

HARDWARE

Care should be taken in fitting concealed hardware to ensure the door is not unduly weakened at that point.

Doors with 1-LD-1 particleboard core (Accent Series doors) must use throughbolts for surface-applied hardware. Screws can not be used.

HINGES

Mortise hinges should be attached with No. 12 x 1-1/4" steel threaded-to-the-head wood screws (see ANSI Standard - B 18.6.4), into 9/64" pilot holes. Surface hinges must be secured with steel throughbolts.

LOCKS

Install locks per manufacturer's instructions.

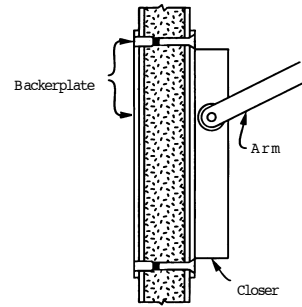
CLOSERS

A surface-type closer does not require the removal of wood except for fasteners. Some concealed closers may void warranty.

- Surface-mounted hardware with screws can be used on Mineral Core doors with no-bolt blocking.

- Backer plates are recommended on decorative laminate face and Mineral Core doors when throughbolts are used. Attach backer plates with No. 8 x 3/4" threaded-to-the-head wood screws. A pre-drilled 3/32" pilot hole is necessary.
- When installing a closer, provide a properly located stop to limit the door opening swing and prevent stile failure.

Top View with Throughbolts



METAL EDGE & ASTRAGAL

Concealed intumescent stile fire-rated doors do not require metal edges or a metal edge and astragal.

Formed 18-gauge steel metal edges or a metal edge and astragal set are required for 90-minute fire-rated doors when installed as pairs with three-point latching. (Three point latching defined as single point latching on active leaf and a combination of vertical rod, top rod, manual or automatic flush bolts or thermal pin to give 2 point latching

on the active leaf.) ITS-WH and UL 20-minute doors do not require metal edges, if fire-retardant or positive pressure approved stiles are specified.

KICKPLATES

Kickplates may be attached to the face of the door. The plate used must be an approved material (metal, stainless steel, acrylic, vinyl, bronze, aluminum, or high pressure laminate). The height from the bottom of the door is not to exceed:

- 48" for 20, 45, 60-minute rated doors (applied with screws or adhesive).
- 48" for 90-minute rated doors (applied with 6 x 32 nylon screws or adhesive only).
- 16" for 90-minute rated doors (applied with screws or adhesive).

MAINTENANCE

Make sure doors continue to swing freely (do not bind in the frame). Also, to ensure proper functioning, periodically inspect and adjust door hardware as needed.

DOOR MARKINGS

Marshfield DoorSystems doors are marked for easy identification. Door opening numbers are marked in the bar code. End-matched numbers are marked on the top end rail of the door and the bottom end of the transom.

Care & Handling



Marshfield
DoorSystems



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Inspecting • Storing • Finishing • Fitting • Installation • Maintenance

To Maintain Marshfield DoorSystems Warranty, Follow These Care & Handling Instructions.

HANDLING DOORS

It is important to handle doors carefully. Handle doors like you would furniture.

Handle Marshfield DoorSystems doors with clean canvas gloves. Bare hands leave finger marks and soil stains.

When moving doors, carry them; do not drag. Never drag one door across another. Carts and other equipment used to handle doors must be padded.

INSPECTING DOORS

All doors must be inspected thoroughly by the installer before installation. Marshfield DoorSystems does not warrant doors installed with a defect that was obvious prior to installation.

All doors should be inspected for freight damage upon receipt and before forwarding. Any observed damage must be noted on the delivery receipt and Marshfield DoorSystems should be notified immediately. Failure to follow this procedure may lead to claim denial by the shipper and/or carrier.

DOOR TOLERANCES

For information regarding maximum allowable tolerances on Marshfield doors, please refer to the Marshfield DoorSystems Warranty.

STORING DOORS

Marshfield's shipping package is not intended for storage.

Stack doors flat on carefully leveled supports. We recommend a support of three 2 x 4's placed the full width of the doors, one across the center and one 12" from each end, covered with a sheet of plywood or heavy cardboard to protect the face of the bottom door. The top door should be covered in a similar manner.

Keep doors clean and avoid discoloration by applying an opaque covering which does not permit light to penetrate. Covering must allow for air circulation. (Certain species including Cherry, Walnut and Mahogany are extremely sensitive to light and require extra protection.)

Do not store doors in damp areas or in freshly plastered buildings. Storage space should be dry and well ventilated.

Doors should not be subjected to low or high humidity. Humidity under 25% or over 55% may cause permanent damage and will void the Marshfield DoorSystems Warranty.

Doors should be conditioned to the average humidity of the locality before hanging. The HVAC system should be operating and balanced prior to arrival of doors.

FIELD FINISHING

Note: The Marshfield DoorSystems Warranty does not cover the appearance of field finished doors.

Field finished doors, including primed doors, must be sanded prior to finishing. Before finishing, place the door in a horizontal position. To remove raised grain or handling marks, block or power sand all surfaces with the grain. It is the responsibility of the field finisher to determine the proper grit sandpaper required and the duration of face preparation necessary to make the appearance of the doors acceptable to the owner. Do not continue finishing if problems arise.

The appearance of field finished doors is the responsibility of the field finisher.

If applying a dark stain to a light wood, thorough initial sanding is even more important to prevent blotchiness and to reduce the appearance of a "barber pole" effect. Do not use steel wool on oak doors.

Stains must be applied with the door in a horizontal position. This permits easier handling of the materials, and prevents the solvents from evaporating too rapidly. Rapid solvent evaporation can cause fillers to streak. It can also cause the wiping stains to dry before cleanup can be completed. If the door is in a horizontal position, premature drying is slowed down, since the heavier-than-air solvent vapors tend to remain on the surface. To stain/fill larger, flat areas quickly and with less danger of streaks, working in teams of two is recommended.

Good quality finishing materials used according to the manufacturer's directions provided, will produce the best, most durable results.

Door orders generally specify only species, grade and cut of veneer. Unless specified, no attempt is made to manufacture doors with flitches of similar color and grain. Finishing will accentuate any natural characteristics that are apparent prior to finishing.

PLASTIC LAMINATE DOOR PROTECTANT

Many of our plastic laminate doors are supplied with a poly-peel coat on the door faces. The poly-peel coat protects the faces and should be peeled off after the door is installed.

FITTING DOORS

Jambs must be plumb and square and doors should be hung so they will operate freely and without tension. To allow for swelling of the door during extremely damp weather, leave approximately 1/8" clearance at each side and at the top.

FITTING NON-RATED DOORS

Staved Core, Particleboard Core or Structural Composite Lumber Doors

While it is best not to cut doors to fit openings smaller than those for which they are manufactured, the following guidelines should be followed when trimming is necessary.

We recommend beveling both edges at the rate of 1/8" in 2" so proper clearance can be maintained.

Trim equally from both sides. Do not trim more than 3/8" off each edge.

Doors with veneer or decorative laminate edgeband will require re-banding after trimming.

If the total height must be reduced more than 3/4", trim equally from the top and bottom, but never more than 3/4" from either end.

FITTING & INSTALLING FIRE-RATED DOORS

All fire-rated doors must be prefit and machined by Marshfield DoorSystems or other licensed machiners. While it is best not to cut doors to fit openings smaller than those for which they are manufactured, licensed machiners may bevel the stiles at the rate of 1/8" in 2" so proper clearance can be maintained.

The standard location for Intertek Testing Service-Warnock Hersey (ITS-WH) and Underwriters Laboratories (UL) fire-rated door labels is on the hinge stile of the door. It identifies the door as fire-rated. Do not remove, cover up, or paint over the metal fire label.

Do not trim the lock stile of doors with concealed and exposed intumescents. Doors may be undercut a maximum of 3/4" from the bottom, as long as clearances are maintained per NFPA-80.

EXTERIOR USE

Marshfield DoorSystems doors are not recommended and are not warranted for exterior use.

REPAIR OF LOOSE OR STRIPED SCREWS IN NON-COMBUSTIBLE STILE MATERIALS

The stile edge of positive pressure door constructions with non-combustible materials does not support screw reinsertion. If a door must be removed from an opening after the hinges are attached, avoid removing the hinge screws from the door edge. Instead, remove the hinge pins or remove the screws from the frame.

In situations where the hinge screws must be removed from the door stile after the hinges have been attached, it is recommended that wire or epoxy resin be inserted into the screw hole prior to reinserting the screws. For more details on this procedure, contact Marshfield DoorSystems at 800-869-3667.

LITE & LOUVER OPENINGS

Lite and louver openings in fire-rated doors must be machined at the factory or by an approved licensed machiner.

For fire-rated labeling purposes, openings must be 5-1/2" to any edge and adjacent openings. For warranty purposes on particleboard core and staved core doors, openings must be 5" to any edge and adjacent openings. To maintain warranty, 1-1/4" is the minimum distance between the lock cutout and an opening on a Marshfield Structural Composite Lumber Door.

INSTALLATION INSTRUCTIONS FOR MARSHFIELD DOORSYSTEMS NON-RATED WOOD LITE KITS

To properly install the glass in a wood lite kit, the glazier must first remove the packaged prefit pieces of the wood moulding kit from the plastic bag. It is the installer's responsibility to determine the type and amount of caulking materials required. The amount of caulking material varies depending upon how much is needed to make the moulding fit flush on the door face. The loose moulding is nailed into place using 2" nails (supplied by the installer), placed no more than 2" from the corners and

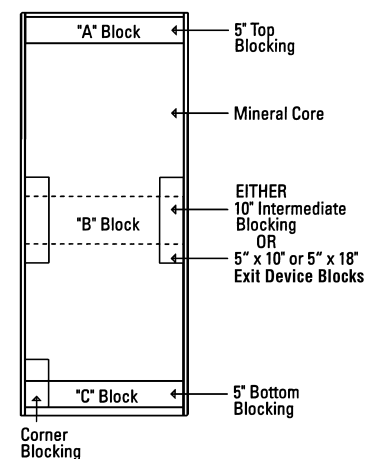
no more than 6" apart. (Secure the narrow pieces of moulding first.) Set nails and fill holes with matching putty.

WOOD WRAPPED VISION FRAME SYSTEM

The Marshfield DoorSystems Wood Wrapped Vision Frame System combines the All Metal Stamping Model #110 metal vision frame and Marshfield's wood wrapped casing. The Wood Wrapped Vision Frame System bears the ITS-WH/UL 20, 45, 60, and 90-minute fire-rating label and classification.

NO-BOLT BLOCKING FOR MINERAL CORE DOORS

Blocking is not standard in any mineral core door; blocking is available as an added option. In Marshfield's mineral core doors, blocking is gray in color, which distinguishes it from the white mineral core.



Installation Note: Surface-mounted hardware should be anchored on the inner blocked door using a No. 12 screw which penetrates the door by a minimum of 1-1/4". Pilot holes of 9/64" must be drilled the depth of the screw.

Refer to markings on the top rail for blocking options selected.

DOOR FRAMES

Consult the UL Building Materials Directory for listed frames.

Install door frames per manufacturer's instructions. Do not install doors unless the jamb is plumb and square.