

SECTION 10-2641

BULLET-RESISTANT FIBERGLASS SHEET

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Bullet-resistant fiberglass sheet for use in [partition] [casework] [] assemblies.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.
 - 2. Section [06 1100 - Framing and Sheathing] [] - Wood framing to receive bullet-resistant sheet.
 - 3. Section [06 4100 - Architectural Wood Casework] [] - Casework to receive bullet-resistant sheet.
 - 4. Section [09 2200 - Metal Support Assemblies] [] - Metal framing to receive bullet-resistant sheet.

1.2 REFERENCES

- A. ASTM International (ASTM) E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
- B. Underwriters Laboratories (UL) 752 - Bullet Resisting Equipment.

1.3 SYSTEM DESCRIPTION

- A. Design Requirements: Provide bullet-resistant sheet of "non-ricochet type" intended to permit capture and retention of attacking projectile, lessening potential of random injury or lateral penetration.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Product Data: Include product description for bullet-resistant sheet including bullet-resistant ratings.
- B. Sustainable Design Submittals:
 - 1. Regional Materials: Indicate cost of products harvested, extracted, recovered, or manufactured within 500 mile radius of Project site.

1.5 WARRANTIES

- A. Provide manufacturer's 2 year warranty providing coverage against defects in materials and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Action Bullet Resistant, 235 Union Blvd., West Islip NY 11795, 800-962-8088, www.actionbullet.com.
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Bullet-Resistant Fiberglass Sheet:
 - 1. Source: Opaque Fiberglass.
 - 2. Description:
 - a. Manufactured from multiple layers of woven roving ballistic grade fiberglass cloth impregnated with thermoset polyester resin, compressed into flat rigid sheets.
 - b. Provide controlled internal delaminating to permit capture of penetrating projectile.
 - 3. Ballistic Level: [1,] [2,] [3,] [4,] [5,] [6,] [7,] [8,] tested to UL 752.
 - 4. Fire rating: 1 hour, tested to ASTM E119.

2.3 ACCESSORIES

- A. Adhesives and Fasteners: Type recommended by bullet-resistant sheet manufacturer for specific application.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Cut panels to fit at perimeter and around penetrations.
- C. Reinforce joints between sheets with minimum 4 inch wide backup layer of bullet-resistant sheet, centered on joint. Bullet-resistance of reinforced joint at least equal to ballistic level of panel.
- D. Fasten or adhere panels to supports in manner to maintain bullet-resistive rating at perimeter, junctures with other materials, and penetrations.

END OF SECTION