

## Part I – General

### 1.1 Scope

A. Furnish letters and hardware necessary to install Laser Cut Acrylic, shown on drawings and herein specified.

### 1.2 Submittals

- A. Manufacturer's illustrated product literature and specifications.
- B. Installation instructions

### 1.3 Quality Assurance

- A. Manufacturer to have a minimum of 25 years experience in manufacturing letters.
- B. All letters to be manufactured by one manufacturer.

## Part II – Products

### 2.1 Acceptable Manufacturer or Manufacturer's Representative

- A. Gemini Incorporated  
103 Mensing Way  
Cannon Falls, MN 55009  
Phone: 800-538-8377 or 507-263-3957  
Fax: 800-421-1256 or 507-263-4887  
Email: sales@geminisignproducts.com  
Web: www.geminisignproducts.com

### 2.2 Materials (Impact-modified acrylic)

- A. Gemini manufactures impact-modified extruded acrylic sheet, in multiple standard pigmented colors 1/8" to 1/2" thick and 3/4" – 1-1/2" thick Cast Acrylic sheet that can be liquid painted. Gemini's acrylic offers good rigidity, tensile strength, and is resistant to chemicals & corrosion - UV inhibitors help prevent colors from fading - Impact modifiers added to help prevent material from breaking.

### 2.3 General Construction.

- A. Gemini's Laser cut acrylic letters & logos are cut from impact modified extruded acrylic sheet, pigmented or painted. Extruded gauges: 1/8", 3/16", 1/4", 3/8", and 1/2" thickness. Pigmented or painted, standard or custom colors. Cast gauges: 3/4", 1" & 1-1/2" thickness. Painted any standard or custom color.
- B. Laser cut with a slight radius on all inside and outside corners. Filet sizes are based on part sizes and gauge. This radius helps to prevent letters from cracking during shipment and installation. Radius average = .050".
- C. Computerized vector files are imported and cleaned to properly cut a quality product. The degree of cleaning is more critical with a laser to produce a quality finished product.
- D. Largest single piece that can be laser cut and shipped is 46" x 93". Larger shapes can be cut in pieces. Letters can be laser cut as small as 3/4" high (with 1/8" thick material). Larger letters will typically require a thicker gauge material.
- E. Laser cutting will produce a smooth edge (return). Edge finish will vary based on pigmented color or paint.
- F. Laser cut acrylic panels and logos are available painted or custom printed with 1200 dpi resolution – UV resistant ink.
- G. Impact Strength of 1.2, with a HN Flammability Rating. Vicat Softening Temperature of 227°F. Flame Spread Index 115. Smoke Develop Index 550. Self Ignition Temperature 833.

### 2.4 Mounting Hardware

- A. Mounting options: plain, double face 25mil tape, studs, pads, or a combination of the two for typical mounting options. Letters 3/8" and thicker can be precision drilled & tapped for a Flush Stud mount. Optional spacers available.
- B. Studs: Laser cut acrylic letters and logos are typically stud mounted with 6-32 or 10-24 studs. 5056 Aluminum alloy studs are standard. Stainless Steel 302 alloy studs - optional. 2" long studs are standard – longer studs available upon request.
- C. Decorative Metal Stand-Offs, available for mounting acrylic panels. Clear Anodized Aluminum Stand-Offs are 1/2" or 1" diameter, with 3/4" or 1-1/2" stand-off options.

### 2.5 Manufacture

- A. Letters/Logos shall be made of Laser Cut Acrylic.
- B. Letter shall be \_\_\_\_\_ letter style and shall be \_\_\_\_\_ inches high, as indicated on drawings.
- C. Mounting shall be \_\_\_\_\_ and a perfect pattern or drill pattern, designating stud locations are / are not required for mounting on a \_\_\_\_\_ surface.

## Part III – Execution

### 3.1 Installation

- A. A qualified installer shall install Laser Cut Acrylic Letters and Logos.

### 3.2 Warranty

- A. Letters should be guaranteed for the life of the business against defects.

### 3.3 Maintenance

- A. Cleaning as needed per manufacturer recommendations.