

STORAGE, HANDLING, FINISHING, INSTALLATION AND MAINTENANCE INSTRUCTIONS

STORAGE AND HANDLING

1. Store doors in a flat, level, horizontal position supported by at least 3 full width 2 X 4's.
2. Handle doors with clean hands or while wearing clean gloves.
3. Do not drag doors across one another, lift and carry them.
4. Store doors in clean surroundings protected from dirt, abuse, excess moisture or dryness, extremes of temperature, or direct sunlight.
5. If doors are covered to protect them be sure to allow circulation.
6. Do not deliver doors to the jobsite until construction materials i.e., plaster, concrete, paint, etc. are dry and temperature and humidity are controlled and normal.
7. Doors should be conditioned to the average prevailing humidity of the locality and jobsite prior to hanging.
8. Certain species of wood, particularly oak, contain chemicals which react unfavorably with ferrous metals causing dark blue/black stains. Avoid contact with steel, steel products, filings, etc.

PREPARATION FOR FINISHING

1. Prior to finishing insure that the building atmosphere is dried to a normal, interior relative humidity of 25% to 55%, 50-90 degrees F per WDMA I.S.1A
2. Sanding and Finishing must be done with the door in a horizontal position.
3. Prior to finishing remove all handling marks, raised grain, and other undesirable blemishes by completely hand block sanding all surfaces with a 100 to 150 fine grit abrasive. Do not use steel wool. Do not spot sand. Failure to properly prepare the surface will result in blotchy appearance.
4. When possible, the species finish combination should be tested prior to finishing the doors. Notify the finish supplier and door supplier immediately if any undesirable reaction is noticed. Do not continue with finishing until the problem is resolved.
5. In order not to induce warpage, avoid dark stains or dark colored paints on door surfaces exposed to direct sunlight.
6. To prevent blemish magnification, avoid extremely dark stains on light colored wood species.
7. Water based sealers or prime coats should not be used. Water based top coats should be used only over surfaces which have been completely sealed with a non-water based sealer or primer.
8. A first coat of thinned sanding sealer, followed by light block sanding, will minimize subsequent handling marks, and promote uniformity of subsequent stain coats.
9. High gloss finishes are not recommended.
10. Be sure the door surface is satisfactory before applying sealers, stains or topcoats.

INSTALLATION

1. The utility or structural strength of the doors must not be impaired in fitting the door to the opening, preparation and application of hardware, preparation and application of lights, louvers, plant-ons or other detailing.
2. On all exterior and interior solid core doors, use a minimum of one hinge for each 30 inches of door height. When using 3 or more hinges they are to be equally spaced. Interior hollow core doors weighing less than 50 pounds and not over 6' 8" in height may be hung on two hinges.
3. Pilot holes must be drilled for the screws attaching hinges, lock hardware, and other devices to the faces of door stiles. Pilot holes should be 70% of the root diameter for wood screws used in application to softwood stiles and 90% of the root diameter for wood screws used in application to hardwood stiles.
4. All hardware locations, preparations, and methods of attachment must be appropriate for the specific door construction.
5. Clearances between door edges and door frame shall be a minimum of 1/16 inch on the hinge edge, 1/8 inch on the latch edge and top rail.
6. Doors shall be completely finished for seal, stain, topcoat and hardware preparation prior to installation.
7. Properly protect top and bottom edges of exterior doors and the bottom of light or louver cutouts with proper finishes and metal flashing to prevent moisture from leaking into the core. Exterior lip mouldings must be used in light/louver openings.
8. Exterior doors, in geographical areas having climatic conditions that cause substantial temperature and/or humidity differences on opposite sides of the door, should be installed in a storm door unit to help prevent warpage.
9. Fire doors bearing Graham Manufacturing Corporation certification labels have been prepared for installation per the conformance authorities granted by Warnock Hersey International and under label service. The door is to be installed so that the certification label will be on the hinge stile at approximately eye level. Removal or tampering with this label will void the rating of the door. Fire Doors must be installed per label instructions.
10. Job site modification of certified, labeled fire doors is restricted to the following:
 - a) Function holes for mortise locks, holes for labeled viewers, a maximum 3/4" undercutting of book height doors, protection plates and preparations for surface and applied hardware not to exceed 1" in diameter.
 - b) Unless otherwise identified, certified labeled fire doors installed in pairs must have metal meeting edges or metal meeting edges with an astragal.
 - c) Pilot holes must be drilled for all screw applications. Drill 5/32" diameter pilot holes for No. 12 screws.

MAINTENANCE

1. Insure that doors have been finished and installed properly.
2. Insure the doors continue to swing freely, do not bind in the frame and that all hardware is well maintained and remains functional.
3. Protect the doors and hardware from abuse by the users.
4. Most finishes on both interior and exterior doors will deteriorate with time and use. In order for these doors to continue receiving the protection required, periodic inspection and repair or refinishing is necessary. Frequency of inspection and repair or refinish should be at least once a year for exterior doors and at least once every two years for interior doors.
5. Periodic care and cleaning of the door finish is recommended. Care should be taken not to use chemical cleaners or polishes which will react unfavorably with the finish materials.
6. Care should be taken to insure that any repair or replacement of the finish is done with materials which are compatible with the original materials used. Follow the instructions under "Preparation for Finishing."

MATERIAL SAFETY DATA INFORMATION

In accordance with the 1989 O.S.H.A. "Z" List of Hazardous materials and the reporting of those materials, Graham of Mason City, Iowa issues the following statement:

NO materials used in the production or manufacture of any Graham products are hazardous to the handler or user of those products when they are finished and installed according to accepted industry standards.

Wood and wood products are exempt and **are not** defined as hazardous by the O.S.H.A. standard.

Customer:

Job Name:

GMC#:

PO#:

INV#:

DATE:

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wood doors
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