

ARCHITECTURAL SPECIFICATION for  
**LUMAGARD™ FIBERGLASS ARMOR SHEETS**

**PART I GENERAL**

**1.1 Specification includes**

- A. LUMAgard™ bullet-resistant fiberglass sheets.

**1.2 Related sections**

- A. 13070 Bullet-resistant protection

**1.3 Submittals**

- A. Manufacturer's printed product information, including product performance and installation.
- B. Material safety data sheet (MSDS), including guidelines for safe fabrication and handling.

**PART II PRODUCTS**

**2.1 Manufacturer**

- A. American Acrylic Corporation manufactures LUMAgard™ fiberglass armor sheets.
- B. address: 400 Sheffield Avenue  
West Babylon, New York 11704  
phone: 800-627-9025 or 631-422-2200  
fax: 631-422-2811  
e-mail: [Lumagard@aol.com](mailto:Lumagard@aol.com)

**2.2 Opaque bullet-resistant sheets for walls, partitions and millwork.**

- A. Material: fiberglass structural armor (non-transparent).
- B. Standard sheet sizes: 3' x 8', 4' x 8', and 4' x 10'. (Custom sizes up to 5' x 12' can be supplied in some products).
- C. Protection levels: UL 752 levels 1, 2, 3, 4 and 6.

**2.3 Material specifications by level of protection**

**A. LUMAgard™ AG-1.5**

- protection: UL 752 level 1
- thickness: 5/16" (nom.)
- weight: 2.6 lbs. per square foot

**B. LUMAgard™ AG-200**

- protection: UL 752 level 2 and level 6
- thickness: 3/8" (nom.)
- weight: 3.2 lbs. per square foot

**C. LUMAgard™ AG-300**

- protection: UL 752 level 3
- thickness: 7/16" (nom.)
- weight: 4.4 lbs. per square foot

**D. LUMAgard™ AG-475**

- protection: UL 752 level 4
- thickness: 1-3/8" (nom.)
- weight: 14.4 lbs per square foot

## **Part 3 APPLICATION**

### **3.1 Installation**

- A. Bullet-resistant sheets are ordinarily mechanically fastened to the side of the supporting structure that the threat is expected to come from. Install the largest continuous panel that is practical. Reinforce joints (in front or behind) with 4-inch wide strips of the same material.
- B. LUMAgard™ sheets expand slightly upon impact as part of the normal dissipation of energy from incoming bullets. When installing against masonry block or other very hard surface, leave a 1/4-inch (minimum) gap by shimming the sheets.

### **3.2 Fabrication**

- A. Fiberglass armor sheets are readily cut and drilled using tools commonly used to cut and drill metals. Wear eye protection. Dust generated can be hazardous. Wear a protective mask to avoid inhaling the dust. Refer to the material safety data sheet (MSDS) for other important safety information.
- B. Finishing materials (including sheet rock and decorative laminates) are readily bonded to fiberglass armor sheets using construction-grade contact adhesives or urethane adhesives. Epoxy adhesives may require that the surface be sanded.

### **3.3 Maintenance**

- A. LUMAgard™ sheets can be cleaned using detergent and water.