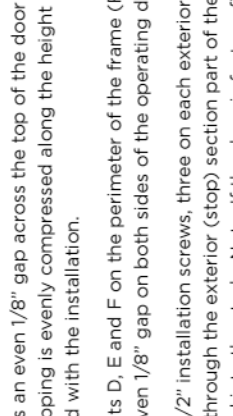
Note: Units intended for installation in hurricane prone regions may require additional points of attachment. See local retailer for installation sheet supplement.

Stand on the inside of the door and center the door in the opening. Shim tightly at the bottom corners of the door unit (Points A in Figure 18).

This will keep the door centered and the frame tight against the sill. Shim the top of the frame, behind the latch-side jamb (Point B in Figure 18). Install shims until there is a consistent 1/8" gap between the top of the operating door slab and the frame header. Shim at the top of the frame, behind the hinge-side jamb (Point C in Figure 18) to hold the door tight in its position relative to the frame. The door should operate freely with nothing but the shims holding it in place.

CAUTION: Do not open door panel greater than 30-degrees until 2-1/2" screws have been installed. (Points B, C, D, E & F in Figure 17).

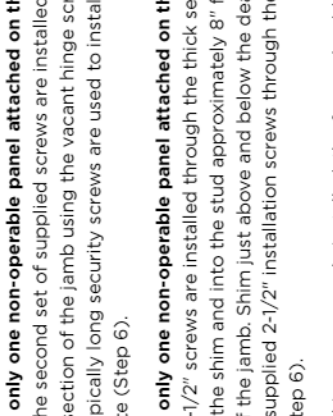
From the outside and with the door closed, ensure that the frame is in a straight vertical plane (not twisted). To do this, check that the weather-stripping on the latch side is evenly compressed along the entire height of the door slab, without any pinching or gaps (Figures 8 and 9).



Once there is an even 1/8" gap across the top of the door slab and the weather-stripping is evenly compressed along the height of the door slab, proceed with the installation. Shim at points D, E and F on the perimeter of the frame (Figure 18), until there is an even 1/8" gap on both sides of the operating door slab. Drive the 2-1/2" installation screws, three on each exterior jamb of a fixed panel, through the exterior (stop) section part of the jamb, through the shims and into the studs. Note: If the door is factory-finished use the Factory-Finished Door System™ information for fastening through exterior jambs.

Step 5: Shim and Fasten

Step 5C: For door with sidelites



Note: Units intended for installation in hurricane prone regions may require additional points of attachment. See local retailer for installation sheet supplement.

Stand on the inside of the door and center the door in the opening. Shim tightly at the bottom corners of the door unit (Points A in Figure 18).

This will keep the door centered and the frame tight against the sill. Shim the top of the frame, behind the latch-side jamb (Point B in Figure 18). Install shims until there is a consistent 1/8" gap between the top of the operating door slab and the frame header. Shim at the top of the frame, behind the hinge-side jamb (Point C in Figure 18) to hold the door tight in its position relative to the frame. The door should operate freely with nothing but the shims holding it in place.

CAUTION: Do not open door panel greater than 30-degrees until 2-1/2" screws have been installed. (Points B, C, D, E & F in Figure 17).

From the outside and with the door closed, ensure that the frame is in a straight vertical plane (not twisted). To do this, check that the weather-stripping on the latch side is evenly compressed along the entire height of the door slab, without any pinching or gaps (Figures 8 and 9).



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Step 6: Install Dead Bolt and Strike Plates



FIGURE 22: Screw fasten the latch plate to the door slab.

Install the dead bolt strike plate at the correct location, per the manufacturer installation detail (Figure 22).

Step 7: Insulate

Score shims with a utility knife and snap the shims along the score. Trim any excess with the utility knife. Insulate around the top and sides of the door unit in the cavity between the jamb and the wall studs with fiberglass blanket insulation (Figure 23). Install the interior and/or exterior trim around the door.



FIGURE 23: Insulate between the jamb and the wall studs all around the door.

Step 8: Caulk Doorway

- Caulk all four exterior corners and all around the door or siding in the following sequence:
- caulk the sill on both latch and hinge sides from the edge of the sill crown along the edge where the sill and jamb or bricmould meet (Figure 24)
 - caulk the front sill edge where the sill and the sub-floor meet (Figure 25)



FIGURES 24 and 25: Caulk the sill crown and the top of the sill.

- caulk the top corners where the header and jamb meet, starting at the weather-stripping and working to the face of the bricmould (Figure 26)
- caulk the perimeter where the exterior trim meets the brick or siding trim (Figure 27)

If the door is center-hinged or has a sidelite, caulk around the mullions where the mullions contact the sill and header.



FIGURES 26 and 27: Caulk the jamb and the exterior trim.

Step 9A: Adjust Sill

Some door units are supplied with adjustable sills, and these may be raised or lowered to form a tight seal with the fixed sweep on the bottom of the door. This adjustment requires a screwdriver with appropriate screw bit. To increase the height of the sill, turn screws evenly along the sill cap. Refer to the "Steps to test threshold seal", (Figure 28).



FIGURE 28: Raise or lower the sill by adjusting the sill screws. Some sills may have covers over the adjusting screws. These covers must be removed prior to making any adjustments.

To properly adjust the threshold seal if it is too tight.

1. Adjust sill cap by turning screws counter-clockwise evenly a 1/2 turn.

2. Repeat seal test. If paper does not slide beneath door with a feeling of tension, repeat Step 1. Re-test seal.

3. Continue testing threshold until it is properly adjusted.

To properly adjust the threshold seal if it is too loose.

(WARNING: Do not increase height by more than 1/4")

1. Adjust sill cap by turning screws clockwise evenly a 1/2 turn.
2. Repeat seal test. If paper does not slide beneath door with a feeling of tension, repeat Step 1. Re-test seal.
3. Continue testing threshold until it is properly adjusted.

Steps to test threshold seal (Figure 28)

1. Close door on a piece of paper placed over the threshold.
2. Pull paper between the sweep of the door and the threshold.
3. If the threshold is properly adjusted, you should feel some tension, but if the paper tears, the door's seal is too tight. If there is no tension on the paper, the door's seal is too loose.

To properly adjust the threshold seal if it is too tight.

1. Adjust sill cap by turning screws counter-clockwise evenly a 1/2 turn.

2. Repeat seal test. If paper does not slide beneath door with a feeling of tension, repeat Step 1. Re-test seal.

3. Continue testing threshold until it is properly adjusted.

To properly adjust the threshold seal if it is too loose.

(WARNING: Do not increase height by more than 1/4")

1. Adjust sill cap by turning screws clockwise evenly a 1/2 turn.
2. Repeat seal test. If paper does not slide beneath door with a feeling of tension, repeat Step 1. Re-test seal.
3. Continue testing threshold until it is properly adjusted.

Step 11: How to Stain Woodgrain Textured Fiberglass Doors

Factory finished door units do not require additional field finishing. See maintenance steps for proper care.

REQUIREMENTS:

Find a well-lit staining location that is dust-free, well ventilated and within the climate conditions recommended by the stain/top-coat manufacturer.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - One pair of rubber gloves
 - Lin-free rags or cheese cloth (recommended)
 - Stir sticks
 - 2" wide foam brush
 - Masking tape
 - Safety razor blades
 - Stain
 - High-quality, opaque (non-transparent), heavily pigmented, oil-based stain (recommended)
 - Gel stains can also be used
 - Semi-transparent stains are not recommended
 - High-quality, exterior grade, UV stabilized polyurethane sealant (satin or low gloss)
 - 2-1/2" wide china bristle brush

TOOLS:

- Hammer
- Pin punch
- Screwdriver with arrangement of screw bits
- Pliers
- Safety glasses

Please read and understand the entire staining procedure before attempting to finish the door. Be sure to follow the stain and top-coat manufacturer's detailed application instructions on the product label.

Step 10: Install the Latch and Dead Bolt



FIGURE 29: The latch and dead bolt are installed per the hardware manufacturer installation detail.

NOTE: Units intended for installation in high velocity windstorm region requires specific grade of latching hardware.

Step 12: Corner Seal (Foam Pad) Installation

Proper installation of the corner seals (Foam Pads) is critical to the performance of your new door system. Please use these photos along with Step #12 to make sure the corner seals are properly installed.

1. At the ends of the sill, apply a bead of caulk where the cap and jamb/mullion meet.
2. Apply the corner pad with the thick side towards the weather-strip and the thin side even with the edge of the jamb/mullion. Be sure the pad is seated in the caulk.

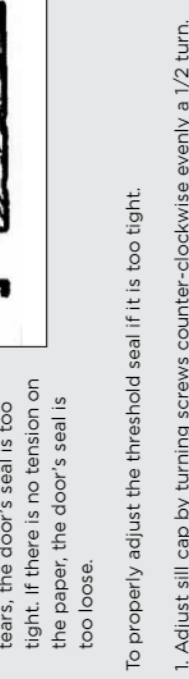


FIGURE 30: Apply the corner pad with the thick side towards the weather-strip and the thin side even with the edge of the jamb/mullion. Be sure the pad is seated in the caulk.

Proper installation of the corner seals (Foam Pads) is critical to the performance of your new door system. Please use these photos along with Step #12 to make sure the corner seals are properly installed.

1. Panels and sticking (moulding profiles)
- 2 Vertical center areas (mullions)
- 3 Horizontal areas (rails)
- 4 Outside vertical areas (stiles)
- 5 Edge of door (includes both sides and top of door)

FINISHING ORDER:

Use a high quality, heavily pigmented, oil-based stain (recommended). Gel stains can also be used. Before starting, and occasionally throughout the project, stir the stain until the texture is creamy. We recommend that before starting, you try staining a small inconspicuous area of the door to achieve the desired color. Mineral spirits. Mask (tape) off all surfaces that will not be stained.

One coat of stain is required with the recommended (per manufacturer's instructions) dry time needed between sides. The stain should be applied in the following order working on one small section of the door at a time.

REQUIREMENTS:

Find a well-lit staining location that is dust-free, well ventilated and within the climate conditions recommended by the coating manufacturer. Recommended temperature should be between 50 - 90° F degrees Fahrenheit.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - Soapy water (mild detergent in warm water)
 - One pair of rubber gloves
 - Stir sticks
 - Masking tape
 - Safety razor blades
 - 220-grit sandpaper
 - Paint
 - High-quality, oil-base or 100% acrylic water-based latex paint of desired color
 - Lacquer paints are not recommended
 - 2-1/2" wide china bristle brush for type of paint (a natural bristle brush should be used with water-based paint and a synthetic bristle brush should be used with latex paint).

TOOLS:

- Hammer
- Pin punch
- Phillips screwdriver
- Pliers
- Safety glasses
- Airless sprayer (optional)

Please read and understand the entire painting procedures before attempting to finish the door. Be sure to follow the paint manufacturer's detailed application instructions on the product label.

A. How to start

Doors can be painted either hanging in the opening or removed from the frame (recommended). Should you remove the door, take care to protect it from damage. Sidelites will need to be finished vertically. To remove the door from the frame, use a pin punch and hammer. Strike the hinge pin from the bottom until it pops up (for outswing & self closing units - hinge leaf must be removed from the door). Drive the hinge pin as far as possible with the punch. Using a pair of pliers, grasp the hinge pin and, while twisting, pull the pin out. Remove all door hardware.

B. Preparing the door surface

IMPORTANT: For adequate paint adhesion the door surface must be free of dust, debris and other surface contaminants.

Step 11: How to Paint Exterior Doors

Factory finished door units do not require any additional field finishing.

Find a well-lit finishing location that is dust-free, well ventilated and within the climate conditions recommended by the coating manufacturer. Recommended temperature should be between 50 - 90° F degrees Fahrenheit.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - Soapy water (mild detergent in warm water)
 - One pair of rubber gloves
 - Stir sticks
 - Masking tape
 - Safety razor blades
 - 220-grit sandpaper
 - Paint
 - High-quality, oil-base or 100% acrylic water-based latex paint of desired color
 - Lacquer paints are not recommended
 - 2-1/2" wide china bristle brush for type of paint (a natural bristle brush should be used with water-based paint and a synthetic bristle brush should be used with latex paint).

TOOLS:

- Hammer
- Pin punch
- Phillips screwdriver
- Pliers
- Safety glasses
- Airless sprayer (optional)

Please read and understand the entire painting procedures before attempting to finish the door. Be sure to follow the paint manufacturer's detailed application instructions on the product label.

A. How to start

Doors can be painted either hanging in the opening or removed from the frame (recommended). Should you remove the door, take care to protect it from damage. Sidelites will need to be finished vertically. To remove the door from the frame, use a pin punch and hammer. Strike the hinge pin from the bottom until it pops up (for outswing & self closing units - hinge leaf must be removed from the door). Drive the hinge pin as far as possible with the punch. Using a pair of pliers, grasp the hinge pin and, while twisting, pull the pin out. Remove all door hardware.

B. Preparing the door surface

IMPORTANT: For adequate paint adhesion the door surface must be free of dust, debris and other surface contaminants.

Step 11: How to Stain Woodgrain Textured Fiberglass Doors

Factory finished door units do not require any additional field finishing.

Find a well-lit finishing location that is dust-free, well ventilated and within the climate conditions recommended by the coating manufacturer. Recommended temperature should be between 50 - 90° F degrees Fahrenheit.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - Soapy water (mild detergent in warm water)
 - One pair of rubber gloves
 - Stir sticks
 - Masking tape
 - Safety razor blades
 - 220-grit sandpaper
 - Paint
 - High-quality, oil-base or 100% acrylic water-based latex paint of desired color
 - Lacquer paints are not recommended
 - 2-1/2" wide china bristle brush for type of paint (a natural bristle brush should be used with water-based paint and a synthetic bristle brush should be used with latex paint).

TOOLS:

- Hammer
- Pin punch
- Phillips screwdriver
- Pliers
- Safety glasses
- Airless sprayer (optional)

Please read and understand the entire painting procedures before attempting to finish the door. Be sure to follow the paint manufacturer's detailed application instructions on the product label.

A. How to start

Doors can be painted either hanging in the opening or removed from the frame (recommended). Should you remove the door, take care to protect it from damage. Sidelites will need to be finished vertically. To remove the door from the frame, use a pin punch and hammer. Strike the hinge pin from the bottom until it pops up (for outswing & self closing units - hinge leaf must be removed from the door). Drive the hinge pin as far as possible with the punch. Using a pair of pliers, grasp the hinge pin and, while twisting, pull the pin out. Remove all door hardware.

B. Preparing the door surface

IMPORTANT: For adequate paint adhesion the door surface must be free of dust, debris and other surface contaminants.

Step 11: How to Stain Woodgrain Textured Fiberglass Doors

Factory finished door units do not require any additional field finishing.

Find a well-lit finishing location that is dust-free, well ventilated and within the climate conditions recommended by the coating manufacturer. Recommended temperature should be between 50 - 90° F degrees Fahrenheit.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - Soapy water (mild detergent in warm water)
 - One pair of rubber gloves
 - Stir sticks
 - Masking tape
 - Safety razor blades
 - 220-grit sandpaper
 - Paint
 - High-quality, oil-base or 100% acrylic water-based latex paint of desired color
 - Lacquer paints are not recommended
 - 2-1/2" wide china bristle brush for type of paint (a natural bristle brush should be used with water-based paint and a synthetic bristle brush should be used with latex paint).

TOOLS:

- Hammer
- Pin punch
- Phillips screwdriver
- Pliers
- Safety glasses
- Airless sprayer (optional)

Please read and understand the entire painting procedures before attempting to finish the door. Be sure to follow the paint manufacturer's detailed application instructions on the product label.

A. How to start

Doors can be painted either hanging in the opening or removed from the frame (recommended). Should you remove the door, take care to protect it from damage. Sidelites will need to be finished vertically. To remove the door from the frame, use a pin punch and hammer. Strike the hinge pin from the bottom until it pops up (for outswing & self closing units - hinge leaf must be removed from the door). Drive the hinge pin as far as possible with the punch. Using a pair of pliers, grasp the hinge pin and, while twisting, pull the pin out. Remove all door hardware.

B. Preparing the door surface

IMPORTANT: For adequate paint adhesion the door surface must be free of dust, debris and other surface contaminants.

Step 11: How to Stain Woodgrain Textured Fiberglass Doors

Factory finished door units do not require any additional field finishing.

Find a well-lit finishing location that is dust-free, well ventilated and within the climate conditions recommended by the coating manufacturer. Recommended temperature should be between 50 - 90° F degrees Fahrenheit.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - Soapy water (mild detergent in warm water)
 - One pair of rubber gloves
 - Stir sticks
 - Masking tape
 - Safety razor blades
 - 220-grit sandpaper
 - Paint
 - High-quality, oil-base or 100% acrylic water-based latex paint of desired color
 - Lacquer paints are not recommended
 - 2-1/2" wide china bristle brush for type of paint (a natural bristle brush should be used with water-based paint and a synthetic bristle brush should be used with latex paint).

TOOLS:

- Hammer
- Pin punch
- Phillips screwdriver
- Pliers
- Safety glasses
- Airless sprayer (optional)

Please read and understand the entire painting procedures before attempting to finish the door. Be sure to follow the paint manufacturer's detailed application instructions on the product label.

A. How to start

Doors can be painted either hanging in the opening or removed from the frame (recommended). Should you remove the door, take care to protect it from damage. Sidelites will need to be finished vertically. To remove the door from the frame, use a pin punch and hammer. Strike the hinge pin from the bottom until it pops up (for outswing & self closing units - hinge leaf must be removed from the door). Drive the hinge pin as far as possible with the punch. Using a pair of pliers, grasp the hinge pin and, while twisting, pull the pin out. Remove all door hardware.

B. Preparing the door surface

IMPORTANT: For adequate paint adhesion the door surface must be free of dust, debris and other surface contaminants.

Step 11: How to Stain Woodgrain Textured Fiberglass Doors

Factory finished door units do not require additional field finishing. See maintenance steps for proper care.

Find a well-lit staining location that is dust-free, well ventilated and within the climate conditions recommended by the stain/top-coat manufacturer.

You will need the following:

- COATINGS AND ACCESSORIES:**
- Mineral spirits or acetone
 - One pair of rubber gloves
 - Lin-free rags or cheese cloth (recommended)
 - Stir sticks
 - 2" wide foam brush
 - Masking tape
 - Safety razor blades
 - Stain
 - High-quality, opaque (non-transparent), heavily pigmented, oil-based stain (recommended)
 - Gel stains can also be used
 - Semi-transparent stains are not recommended
 - High-quality, exterior grade, UV stabilized polyurethane sealant (satin or low gloss)
 - 2-1/2" wide china bristle brush

TOOLS:

- Hammer
- Pin punch
- Screwdriver with arrangement of screw bits
- Pliers
- Safety glasses

Please read and understand the entire staining procedure before attempting to finish the door. Be sure to follow the stain and top-coat manufacturer's detailed application instructions on the product label.

REQUIREMENTS:

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