

Part I – General

1.1 Scope

A. Furnish letters and hardware necessary to install cast letters/logos, 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 25 years experience in manufacturing Letters/Logos.

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 (Metal Alloys)

A. Aluminum – 514 Alloy (containing pre-consumer internally recycled trim – available for LEED points)

B. Bronze – NAVY G (lead and mercury free bronze) alloy.

2.3 Finishes (meeting ASTM G4A specifications)

A. Aluminum (Alloy #514)

1. Brushed: directionally sanded faces to a standard #2-#3 finish, (#4 finish optional), vertical grain direction (optional horizontal grain, random arc, or orbital sanded), blasted returns, low-gloss clear powder coated, baked.

2. Painted: (standard or custom colors), directionally sanded faces, cleaned returns, liquid sprayed with a 2-part hardened acrylic polyurethane, oven baked to cure paint.

3. Clear Anodized: directionally sanded faces, cleaned returns, anodized to meet A31 Aluminum Architectural Class II anodized finish (.4-.7 mil), no clear coat.

4. Gold Anodized: directionally sanded faces, cleaned returns, anodized to meet A43 Aluminum Architectural Class I anodized finish (.7-1 mil), no clear coat.

5. Light Bronze Anodized: directionally sanded faces, cleaned returns, anodized to meet A44 Aluminum Architectural Class I anodized finish (.7-1mil), no clear coat.

6. Medium Bronze Anodized: directionally sanded faces, cleaned returns, anodized to meet A44 Aluminum Architectural Class I anodized finish (.7-1 mil), no clear coat.

7. Dark Bronze Anodized: directionally sanded faces, cleaned returns, anodized to meet A44 Aluminum Architectural Class I anodized finish (.7-1 mil), no clear coat.

8. Black Anodized: directionally sanded faces, cleaned returns, anodized to meet A44 Aluminum Architectural Class I anodized finish (.7-1mil), no clear coat.

9. Champagne Anodized: directionally sanded faces, cleaned returns, anodized to meet A44 Aluminum Architectural Class I anodized finish (.7-1mil), no clear coat.

10. Buffed (near-polish #6-#7 finish): buffed faces, (not a mirror finish, with some visible casting imperfections), blasted returns, sprayed with 2 -part hardened clear polyurethane, baked.

11. Rust Powder coated: directionally sanded faces, cleaned returns, powder coated with Rust color paint, baked.

B. Bronze (NAVY G Alloy – lead & mercury free)

1. Brushed: directionally sanded faces, #2-#3 finish (#4 optional), vertical grain direction standard (horizontal optional), blasted returns, sprayed with 2-part hardened acrylic polyurethane low-gloss clear coat, baked.

2. Polished US9 Finish: polished face — #8 Finish, blasted returns, 2-part hardened acrylic polyurethane gloss clear coat, baked.

3. Light Oxidized US10B Finish: directionally sanded face (vertical standard), cleaned returns, oxidized, then faces are hand rubbed, directionally, to a light oxidized finish (exposing most bronze), returns left black, low-gloss clear coated, baked.

3. Oxidized US10B Finish: directionally sanded face (vertical standard), cleaned returns, oxidized, then faces are hand rubbed, directionally, to create an oxidized (antique) look (slightly exposed bronze), returns left black, low-gloss clear coated, baked.

3. Dark Oxidized US10B Finish: directionally sanded face, cleaned returns, oxidized, then faces are lightly hand rubbed, directionally, to create a Dark Bronze look (minimal bronze exposed), low-gloss clear coated, baked.

4. Traditional or Turquoise Patina: belt sanded face, cleaned returns. Faces and returns chemically treated to create a colored patina look (finish will vary from letter to letter, not uniform), with a light clear coating, then baked.

2.4 General Construction

- A. Gemini Cast Aluminum/Bronze Letters & Logos - in one of multiple company foundries.
- B. Styles: Cast in standard catalog styles or produced custom per customer's vectorized art files.
- C. Finish: Cast Letters & Logos are hand finished per order, per customer specifications. Face grain direction, vertical standard, horizontal optional. Returns are either cleaned or blasted.
- D. Sizes: Standard styles up to 48". Custom letters up to 64" high, logos up to 64"x.64".
- E. Certifications: Gemini's metal products are certified for the Buy American Program, the Made in America requirements of the American Recovery Act of 2009, the EU REACH program, and qualify jobs for LEED program points.

2.5 Mounting Hardware & Options

- A. Blind stud standard, available aligned for Brick, Block, Rail. Optional Single or Double Rail, Top or Bottom Rail, Bottom Angle Brackets, Top or Bottom Stud.
- B. Letters under 15", drilled & tapped for 10-24 threaded studs. Thin strokes with 6-32 or 4-40 threaded studs.
- C. Letters 15"+, drilled & tapped for 1/4-20 threaded studs (Aluminum studs with Alum letters, Stainless Steel studs with Bronze letters).
- D. Aluminum spacer sleeves available upon request. Standard lengths per catalog offerings. Custom lengths upon request.

2.6 Manufacture

- A. Cast metal letters/logos shall be made of _____.
- B. Letters shall be _____ letter style and shall be _____ inches high, as indicated on drawings.
- C. Logos shall be per art file and shall be _____ inches high, as indicated on drawings.
- D. Finish shall be _____.
- E. Mounting shall be _____ with a drilling pattern. Designated stud locations, are/ are not, required for mounting on a _____ surface.

Part III – Execution

3.1 Installation

- A. A qualified installer shall install cast letters/logos. Additional structural support may be required for larger/heavier pieces.

3.2 Warranty

- A. Cast products shall be guaranteed for the life of the business against defects and re-finished upon request.

3.3 Maintenance

- A. Regular cleaning of letters/logos is required, as needed, per manufacturer's recommendations.