

Specification — Bullet Resistant Fiberglass

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

Bullet Resistant Fiberglass - 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 10th Edition, Standard for Bullet Resisting Equipment (March 10, 2000).

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 Laboratories, and printed in sufficient detail to indicate compliance with the contract documents. Manufacturer's instructions for installation of bullet resistant fiberglass 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 the materials to the project with the manufacturer's UL 752 and/or NIJ compliance labels intact and legible. Handle the material with care to prevent damage. Store materials inside under cover, stacked flat and off the floor.

1.5 WARRANTY: All materials and workmanship shall be warranted against defects for a period of one year from date of receipt at the project site.

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. The bullet resistant fiberglass shall be 1/2" maximum thickness and five pounds per square foot maximum weight.

PART 3/EXECUTION:

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

3.2 JOINTS: All joints shall be reinforced by a backup layer of bullet resistant material. The bullet resistance of the joint, as reinforced, shall be at least equal to that of the panels. The minimum width of the reinforcing layer at the joint shall be 4" (2" on each panel or a 2" minimum overlap).

3.3 APPLICATION: ArmorCore™ shall be installed in accordance with the manufacturer's printed recommendations. ArmorCore™ panels shall be adhered using an industrial adhesive, mastic, compression or bolts. The method of application shall maintain the bullet resistance rating at junctures with the concrete floor slab, the roof slab, the bullet resistant doors and frames, the bullet resistant window frames and all required penetrations.



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