**SECTION 10-2641**

**BULLET-RESISTANT FIBERGLASS SHEET**

# PART 1 GENERAL

1.1 SUMMARY

1. Section Includes:

 1. Bullet-resistant fiberglass sheet for use in [partition] [casework] [\_\_\_\_] assemblies.

1. 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

1. ASTM International (ASTM) E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.

1. 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

1. Submittals for Review:

1. Product Data: Include product description for bullet-resistant sheet including bullet-resistant ratings.

1. 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.

Action Bullet Resistant 10-2641 Bullet-Resistant Fiberglass Sheet

08/31/15

# PART 2 PRODUCTS

2.1 MANUFACTURERS

1. Contract Documents are based on products by Action Bullet Resistant, 235 Union Blvd., West Islip NY 11795,800-962-8088, www.actionbullet.com.

1. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

 A. Bullet-Resistant Fiberglass Sheet:

* 1. Source: Opaque Fiberglass.
	2. Description:
		1. Manufactured from multiple layers of woven roving ballistic grade fiberglass cloth impregnated with thermoset polyester resin, compressed into flat rigid sheets.
		2. 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

1. Install in accordance with manufacturer’s instructions.

1. Cut panels to fit at perimeter and around penetrations.

1. 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.

1. Fasten or adhere panels to supports in manner to maintain bullet-resistive rating at perimeter, junctures with other materials, and penetrations.

END OF SECTION