

## 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 20 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@geminishignproducts.com  
Web: www.geminishignproducts.com

### 2.2 Materials (Impact-modified acrylic)

- A. Gemini manufactures its own sheets of impact-modified acrylic in 32 standard pigmented colors 1/8" to 1/2" thick and 3/4" & 1" thick Cast Acrylic sheet that can be 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 extruded acrylic sheet is impact modified, pigmented, and available in 1/8", 3/16", 3/8", 1/4" and 1/2" thick. Cast acrylic sheet is available in 3/4" and 1" thickness. All gauges can be painted any standard or custom color.
- B. Letters are laser cut with a slight radius on all inside corner, based on part size 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. The largest single piece we can laser cut and ship 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 provide a smooth edge (return). Edge finish will vary based on pigmented color.
- F. 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. Acrylic letters are available plain, with double face tape, studs, pads, or a combination of the two for mounting options. Letters 3/8" and thicker can be drilled & tapped for a Flush Stud mount.
- B. Laser Cut Acrylic Letters and Logos are mounted with 6-32, 10-24, or 1/4-20 studs. Aluminum studs are standard. Stainless Steel studs optional. 2" long studs are standard – longer studs available.
- C. Décorative Metal Stand-Offs available for mounting acrylic panels. Clear Anodized Aluminum Stand-Offs are 1/2" or 1" diameter, with short (3/4") or long (1-1/2") stand-off options.

### 2.5 Manufacture

- A. Letters/Logos shall be made of Laser Cut Acrylic.
- B. Letter shall be \_\_\_\_\_ letterstyle and shall be \_\_\_\_\_ inches high, as indicated on the drawings.
- C. Mounting shall be \_\_\_\_\_ and a mounting template designating stud locations is/is 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.