

# Specification — Bullet Resistant Wood Door Assemblies

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

## Bullet Resistant Wood Door Assemblies - UL 752

### **PART 1/GENERAL:**

**1.1 REFERENCE:** The publications that follow form part of this specification: National Institute of Justice Standard 0108.01 – Standard for Ballistic Resistant Protective Materials (September 1985), Underwriters Laboratory UL 752 11th Edition, Standard for Bullet Resisting Equipment (Sept. 5, 2005).

**1.2 SUBMITTALS:** The following shall be submitted in accordance with Sections 01340 and the special contract requirements: submit for approval prior to fabrication samples, brochures, specifications, UL 752 & NIJ Standard 0108.01 Compliance Documentation as provided by H.P. White Laboratory Inc., and printed in sufficient detail to indicate compliance with the contract documents. Manufacturer's instructions for installation of bullet resistant door assemblies shall be provided at time of shipment.

**1.3 DESIGN:** Through the design, manufacturing technique and material application, the bullet resistant assemblies shall be of the "non ricochet type". This design is intended to permit the encapture and retention of an attacking projectile, thereby lessening the potential of a random injury or lateral penetration. UL levels 1, 2, 3 and 6 are available.

**1.4 DELIVERY, STORAGE AND HANDLING:** Deliver doors to the project after receiving the manufacturer's documentaion of compliance with UL 752 and/or NIJ requirements. Handle the doors with care to prevent damage. Store doors inside under cover, stacked flat and off the floor.

**1.5 WARRANTY:** A standard warranty for one year from date of shipment is standard for doors. A limited life of original installation warranty is available as well and must be specified at time of order.

### **PART 2/PRODUCT DETAILS:**

**2.1 BULLET RESISTANT CORE MATERIAL:** The panels shall be made of multiple layers of woven roving ballistic grade fiberglass cloth impregnated with a thermoset polyester resin and compressed into flat rigid sheets. The production technique and materials used shall provide the controlled internal delamination to permit the encapture of a penetrating projectile.

**2.2 SECURITY LEVEL:** The bullet resistant fiberglass will be UL 752 rated or equal.

**2.3 DOOR CONSTRUCTION:** The door shall be furnished with a center core of ArmorCore™. This is bonded on both sides to wood cores and faced with applied hardwood edges. The fiberglass core shall extend to within 1/2" of the door edges and is then faced with hardwood on all four edges. Face veneers or plastic laminate shall be applied over the core of the assembly to match surrounding trims and veneers.

**2.4 HARDWARE PREPARATION:** The door and frame will be prepared for three or more heavy weight butt hinges and a Grade 1 or Grade 2 lever handle cylindrical lock. Hardware locations will match other doors and frames in the area.

### **PART 3/EXECUTION:**

**3.1 SUPPORTING MEMBERS:** Prior to installing the bullet resistant door assembly, the contractor shall verify that adequately braced frame supports have been installed as required by the contract documents and architectural drawings.

**3.2 FRAME:** The bullet resistant frame is to be installed and braced in place to remain plumb and square during its lifetime in its expected environment. Add external bracing in the walls as necessary to ensure alignment is maintained. Test for plumb and square and measure the interior opening before hanging the door.

**3.3 DOOR:** Install the door per DHI and AWI standards and per the written instructions shipped with the door assembly.



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# Technical Data — Bullet Resistant Wood Door Systems

## Product features, specifications and details (interior only)

<b>Thickness</b>	1-3/4" (44.45mm). Available in UL protective levels 1, 2, 3 and 6.	<p>These bullet resistant doors and frames are recommended for architectural use in offices, judicial chambers, law enforcement facilities, etc., where ballistic security is desired. Doors and frames are recommended to be purchased as a single assembly, not individually.</p>
<b>Maximum Size</b>	4'0" x 8'0". Sizes greater than 4080 subject to mill acceptance. Pairs are available up to 8'0" x 8'0".	
<b>Faces</b>	2-ply or 3-ply door skin, at mill option. Wood veneer, reconstituted veneer, MDO or decorative laminates available.	
<b>Stiles and Rails</b>	Edge banded with matching hardwood.	
<b>Core Adhesive</b>	Type 2 standard, Type 1 (waterproof), optional.	
<b>Core</b>	Multiple layers of woven roving ballistic grade fiberglass cloth impregnated with a thermoset polyester resin and compressed into flat rigid sheets. Bonded with wood core on both sides as a base for veneer or laminate coverings.	
<b>Core Thickness</b>	1/4" to 7/16" (6.35mm to 34.9mm). Specify protection level required (UL-1, 2, 3 and 6).	
<b>Door Lites</b>	Total area of the cutout cannot exceed 40 percent of door area (30" wide or 54" high maximum). 1,296 sq. in. maximum clear lite. Metal lite frame kit and bullet resistant glass must match UL level requirement of project. Minimum distance from lite cutout to hardware cutout or edge is 3-1/4".	
<b>Other Detail Work</b>	Factory fitting and machining.	
<b>Finishes</b>	Unfinished. Laminates are ready to hang.	
<b>Frame Construction</b>	Hollow metal profile shielded with bullet resistant core material equal in protection level to door core material and securely fastened in place.	
<b>Warranty</b>	One year from date of shipment is standard. Other terms up to limited original life of installation are available from the factory and must be specified at time of order.	

### NOTES:

1. Door weights are high due to bullet resistant core content. Select hardware for the application accordingly.
2. Use of door without approved frame is not recommended and not warranted.
3. For interior applications only.
4. Not available in double egress designs.
5. Bullet resistant astragal required with pairs.



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