

Minnesota™ 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.

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@signletters.com
Web: www.signletters.com

2.2 Materials (Wood and cotton-based plastic)

- A. Cellulose Acetate Butyrate (C.A.B.)

2.3 CAB has the following specific characteristics (sheet used for formed letters is approximately .143" thick)

1. A specific heat of about 0.35.
2. A heat of combustion of approximately 10,400 BTU per pound (2.42 x 10⁷ J/Kg).
3. An auto-ignition temperature of about 880° F (470°C).
4. UL94 Flame Class: 94HB
5. Burn rates for sheet, as determined in testing under ASTM Test Method D 635:
 - Approximately 1.0 in/min (2.6 cm/min) for .125" (3.18 mm) thick material.
 - Approximately 0.8 in/min (2.1 cm/min) for .150" (3.81 mm) thick material.

2.4 Mounting Hardware

- A. Minnesota™ injection molded plastic letters have plain, stud, pad, combination, or combination all for mounting options.
- B. All Minnesota™ injection molded plastic letters use 3/16" aluminum studs

2.5 Manufacture

- A. Letters shall be made of cellulose acetate butyrate.
- B. Letter shall be _____ letterstyle, _____ color, 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 Minnesota™ injection molded plastic letters.

3.2 Warranty

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