



## SECTION 13070

### BULLET-RESISTANT FIBERGLASS ARMOR PANELS

#### PART 1 - GENERAL

##### 1.01 DESCRIPTION

###### A. WORK INCLUDED:

1. All labor, material, equipment, and services necessary to furnish and install bullet-resistant fiberglass armor panels to be located as shown on the construction.
2. Related sections:
  - a.

###### B. RELATED DOCUMENTS:

1. Underwriters Laboratory, UL 752, Current Edition, Standard for Bullet-Resisting Equipment

##### 1.02 QUALITY ASSURANCE

A. Ballistic Performance: Certification shall be furnished indicating that all materials have been tested in accordance with the appropriate test procedures.

B. Obtain bullet-resistant components through one source from a single manufacturer.

##### 1.03 SUBMITTALS

A. Shop Drawings shall be submitted for approval prior to the shipment of materials. The drawings shall include plan views, elevations, sections, and details of the proposed installation including attachment methods.

B. Drawings shall indicate dimensions, component profiles, and material finishes.

C. Manufacturer's warranty and product data, glazing product information, and installation instructions shall be included with the submittal package.

##### 1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Pack bullet-resistant components on wood palettes for shipment.

B. All items shall be delivered, stored, and handled in a manner that will not damage or deform.

C. Damaged items that cannot be restored to like-new condition shall be replaced.

D. Store crated components in a dry location on platforms or pallets that are adequately ventilated, free of dust, water, and other contaminants, and stored in a manner that permits easy access for inspection and handling.

##### 1.05 JOB CONDITIONS

A. Field Measurements: Contractor shall verify quantities required by field measurement prior to shipment and confirm on Shop Drawings.

1. Quantities should allow for four-inch battens at all seams.

## 1.06 WARRANTY

- A. Warranty Period: Bullet-resistant components shall be warranted for a period of 12 months from the date of shipment.
- B. Warranty is limited to material defects or workmanship and offered to North American Bullet Proof direct customers. Warranty is limited to replacement of product or refund of invoice price at North American Bullet Proof's discretion. Installation, shipping or other cost is not included in this warranty.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURERS

- A. North American Bullet Proof, 106 Guadalupe Drive, P.O. Box 628, Cibolo, TX 78108. Phone 888.746.8427, Fax 210.225.0984

### 2.02 MATERIALS

- A. Bullet-Resistant Fiberglass Armor Panels:
  - 1. Model – Shotgard® Fiberglass Armor Panels, BB-3.
  - 2. Ballistic Resistance Performance Level: U.L. 752 Level 3.
  - 3. Nominal Thickness: 7/16”.
  - 4. Nominal Weight: 4.0 lbs./s.f.
  - 5. Shotgard® Fiberglass Armor Panels to be constructed of a multi-ply ballistic fiberglass laminate produced from ballistic fiberglass and impregnated with a thermostat polyester resin binder. The multi-ply configuration is to provide a delaminating effect when ballistically attacked.
  - 6. Testing: UL Listed to U.L. 752 to level specified

### 2.03 LABELING

- A. Bullet-resistant components shall be plainly and permanently labeled. The label shall be compatible with finishes. The label shall be visible only on the secure side, after installation, and shall include:
  - 1. Manufacturer's name or identifying symbol
  - 2. Model Number
  - 3. Date of manufacture by month and year. This may be done through use of lot number or other traceable code.
  - 4. Correct mounting position including threat side and secure side (by removable label on glazing material).
  - 5. Code indicating bullet-resistant rating and test standard used (by removable label on glazing material).

## PART 3 - EXECUTION

### 3.01 INSPECTION AND PREPARATION

- A. Upon delivery, open the crate and inspect the contents for freight damage. If damaged, notify the freight company of the claim. Check the packing list to make sure all items are present. If any items are missing, notify North American Bullet Proof
- B. Prior to commencing installation, examine all areas to receive the bullet-resistant glazing frames to ensure that they are ready for installation. Components shall be checked and corrected for racking, twisting, and other malformation prior to installation.
- C. Verify that the glazing frames comply with indicated requirements for type, size, and location.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install: Install panels/battens in accordance with manufacturer's instructions and drawings for chosen method.

3.03 ADJUST AND CLEAN

- A. After installation, clean surfaces and touch up any damaged areas.

END OF SECTION