

## SECTION 10 26 41

### BULLET-RESISTANT FIBERGLASS PANELS – ALL LEVELS

#### MODEL # BGAA-1 to 8

**(Specifier Note:** The purpose of this guide specification is to assist the Specifier in correctly specifying fiberglass panels.

The Specifier must edit this guide specification to fit the needs of each specific project. References have been made within the text of the specification to MasterFormat section numbers and titles. The Specifier must coordinate these numbers and titles with sections included for the specific project.

Throughout the guide specification, there are Specifier Notes to assist in the editing of the file. Brackets have been used to indicate when a selection is required. Contact a BGC representative for further assistance with appropriate product selections.)

#### PART 1 - GENERAL

##### 1.1 SECTION INCLUDES

- A. BGC Fiberglass.

##### 1.2 REFERENCES

- A. Underwriters Laboratory UL 752-Standard for Bullet Resisting Equipment.
- B. ASTM C 1172 - Standard Specification for Laminated Architectural Flat Glass.
- C. ASTM E119-98-Standard Test Methods for Fire Tests of Building Construction and Materials,
- D. MIL-P-46593A-Numerical simulation of ballistic impact on composite laminates,
- E. MIL-STD-622F-V50 Ballistic Test for Armor.

##### 1.3 ACTION SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [Insert section number and title].
- B. Product Data: Including manufacturer recommended installation instructions.
- C. Shop Drawings: Include plans, elevations, sections, details, attachment to other work.
- D. Samples: For each exposed glazing type.

#### 1.4 INFORMATION SUBMITTALS

- A. Product Test Reports: Indicating compliance with requirements
- B. Warranty: Sample of warranty

#### 1.5 CLOSEOUT SUBMITTALS

- A. Refer to Section [01 78 00 Closeout Submittals] [Insert section number and title].
- B. Maintenance data.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 60 00 Product Requirements] [Insert section number and title]
- B. Deliver materials to the project site with the manufacturer's UL Listed Labels intact and legible. Handle the materials with care to prevent damage. Store materials inside and under cover, stack flat and off floor. Project conditions (temperature, humidity, and ventilation) shall be within the maximum limit recommendations provided by manufacturer. Do not install products stored in conditions outside manufacturer's recommended limits.

#### 1.7 WARRANTY

- A. Workmanship Warranty: All materials shall be warranted against defects for a period of [1] year for the date of receipt at the project site. Provide certificates of manufacturer's standard limited warranty with closeout documents.
- B. Finish Warranty: Manufacturer's warranty against deterioration of factory finishes for the period of [1] year from the date of Substantial Completion.

(Specifier Note: Product information is proprietary to BGC. If additional products are required for competitive procurement, contact BGC for assistance in listing competitive products that may be available.)

## PART 2 - PRODUCTS

### 2.1 MANUFACTURED UNITS

- A. Basis of Design:
  - 1. Subject to compliance with requirements, provide products by the following:
    - a. Bullet Guard Corporation, 3963 Commerce Dr. West, Sacramento, CA

95691, (916) 526-3255, Attn: Sales Department, info@bulletguardmail.com.  
Web: www.bulletguard.com.

2. Subject to compliance with requirements, manufacturers of products of equivalent design may be acceptable if approved in accordance with **[Section 01 25 00 Substitution Procedures] [Insert section number and title]**.

## 2.2 BULLET RESISTANT ALL GLASS GLAZING

- A. Through the design, manufacturing techniques and material application, the BGC Fiberglass 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.
- B. BGC Fiberglass will be rated and tested for UL 752 and NIJ—0108.01 at the Level indicated by the product selected

## 2.3 FABRICATION

- A. Tolerances: All joints and connections shall be tight, providing hairline joints and true alignment of adjacent members.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Prior to beginning installation, verify that areas have been prepared as required by the Contract Documents and architectural drawings, and Shop Drawings have been approved.
- B. Notify Architect of any unsatisfactory preparation that is responsibility of others.
- C. Clean and prepare all surfaces per manufacturers recommendations as required for achieving the best results for the substrate under the project conditions.
- D. Do not begin installation of material until all unsatisfactory conditions have been resolved and approved by Architect.

### 3.2 INSTALLATION

- A. Do not begin installation until areas have been verified and surfaces properly prepared in accordance with Drawings.
- B. Install in accordance with manufacturer's instructions and UL 752. Set all equipment plumb.
- C. Apply sealant in accordance with manufacturer's recommendations as indicated in

installation instructions.

- D. Remove excess sealant and leave exposed surfaces clean and smooth

### 3.3 PROTECTION

- A. Clean and protect material from damage during ongoing construction operations. If damage occurs, remove and replace as required to provide voice ports in their original, undamaged condition.
- B. Inspection and Cleaning: Verify installation is complete and complies with manufacturer's requirements.
- C. Provide final cleaning of product and accessories, removing excess sealant, labels and protective covers.
- D. Touch-up, repair or replace damaged products prior to Substantial Completion.

**END OF SECTION**