

## 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@geminisignproducts.com

Web: www.geminisignproducts.com

### 2.2 Materials (Impact-modified acrylic)

A. Gemini manufactures its own impact-modified 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 are cut from extruded acrylic sheet that is impact modified, pigmented, and available in 1/8", 3/16", 3/8", 1/4" and 1/2" thickness – or custom color painted. Thicker letters are cut from cast acrylic sheet in 3/4", 1" & 1-1/2" thickness, then painted any standard or custom color, using 3 part acrylic polyurethane paint.

B. Letters are laser cut with a slight radius on all 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. The 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. 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 typically 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. Décorative 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 \_\_\_\_\_ 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.