



Section 101440
Interior Signage
PolyPRIME Photopolymer

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Room Identification.
- B. Stairs.
- C. Restroom.
- D. Elevator Lobby.
- E. Informational Signage.
- F. Directory Signage.

1.2 RELATED SECTIONS

- A. Section 10410 - Directories.
- B. Section 10420 - Plaques.

1.3 REFERENCES

- A. ANSI 117.1 – For Buildings and Facilities
- B. ASTM International (ASTM) D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- C. ASTM International (ASTM) E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. ASTM International (ASTM) D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.
- E. Underwriters Laboratories (UL) 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
- F. Underwriters Laboratories (UL) 723 - Standard for Test for Surface Burning Characteristics of Building Materials.
- G. ASTM E2072-04 - Standard Specification for Photoluminescent (Phosphorescent) Safety Marking.
- H. ASTM E2073-02 - Standard Test Method for Photopic Luminance of Photo Luminescent (Phosphorescent) Markings.

1.4 PERFORMANCE REQUIREMENTS

- A. Provide photopolymer signage that conforms to the requirements of all regulatory agencies holding jurisdiction.
- B. Requirements:
 - 1. Comply with all applicable provisions of the 2010 ADA Standard for Accessible Design.
 - 2. Character Proportion: Letters and numbers on signs must have a width- to-height ratio between 3:5 and 1:1 and a stroke width-to-height ratio between 1:5 and 1:10.
 - 3. Color Contrast: Characters and symbols must contrast with their background - either light characters on a dark background or dark characters on a light background.
 - 4. Raised Characters or Symbols: Letters and numbers on signs must be raised 1/32 in (0.8 mm) minimum and be sans serif characters. Raised characters or symbols must be at least 5/8 in (16 mm) high but no higher than 2 in (50 mm). Symbols or pictograms on signs must be raised 1/32 in (0.8 mm) minimum.
 - 5. Symbols of Accessibility: Accessible facilities required to be identified must use the international symbol of accessibility.
 - 6. Braille: Grade II with accompanying text.

C. Fire Performance Characteristics:

1. Provide photopolymer signage with surface burning characteristics that consist of a flame spread of 75 and a smoke development of 120 when tested in accordance to UL 723 (ASTM E 84).
2. Self-Extinguishing: Provide photopolymer signage with a CC1 classification for .060 in thick material when tested in accordance with the procedures in ASTM D 635, Standard Test Method for Rate of Burning and/or Extent and Time of Burning Plastics in a Horizontal Position.
3. Vertical Burn: Provide photopolymer material that is classified as 94V-2 for material .118 in thick or greater and 94HB for material .118 in thick or less when tested in accordance with UL 94, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
4. Self-Ignition Temperature: Provide photopolymer material that has a self- ignition temperature of 800 o F (427 o C) when tested in accordance with ASTM D 1929.

1.5 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Detail drawings showing sizes, lettering and graphics, construction details of each type of sign and mounting details with appropriate fasteners for specific project substrates.

D. Selection Samples: For each finish product specified, two sets of color sheets representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each sign type and color specified, two samples, minimum size 6 in (150 mm) square, representing actual product, color and patterns.

F. Manufacturer's Installation Instructions: Printed installation instructions for each signage system.

G. Message List: Signage report indicating signage location, text and sign type.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in unopened factory packaging.

B. Inspect materials at delivery to verify there are no defects or damage.

C. Store products in manufacturer's original packaging until ready for installation in climate controlled location away from direct sunlight.

D. Store and dispose of solvent-based materials, and materials used with solvent- based materials in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

A. Install products in an interior climate controlled environment.

B. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Acceptable Manufacturer: Your Sign Company, LLC, 1212 N. Tanchua St., Corpus Christi, TX 78401

Email: info@yoursigncompany.net; Web: www.yoursigncompany.net

2.2 SIGNAGE – GENERAL

- A. It is the intent of these specifications to establish a sign standard for the Owner including but not limited to, wall-mounted directional signs, primary room identification, restrooms, conference rooms and all code compliant Braille signage.
- B. Comply with all applicable provisions of the 2010 ADA Standard for Accessible Design codes that apply to the State and Local jurisdiction of the project.
- C. If required text and graphics are not indicated in specification or on drawings, obtain Owner's instructions as to text and graphics prior to preparation of shop drawings.
- D. Typography: See Drawings. Copy shall be a clean and accurate reproduction of typeface(s) specified. Upper and lower case and all caps as indicated in Sign Type drawings and Signage Schedule. Letter spacing to be set by manufacturer.
- E. Arrows, symbols and pictograms will be provided in style, sizes, colors and spacing as indicated in drawings for each sign system.
- F. Braille: Grade 2
- G. Design
 1. Text/Graphics Placement: As indicated on contract drawings.
 2. Font: Helvetica Med. All Caps.

2.3 MATERIALS

- A. Panel Material: PolyPRIME Series 1 Photopolymer
 1. Composition: 0.032 inch (0.8 mm) thick moisture resistant, non-glare interior nylon photopolymer on ultraviolet resistant clear PETG sign base, single piece construction. Laminated photopolymers, added-on characters, and engraved characters are not acceptable.
 2. Sustainable Certification: Minimum 40 percent pre-consumer recycled content.
 3. Type and Color: To be selected from manufacturer's full color range by Architect.
 4. Size:
 5. Surface burning characteristics: Flame spread/smoke developed rating less than 75/120, tested to ~STM E 84 and UL 723.
 6. Rate of burning: Tested to ~STM D 635 at nominal 0.060 inch (1.5 mm) thickness with resulting Classification CC1.
 7. Vertical burning: Tested to UL 94, classified as 94V-2 in thickness of 0.118 inch (3.0 mm) or greater and 94HB in thicknesses less than 0.118 inch (3.0 mm).
 8. Self-ignition temperature: 800 degrees F (427 degrees C), tested to ASTM D 1929.
- B. Panel Material: PolyPRIME Aluminum Photopolymer
 1. Composition: 0.032 inch (0.8 mm) thick moisture resistant interior nylon photopolymer bonded to 0.017 inch (0.4 mm) thick brushed aluminum alloy base.
 2. Base thickness: 0.017 inch (0.4 mm) thick brushed aluminum alloy base.
 3. Type and Color: To be selected from manufacturer's full color range by Architect.
 4. Size:
- C. Panel Material: PolyPRIME 3form Photopolymer
 1. Composition: 0.032 inch (0.8 mm) thick moisture resistant, non-glare interior nylon photopolymer on 3form Varia Ecoresin PETG sign base, single piece construction. Laminated photopolymers, added-on characters, and engraved characters are not acceptable.
 2. Base thickness: Determined by the 3form Varia Ecoresin pattern. Gauge not to exceed 0.0375 inch (9.5 mm)
 3. Type and Color: To be selected from the 3form Varaiia ecoresin line of substrates by Architect. At least one side of the Varia substrate chosen must be flat.
 4. Size: .

D. Panel Material: PolyPRIME Permaglow

1. Composition: 0.032 inch (0.8 mm) thick moisture resistant interior nylon photopolymer bonded to 0.047 inch 150/22 photoluminescent rigid PVC.
2. Base thickness: 0.047 inch thick photoluminescent rigid PVC
3. Type and Color: To be selected from manufacturer's full color range by Architect.
4. Size: _____

PART 2 EXECUTION

2.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

2.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

2.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

2.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION