EXTERIOR SIDELITE DOOR SYSTEM
INSTALLATION INSTRUCTIONS

REQUIRED TOOLS

Safety Glasses • Gloves • 48”-72” Level • Hammer • Tape Measure • 24” Square • Screw Gun
Exterior Caulk (Paintable Silicone Recommended) • 2-½” Wood Screws Qty: 6 • Wood Shims (1pkg.) • Fiberglass Insulation

WARNING
Door Units Are Heavy! Use an adequate number of people to set the unit and prevent injuries or damage to the door.

Note: These instructions are recommended installation methods and not a substitute for local building codes. Please consult your local building codes prior to any door installation.

1) Preparation of Rough Opening

a) Clean the floor area around the door opening. If necessary, scrape off mortar or plaster spills (fig.1).
Double check the rough opening dimensions. The rough opening should be roughly ½” taller and ¾” wider than the outside frame dimensions of the door unit.

b) Make sure the floor is level (fig.2). If the sub-floor is not level it will adversely affect the rest of the installation.

2) Door Unit Prep

a) Remove the door handles from the door unit (fig.5).
The door unit cannot be installed until they are removed.

b) Your door is shipped with an installation clip at the top of the door and a plug in the lockset location.
-Remove the 3 screws at the top of the clip but leave the clip attached to the door. (fig.6a).
-Leave the bore plug in place for now. (fig.6b).

3) Setting the Door Unit

a) Apply three 1/4” beads of silicone caulking to the sub-floor of the rough opening (fig.7).

b) Apply a bead of caulking around the perimeter of the door sill (fig.8).

c) Apply a bead of caulk around the backside perimeter of the brickmould (fig.9).

d) Using two people, set the sill into the rough opening. Center the frame into the opening and tip the unit into place (fig.10).

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FOR DOORS WITH ONE SIDELITE

4a) Shimming the Door Unit

Open the door carefully and check for plumb on the side of the door that does not have a sidelite (fig.11a).
If the sidelite is on the lock side of the door, place shims behind the top hinge (fig.12a) and tap the unit into place by removing one screw and installing a 2-1/2" wood screw through the top hinge and into the rough opening. Add a second 2-1/2" screw to prevent the door from sagging (fig.13a). If the sidelite is on the hinge side, place shims behind the jamb directly across from the top hinge (fig.14a) and tap the unit into place by folding back the weatherstrip and installing one 2-1/2" wood screw through the jamb and into the rough opening (fig.15a).

5a) Adjusting the Door Margins

a) Moving the door frame as little as possible, carefully close the door unit. Begin by shimming the door unit. Place shims below each of the three hinge locations and each of the three corresponding strike locations. (fig.16a)
NOTE: We recommend the use of screws when installing your door system. Screws allow you the opportunity for easy removal if adjustments need to be made to the installation.

b) Shim the door unit until the margin between the head and the strike jamb is even and the margin between the door and the strike jamb is even. The margin should equal about 1/8" (fig.17a).
NOTE: An even margin across the top of the header and down the strike side of the door will ensure that the door unit is square in the opening. Uneven margins will result in the door unit being out of square.
NOTE: Leaving the Installation Clip in place (mentioned in Step 2) will help with this process.

6a) Securing the Door Unit

a) Re-check for plumb on the side of the door unit without the sidelite (fig.11a).
Open the door carefully and finish screwing the jamb into place by either installing 2-1/2" wood screws through the remaining shim locations on the strike hinge side depending on the placement of the sidelite.

b) Close the door unit and re-check for plumb on the sidelite side. Using a 1/8" drill bit, pre-drill two 1/8" holes at a 45º angle through the mulled jambs and into the subfloor (fig.18a). Repeat this process for the head of the door where the door and sidelite are mulled together and at each sidelite jamb locations. Using a countersink bit, countersink the holes drilled in order to allow the screw heads to sit flush with the jambs. (fig.19a).

C) Install one 2-1/2" wood screw into each of the predrilled locations. Be careful not to over tighten the screws so that you do not crack the jams (fig.20a).
D) Once the head and sill of the door are held into place, use the 1/8" drill bit to pre-drill a hole through the jamb and into each of the shims locations at a 45º angle. Once the holes have been drilled, install one 2-1/2" wood screw at each of the shim locations (fig.21a).
NOTE: We recommend the use of screws when installing your door system. Screws allow you the opportunity for easy removal if adjustments need to be made to the installation.
NOTE: Because of the angle of the screws, be careful not to draw the door unit out of plumb when tightening the screw heads. Do not overtighten.

FOR DOORS WITH TWO SIDELITES

4b) Shimming the Door Unit

a) Leave the door closed and check both sides of the door for plumb (fig.11b).

b) Place shims across from each of the three hinge locations on both the strike and hinge side of the door unit (fig.12b).

5b) Adjusting the Door Margins

Shim the door unit until the margin between the door and the head jamb is even and the margin between the door and the strike jamb is even. The margin should equal about 1/8" (fig.13b & 14b).
NOTE: Leaving the Installation Clip in place (mentioned in Step 2) will help with this process.

6b) Securing the Door Unit

a) Re-check the unit for plumb (fig.15b) and then using a 1/8" drill bit, pre-drill two 1/8" holes at a 45º angle through the mulled jambs and into the subfloor (fig.16b). Repeat this process for the head of the door where the door and sidelite are mulled together and at each sidelite jamb locations.

C) Once the head and sill of the door are held into place, use the 1/8" drill bit to pre-drill a hole through the jamb and into each of the shim locations at a 45º angle. Once the holes have been drilled, install one 2-1/2" wood screw at each of the shim locations (fig.17b).
NOTE: We recommend the use of screws when installing your door system. Screws allow you the opportunity for easy removal if adjustments need to be made to the installation.
NOTE: Because of the angle of the screws, be careful not to draw the door unit out of plumb when tightening the screw heads. Do not over tighten.

b) Install one 2-1/2" wood screw into each of the pre-drilled locations. Be careful not to overtighten the screws so that you do not crack the jams (fig.18b).
7) Adjusting the Frame

a) Remove the Bore Clip. Bend the handle on the Bore Clip and pull it out through the bore hole. (fig. 22).

b) Remove the Installation Clip by opening the door and removing the two screws that extend through the clip and into the door head (fig. 23).

c) Close the door unit and re-check the margin around the door unit. It should be even horizontally across the top of the head jamb and vertically from the head to the sill. Make adjustments to the shimming as needed. (fig. 24).

d) If your door system has an adjustable sill: Using a #2 phillips screw driver, adjust the set screws on the top of the sill crown to allow your door to operate properly (fig. 25).

A good test for the proper height of the sill crown is to
1.) Close the door on a piece of paper.
2.) Pull the paper from between the sweep and the threshold (fig. 26).

If the paper tears, the threshold is adjusted too high and it will prematurely wear out the sweep. If there is no tension on the paper, then there will be potential for water leakage.

8) Installing the Lockset

a) All Mastercraft doors are set up with a 2-1/8” bore hole set at either a 2-3/8” or a 2-¾” backset (depending on door size). All crossbores are set for a 1” drivepoint latch. This is done to allow installers to utilize drive point latch systems, radius plate systems, or square plate systems (fig. 27).

b) To install the backset as a drivepoint system, simply follow the lock manufacturer’s instructions for converting to a drivepoint. Hammer the drivepoint into place making sure the angled portion of the backset faces the jamb (fig. 28).

c) Using the manufacturer’s instructions, install the lockset (fig. 29).

“For added security, use 2 ½” screws when installing all strike plates

d) Install the strike plate on the jamb (fig. 30). Our jambs are mortised for a 3/4” radius strike plate. If the lock manufacturer has supplied a square plate, use a chisel to remove the excess wood material from around the corners of the plate.

e) For doors that are bored for a deadbolt, install the deadbolt strike plate. If the door does not have a deadbolt, install a plastic deadbolt cover plate included with the door (fig. 31).

9) Insulating the Door Unit

Before applying casing to the interior of your door unit you will need to insulate around the frame opening. We recommend using “Fiberglass Blanket Insulation”. Do not use expanding foam, it will affect the margin around the door unit (fig. 32).
**10) Final Installation**

It is very important that you finish your door system properly. To ensure maximum efficiency, please caulk at the following locations:

- **a)** Where the brickmould contacts the exterior wall. (fig. 33).
- **b)** Where the brickmould contacts the frame. (fig. 34).
- **c)** Where the frame contacts the sill. From the nose of the sill on the exterior of the house, over the crown, and to the edge of the sill heel on the interior of the house. (fig. 35).
- **d)** Along the entire length of the nose of the sill, where it contacts the sill plate. (fig. 36).

- **e)** Make sure the corner seals are in place. If they have been removed during finishing, please make sure they are replaced (fig. 37).
- **f)** Remove all excess shimming material by first scoring the shims and then breaking them off with a hammer (fig. 38).
- **g)** Apply casing to the unit as desired (fig. 39).

**NOTE**: Mull strips for the interior of the sidelite doors are not provided. (fig. 40) Mull strips need to be purchased at the same time as the casing to ensure that the correct species of wood is applied.

**11) Disposal of Waste Materials**

For proper handling and disposal of construction waste materials please consult your local building codes. Additional disposal and recycling recommendations can be found on the EPA website at www.epa.com.

**12) Finishing Recommendations**

Remove all dust and debris from the surface of the door. Lightly sand the door surface with a fine sand paper. Wash the door with a mild detergent and rinse very well. Allow the door to dry completely. Apply a finishing coat of a high quality latex paint. Carefully follow all paint manufacturers’ preparation and finishing instructions. Do not paint the weatherstrip. Do not close the door unit until the paint is completely dry. Please see door window for finishing instructions for the window frame.