Injection Molded Plastic Letters Specifications

Part I - General

1.1 Scope

A. Furnish letters and hardware necessary to install Minnesota ™ injection-molded plastic letters shown on drawings and herein specified.

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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

- A. CAB (Cellulose Acetate Butyrate)
- B. Material tested to J2527, based on test parameters of SAE J1960 for UV exposure resistance.
 - 1. Specific heat of about 0.35. Specific Gravity 1.16-1.21
 - 2. Heat Combustion of approximately 10,400 BTU per pound (2.42 x 107 J/Kg).
 - 3. Self Ignition temperature of 880° F (470°C), using ASTM D 1929.
 - 4. UL94 Flame Class: 94HB. Flame Spread Index: 130 (NFPA 286: Group B: Flame Spread: 26-75)
 - 5. Burn rate of .08/min.
 - 6. Smoke Develop. Index: 416
 - 7. Thermal Expansion rate: .00008/inch.

2.3 General Construction

- A. Injection Molded in either Standard Styles, Architectural (prismatic), Helvetica, Optima, Roman, Standard Block, or Times Bold, in multiple standard sizes per current catalog or custom produced for National Programs.
- B. Pigmented white or painted any standard or custom color with liquid acrylic polyurethane, then oven baked.
- C. Profiles: Flat face and Prismatic Face (Architectural).
- D. Edges are sharp, square and clean with a consistent letter wall thickness.
- E. Depths ranging from 3/8"-1-1/2", based on style and size.
- F. Plastic letters with the look of painted metal with dimension.

2.4 Mounting Hardware

- A. Injection molded plastic letters (formerly called Minnesota Letters) available plain, stud, pad, combination, or combination all for mounting options.
- B. Injection molded plastic letters are mounted with 10/24~5052 alloy aluminum threaded studs, optional 302 alloy stainless steel threaded studs, pads, or a combination of the two. Typical studs are 2''-3''long.

2.5 Manufacture

A. Letters shall be made of CAB plastic.			
B. Letter shall be	letter style,	color, and shall be	_ inches high, as indicated on the
drawings.			
C. Mounting shall be	and a mounting template	e designating stud locations (IS /	IS NOT) required for mounting on
a surface.			

Part III - Execution

3.1 Installation

A. A qualified installer shall install Minnesota™ injection molded plastic letters.

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.