

# Installation — Bullet Resistant Wood Doors

A&L Shielding's bullet resistant door systems are designed to meet UL 752 standards.

## Bullet Resistant Wood Doors - installation and care (page 1)

### **RECEIPT, STORAGE AND HANDLING:**

1. Check doors thoroughly on receipt for shipping damage. Do not store doors without checking them first. Quickly file any claims for freight damage with the carrier.
2. Store the doors flat on a level surface in a dry, well-ventilated building. Doors should be kept at least four inches off the floor and should have protective coverings under the bottom door and over the top door. Coverings should allow for air circulation under and around the stack. Avoid exposure to direct sunlight and excessive heat or humidity. The recommended humidity and temperature ranges are 30 to 50 percent relative humidity and 50 to 90 degrees Fahrenheit.
3. Do not install doors in buildings that have wet plaster or cement. HVAC systems should be operating and balanced. Allow the doors to become acclimated to finished building heat and humidity before fitting and hanging. Do not move from a storage warehouse to the final location and hang immediately without conditioning.
4. Doors should always be handled with clean hands or clean gloves (preferred).
5. Doors should be lifted and carried, NOT slid across one another. Do not allow foot traffic on doors.
6. The weight of these doors makes handling more difficult than handling of conventional doors. Do not "walk" the doors across the floor. Use a bottom channel or plate to protect the door bottom whenever using a lever to raise and lower the door.

### **INSTALLATION IN FRAME:**

1. The bullet resistant frame should first be installed plumb, square and level. Check the frame opening dimensions to verify that no shipping or installation damage to the frame has occurred. A&L Shielding recommends that the frame and door be purchased from A&L Shielding at the same time to ensure continuity of bullet resistant shielding for the opening.
2. Due to the weight of bullet resistant doors, several precautions need to be taken:
  - ◆ Adequately secure the frame in the wall to properly support the door weight and size;
  - ◆ Use a hinge system fully rated for the door

weight, including all hardware/bullet resistant requirements (HD butt hinges, .180" or greater, are recommended for all applications).

- ◆ Use a minimum of three hinges for all doors up to 90" in height and an additional hinge for each additional 30" of door height or portion thereof. Follow the manufacturer's recommendations for locations and quantities.
3. Clearances between the door hinges and latch stiles and the frame should be 1/8" per the hardware template.
  4. All hardware locations, preparations for hardware and methods of hardware attachment must be appropriate for the specific door construction. Templates for specific hardware preparation are available from hardware manufacturers and their distributors.
  5. Pilot holes must be drilled for all screws that act as hardware attachments. "Threaded to the head" screws are preferable for fastening. Insert disposable steel screws first to tap the holes, remove them and then follow with the final hardware finish screws to minimize screw head damage.
  6. In fitting for height, do not trim top or bottom edge by more than 1/2" unless accommodated by special construction in the door at time of manufacture.

### **FINISHING:**

1. As an option, a thinned coat of sanding sealer may be applied to the rails and stiles of each door at the factory. If sealer has been used, sand lightly with the grain to remove prior to the next steps.
2. Wood is hygroscopic and dimensionally influenced by changes in moisture content caused



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by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally and the door must be conditioned to the area before finishing begins.

3. Doors may not be ready for finishing when initially received. Before finishing, remove all handling marks, body oils, raised grain, scuffs, burnishes and other undesired blemishes by block sanding all surfaces. Do this with the door in a horizontal position, using a 120-, 150-, or 180-grit sandpaper. Always sand with the grain.

4. Do not use steel wool at any time.

5. A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance.

6. The door surface being finished must be satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations. The high door weights involved make full drying an essential requirement to ensure a good final finish appearance.

### ***CLEANING AND TOUCH-UP:***

1. Inspect doors prior to hanging them on the job. Repair noticeable marks or defects that may have occurred from improper storage and handling.
2. Field touch-up shall include filling exposed nail

or screw holes, repairing job-inflicted scratches and mars and final cleaning of finished surfaces. These minor field repairs and touch-ups are the responsibility of the installing contractor.

3. When cleaning door surfaces, use a nonabrasive commercial cleaner designed for cleaning wood door or paneling surfaces. Select a cleaner that does not leave a film residue that would affect the surface gloss of the door.

### ***ADJUSTMENT AND MAINTENANCE:***

1. Ensure all doors swing freely and do not bind in their frames. Adjust finish hardware for proper alignment, smooth operation and proper latching without excessive force or excessive clearance.
2. Review with the owner how to periodically inspect the door and frame system to detect frame movement or hardware deterioration.



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