

# METAL LAMINATE on FOAM Letters/Logos Specifications

Rev. 4/4/19

## Part I – General

### 1.1 Scope

- A. Furnish letters/logos and hardware necessary to install metal laminate on rigid urethane foam, as 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@geminsignproducts.com  
Web: [www.GeminiSignProducts.com](http://www.GeminiSignProducts.com)

### 2.2 Materials (Metal Laminate on Rigid Urethane Foam)

- A. Metal Laminate on Foam letters are produced with a 12 lb/cubic foot, Closed Cell, Rigid Urethane Foam base, 1/2" to 3" thick.  
Gemini's foam offers resistance to water absorption, will not swell, crack or split when exposed to water, but is still designed for interior use only.
- B. .030" Metal Face Laminate (CHEMETAL Alum), available in multiple colors and metal finishes (standard and special order options), per current catalog.
- C. .030" ABS Plastic Back Laminate, to add rigidity and allow for hardware bonding.

### 2.3 General Construction.

- A. Metal Laminate is bonded to a rigid foam base, using a Bern-Lok process of lamination. Optional 1/8" acrylic.
- B. Computerized vector files are imported, cleaned and orientated for cutting.
- C. Routing: laminate sheet is oriented to allow for a horizontal grain direction, vertical direction available upon request.
- D. Letter heights range from 4" to 24". Largest single piece is 47" x 47". Minimum stroke of .375" for most hardware.
- E. Laminate sheet is router cut with a .070"-.190" corner radius (based on foam thickness and size), per art file.

### 2.4 Mounting Hardware

- A. Mounting: plain (no hardware), double face tape (partial coverage), stud, pad, combination, or combination all. Foam letters can be drilled and tapped for a flush stud mount. Standard stud blocks will stand-off approx.. 3/8".
- B. Hardware: 6/32 or 10/24 aluminum threaded studs, optional stainless steel studs). Typical 2-3" long. Aluminum spacers available upon request.

### 2.5 Manufacture

- A. Letters shall be made of metal laminate on rigid foam.
- B. Letters shall be \_\_\_\_\_ letter style and shall be \_\_\_\_\_ inches high, and \_\_\_\_\_ inches thick 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 metal laminate on foam letters.

### 3.2 Warranty

- A. Laminate letters are designed for interior use only. Exterior use does not carry a warranty.

### 3.3 Maintenance

- A. Cleaning as needed per manufacturer recommendations.