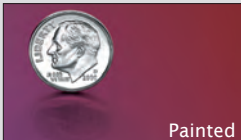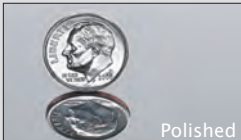# Gemini Stainless Steel Fabricated Letters

Alloy 304: The standard stainless steel alloy used by Gemini is #304, which will resist tarnishing under most circumstances. Titanium-coated stainless provides the ultimate "Gold" finish available. This material is comprised of #304 stainless coated with a thin layer of tinted titanium. Due to the fabrication process, the edge of all faces on letters and logos will have a thin line of exposed #304 stainless that will be buffed smooth on polished letters, or stroked on natural satin letters to maintain consistency in appearance. Other colors of titanium-coated stainless are also available upon request.

Natural Satin

Satin Gold Titanium

Painted

Polished

Polished Gold Titanium

Other Material Specifications

For most letters, 20-gauge material provides the proper balance of strength and weight. Some larger letters require 18-gauge material for extra strength.

All letters are hand welded, and tests on our welds indicated the ability to withstand temperatures below -40° F and exceeding to 350° F.

The standard polished material used by Gemini is a high grade of single directional polish. Virtually no grain is visible to the naked eye. For the most discerning customers, we also offer a truly non-directional polished material at a slightly higher cost.

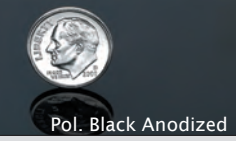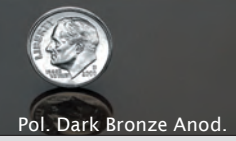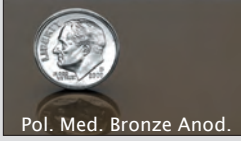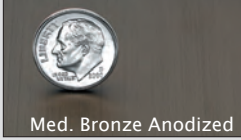Gemini uses only lead-free silver solder for all fabricated letters and logos.

The standard mounting methods for fabricated letters involve a welded strap joining the returns of the letter with a stud-welded boss to accept mounting studs centered on the strap. This method produces an exceptionally strong fabricated letter by giving strength to the already formidable welded side returns.

18 or 20 Gauge Face

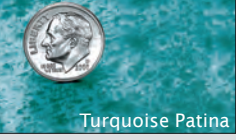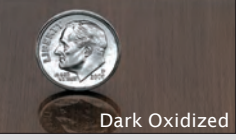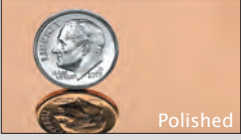22 or 24 Gauge Return

Gemini Flat Cut Metal Finishes

Aluminum *(1/8", 1/4", 3/8", 1/2", 3/4" & 1")*

Alloy 5052: Flat Cut Aluminum letters use Alloy #5052, which offers good cutting, welding and corrosion resistance. It is also excellent for anodizing and has a superior hardness rating of H32, which prevents surface damage.

Natural Satin

Clear Anodized

Painted

Polished

Polished Clear Anodized

Nouveau Patina

Gold Anodized

Med. Bronze Anodized

Dark Bronze Anodized

Black Anodized

Pol. Gold Anodized

Pol. Med. Bronze Anod.

Pol. Dark Bronze Anod.

Pol. Black Anodized

Bronze *(1/8", 1/4", 3/8" & 1/2")*

Alloy 22000: Flat Cut Bronze uses alloy C22000, comprised of 90% copper & 10% zinc - 0% lead.

Natural Satin

Oxidized

Verde Patina

Polished

Dark Oxidized

Turquoise Patina

Brass *(1/8", 1/4", 3/8", 1/2" & 3/4")*

Alloy C46400: Flat Cut Brass letters use alloy C46400 Naval Brass; 60% copper, 39.25% zinc and .75% tin – 0% lead.

Muntz Alloy: Muntz metal uses alloy C280 which is nearly identical to C46400 Brass. It is comprised of 60% copper & 40% zinc – 0% lead.

Natural Satin

Polished

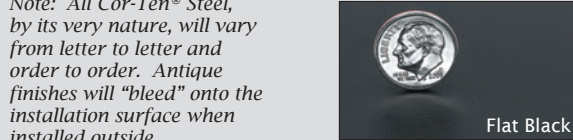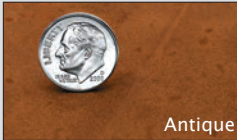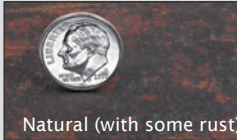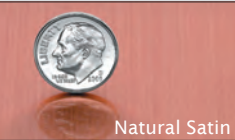# Stainless Steel *(1/8", 1/4", 3/8" & 1/2")*

Alloy C304: Stainless Steel alloy C304 offers some corrosion resistance.

Alloy 316: Stainless Steel alloy 316 offers better corrosion and tarnishing resistance for marine and harsh environments.

NOTE: All stainless steel letters and logos are shipped without a clear polyurethane coating. Alloy C304 will not tarnish under most conditions. In cases where stainless steel letters and logos will be installed in salt water environments Alloy 316 offers even better corrosion and tarnishing resistance. Using harsh chemicals may cause permanent damage to the materials surface. Gemini recommends warm soapy water to clean.

Stainless Steel Alloy C304 Natural Satin

Stainless Steel Alloy 316 Natural Satin

Stainless Steel Alloy C304 Polished

Stainless Steel Alloy 316 Polished

Copper *(1/8", 1/4" & 3/8")*

Alloy C11000: Flat Cut Copper letters use alloy C11000, which offers good cutting, welding and corrosion resistance.

Natural Satin

Polished

Cor-Ten® Steel *(1/8" & 1/4")*

Gemini's Waterjet Cut Cor-Ten® Steel is the ideal material for a rustic or antique look. Exceedingly durable, you can choose between Natural (with some rust), Flat Black or Antique finishes.

Natural (with some rust)

Antique

Note: All Cor-Ten® Steel, by its very nature, will vary from letter to letter and order to order. Antique finishes will "bleed" onto the installation surface when installed outside.

Flat Black

GeMINI Metal Letters *(1/8" & 3/16")*

Elegantly crafted for interior needs, yet sturdy enough for exterior signage, Ge*MINI* Metal Letters are perfect for extremely small applications when quality is most important. Ge*MINI* Metal Letters are precision-made mini-metal letters that are ideal where the use of extremely small letters is a necessity. Made of the finest grade bronze, brass and aluminum and finished to the same quality standards as other Gemini metal letters, Ge*MINI* metal letters are produced in sizes ranging from 1/2" to 2" in height. Aluminum mini letters come in natural satin, painted, or polished finish. To obtain the tight precision required on letters of this size, Gemini is currently limiting the thickness of Ge*MINI* Metal Letters to between 1/8" and 3/16". In addition, due to the small size and thin strokes of these letters, anodized and patina finishes are not available.

Specifications Booklet
Metal Letters & Logos

For More Information on Architectural Identification Contact:

buygemini.com

Project:

Name:

Specify GEMINI for Lead-Free Materials With a Lifetime Guarantee.

Gemini Cast Aluminum Finishes

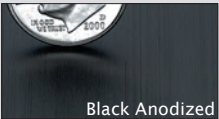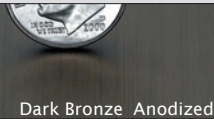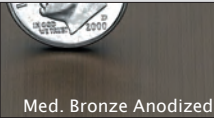**Natural Satin** — Natural Satin finish uses aluminum alloy #356. Letters are stroked vertically and receive a protective clear coat.

Painted — Painted finish uses aluminum alloy #319. Letters are oven baked after being coated with a 2-part, hardened acrylic polyurethane coating. Choose from any of the standard Gemini colors or supply us with your own custom color. Specify Gloss, Semi-Gloss, Satin or Matte

Nouveau Patina — Nouveau Patina finish uses aluminum alloy #319. Letters are powder coated to provide a look of weathered copper or bronze.

Clear Anodized

Gold Anodized

Med. Bronze Anodized — Anodized finishes use aluminum alloy #514. Letters are anodized, an electro-chemical process, which imbeds the colored dye into the microscopic pores in the surface of the letter. Colored anodizing dyes available include medium bronze, dark bronze, gold or black anodic.
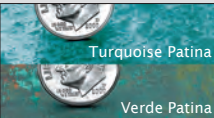
Black Anodized

Dark Bronze Anodized

LIFETIME GUARANTEE

Gemini Cast Bronze Finishes

Natural Satin — Natural Satin finish uses alloy NAVY G88-8-0-4. Letters are stroked vertically and recieve a protective clear coat. This finish allows the natural satin bronze texture to show through. US10 finish

Oxidized / With Dark Edge / Dark Oxidized / With Dark Edge — Oxidized finish uses alloy NAVY G88-8-0-4. Letters are put in a chemical bath, turning them black. The face is then wiped with a stiff sponge to remove some of the black oxidization allowing the yellow bronze to show through. Returns are left black and the entire letter receives a protective clear coat. US10B finish.

Turquoise Patina / Verde Patina — Patina finish uses alloy NAVY G88-8-0-4. First a chemical treatment is used to oxidize them to green. Once dry, the letters are then shipped as is, or clear coated to seal the color. Left uncoated the letters will continue to patina. Note: The color produced on these letters may vary greatly from one letter to the next and will not be uniform.

Polished — Polished finish uses alloy NAVY G88-8-0-4. The letters are hand polished then oven baked after being sprayed with a protective clear-coat. This finish allows the reflective polished bronze to show through. US9 finish. Note: Polished letters will have slightly rounded edges.
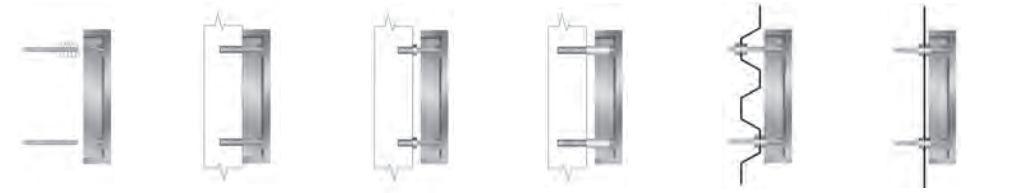
Gemini Standard Cast Styles & Sizes

Style	Sizes
AMERICANA BOLD	(2",3",4",6",8",10",12",15",18")
ARIAL BOLD	(4",6",8",10",12",15")
ARCHITECTURAL	(2",3",4",5",6",8",10",12",14",16",18",24")
AVANT EXTRA BOLD	(4",6",8",10",12",15")
AVANT GARDE MEDIUM	(4",6",8",10",12",15")
BODONI CONDENSED	(4",6",8",10",12",15")
CLARENDON FORTUNE BD.	(3",4",6",8",10",12",15",18")
CLARENDON MEDIUM	(4",6",8",10",12",15",18")
COPPERPLATE	(2",3",4",6",8",10",12")
CRAW CLARENDON CONDENSED	(2",3",4",6",8",10",12",15")
EUROSTYLE BD EXT.	(2",3",4",6",8",10",12",15")
FRIZ QUADRATA	(2",3",4",6",8",10",12",15",18")
FUTURA BOLD	(2",3",4",6",8",10",12",14",16",18")
FUTURA	(2",3",4",5",6",8",10",12",14",16",18")
FUTURA CONDENSED	(4",6",8",10",12",15",18")
GARAMOND BOLD	(2",3",4",5",6",8",10",12",15",18")
Garamond Bold Italic	(4",6",8",10",12",15",18")
GARAMOND REGULAR	(2",3",4",6",8",10",12",15")
Gil Sans Bold	(4",6",8",10",12",15",18")
Goudy Extra Bold	(4",6",8",9",10",12",15",18")
Helvetica Bold	(4",6",8",10",12",15",18",24")
HELVETICA BD. EXT.	(4",6",8",10",12",15",18")
Helvetica Medium Condensed	(4",6",8",10",12",15",18")
Helvetica Italic	(4",6",8",10",12",15",18",20",24")
HELVETICA LIGHT	(2",3",4",6",8",10",12",15",18")
Helvetica	(2",3",4",5",6",8",9",10",12",14",15",16",18",20",24")
KABEL	(2",3",4",6",8",10",12",15")
Lotus Bold	(4",6",8",10",12",15",18")
MICROGRAMMA EXT.	(4",6",8",10",12",15")
OPTIMA SEMI BOLD	(2",3",4",6",8",10",12",15",18")
Optima	(4",6",8",10",12",14",16",18",24")
PALATINO	(2",3",4",6",8",10",12",15",18",24")

Gemini Standard Cast Styles & Sizes

Style	Sizes
PALATINO SEMI BOLD	(2",3",4",6",8",10",12",14",16")
RIBBON	(2",3",4",6",8",10",12",15")
RIBBON DEEP	(4",5",6",8",10",12",15",18")
RIBBON CONDENSED	(3",4",6",8",10",12",15")
ROFFE	(3",4",5",6",8",10",12",14",16")
Roman	(2",3",4",6",8",10",12",15",18",24")
ROMAN ROUND	(4",6",8",10",12")
STANDARD BLOCK	(3",4",6",8",10",12",15",18")
Times Bold	(2",3",4",6",8",9",10",12",15",18",24")
Times Bold Italic	(4",6",8",10",12",15",18")
Times New Roman	(2",3",4",5",6",8",9",10",12",15",16",18",20",24")
TRAJAN BOLD	(4",6",8",10",12",15",18")
TWENTIETH CENTURY	(2",3",4",6",8",10",12",14",16",18",24")
Univers 67	(4",6",8",10",12",15",18")
UNIVERSITY ROMAN BOLD	(4",6",8",10",12",15")

Gemini Metal Letter Mounting Methods

Cast Metal Letters have threaded stud bosses for insertion.
Flat Cut Metal Letters have tapped holes for stud insertion or stud welded.

Flush Mounting — Studs are set in adhesive cement. There is no space between letter and mounting surface.

Projected Jam Nut Mounting — Studs are set in adhesive cement. Stainless steel jamb nuts are inserted between the letter and the mounting surface.

Projected Spacer Mounting — Studs are set in adhesive cement. Pre-cut spacers are inserted between the letter and the mounting surface.

Corrugated Mounting — Studs are set using jam nut on front and back of corrugation.

Flat Metal Wall Mounting — When you have access to rear of wall, washers and nuts are used on both sides of mounting surface.

Gemini Standard Painted Colors

5687 White	4660 Desert Sand	2718 Ivory	0209 Grey	4310 Dove Grey	2025 Black
8090 Safety Green	2037 Lemon Yellow	2000 Yellow	0217 Citrus Yellow	0218 Sundance	0254 Schoolbus
2119 Orange	2662 Red-Orange	0256 Rampart Orange	2793 Red	1875 Brick Red	2240 Maroon
2280 Black Cherry	2410 Magenta	0246 Violet Toner	2287 Purple	2050 Dark Blue	2767 Midnight Blue
2860 Medium Blue	3000 Blue	2648 Light Blue	5425 Marine Reef Blue	3210 Teal	3555 Spring Green
0222 Emerald Green	2108 Light Green	0259 Federal Green	2030 Dark Green	2162 Hunter Green	0400 Brilliant Gold
2756 Metallic Gold	0401 Aztec Gold	0253 Copper	0402 Aztec Copper	2418 Brown	0312 Medium Bronze
0314 Old Copper	3130 Duranodic Bronze	8886 Metallic Silver			

Due to the limitations of the printing process, printed colors can vary from actual colors.