

PART I – GENERAL

1) DESCRIPTION

- a) This section specifies interior identification signage

2) SUBMITTALS

- a) Samples: Submit one full size sample sign of the type, style and color specified including method of attachment. If approved, the sample will become a part of the job.
- b) Manufacturer's Literature: Manufacturer's printed specifications, mounting details, installation and maintenance drawings.
- c) Shop Drawings: Scaled for manufacturer and fabrication of sign types. Identify materials, size, typography, artwork, finishes, mounting and accessory items.

3) DELIVERY AND STORAGE

- a) Package to prevent damage or deterioration during shipment, handling, storage and installation. Maintain protective coverings in place and in good repair until removal is necessary. Store products in dry condition inside enclosed facilities.
- b) Deliver signs only when mounting surfaces are ready for installation work to proceed.

4) EXTRA MATERIALS

- a) Expedited Sign Maintenance Program: Coupon books for redemption of expedited replacement Inserts and additional signage.

5) REFERENCES

- a) Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
 - American National Standards Institute (ANSI)
 - American Society for Testing & Materials (ASTM)
 - Federal Specifications
 - Uniform Sign Code

6) WARRANTY

- a) Provide manufacturer's warranty against defect in materials. Warranty shall provide material and labor to repair or replace defective materials at the manufacturer's discretion. Damage caused by physical or chemical abuse or damage from excessive heat will not be warranted. Removal and reinstallation of existing signage is not warranted.

PART 2 – PRODUCTS

I) GENERAL

- a) Sign and graphic components are to be by a single manufacturer, including necessary mounting options, fittings and fastenings.

2) SIGN STANDARDS

a) SIGN TYPE 2/90 Sign Systems SafeCare Signage

- i) Mounting Option: A - Adhesive Mount, SP - Mechanically fastened via tamper resistant pin 'in' head screws
- ii) Sign Color: **SPEC WRITER NOTE: see color catalog for standard offering**
- iii) Finishes are to meet current Federal ADA and State requirements.

b) TYPOGRAPHY

- i) Standard Copy Options:
 - (1) ADA copy option is ADA SSC
 - (2) Non-ADA copy options are Direct Print and Laser Print for window inserts with paper.
 - (3) Other Copy options available. **SPEC WRITER NOTE: List Copy option if different from standard. i.e. Vinyl (V)**
- ii) Copy Color: **SPEC WRITER NOTE: List Copy Color. i.e. White (708)**
- iii) Copy Style: **SPEC WRITER NOTE: List Copy Style. i.e. Arial (ARL)**
- iv) Copy Size: **SPEC WRITER NOTE: List Copy Size. i.e. 5/8**
- v) Copy Position: **SPEC WRITER NOTE: List Copy Position. i.e. Center (C)**
- vi) Copy Case: Standard Upper and Lower Case unless specified All Caps or as typed indicated in the Sign Message Schedule. i.e. All Caps (AC)
Note: All ADA options are standard All Caps to be compliant.
- vii) Copy shall be a true, clean accurate reproduction of typeface(s) specified.
- viii) Letter spacing and in-between line spacing shall be set by manufacturer.
- ix) Arrows, symbols and logo art: To be provided in style, sizes, colors and spacing as shown in drawings.
- x) Braille: Grade 2

- xi) Translations: Grade 2 Braille copy, as noted in Sign Message Schedule, is responsibility of the sign manufacturer. Any second language text, as noted in Sign Message Schedule, is responsibility of the customer.

3) PRODUCT SPECIFICATIONS

General:

- Provide products produced by 2/90 Sign Systems, 5350 Corporate Grove Blvd SE, Grand Rapids, MI 49512, phone 800.777.4310, fax 616.656.4300.
- Sign Type/Part No.: *SPEC WRITER NOTE: List the Part Number and Style of all signs required. i.e. SafeCare Signage Sign Type SC.04*

a) 2/90 Sign Systems SafeCare Signage

- Comprised of three primary components: polycarbonate back plate, SSADA thermoformed copy, & polycarbonate front plate.
- Is a lightweight sign with no hard edges or movable parts (* slider is designed to move back and forth displaying availability message).
- Is available with Laser-Print Paper Insert Option to allow for changes of graphics installed on the sign without changing the sign in its entirety.
- Mechanically fastened with tamper resistant pin 'in' head Torx screws.

i) Options

- I. SSADA thermoformed copy - High Performance Cast PVC vinyl bonded with a profile film reverse cut by computer, and applied subsurface to clear, vacuum thermoformable PETG in a Heat Vacuum Applicator (HVA) to form around the three dimensional graphics, afterwards the Braille is then punched. SSADA is back sprayed with acrylic lacquer. Taped to polycarbonate back plate with Tesa Tape and encapsulated by polycarbonate front plate
- II. SSADA thermoformed copy with Laser-Print Removable Paper Insert – Front Plates of signs utilizing 2/90 Paper Insert are masked prior to painting to show a viewable area. Pocketed area is created by .060 ABS spacer above and below the viewable area with adhesive on both sides to join the SSADA to the .060 support Insert which has also been back sprayed with acrylic lacquer with flex additive. SSADA thermoformed copy consists of High Performance Cast PVC vinyl bonded with a profile film reverse cut by computer, and applied subsurface to clear, vacuum thermoformable PETG in a Heat Vacuum Applicator (HVA) to form around the three dimensional graphics, afterwards the Braille is then punched. SSADA is back sprayed with acrylic lacquer and laminated to .060" support insert with Tesa Tape and encapsulated by polycarbonate front and back plate.

b) GRAPHIC PROCESS

- i) SSADA – High Performance Cast PVC vinyl bonded with a profile film reverse cut by computer, and applied subsurface to clear, vacuum thermoformable PETG and processed thru a Heat Vacuum Applicator (HVA) to form around the three dimensional graphics, afterwards the Braille is then punched. SSADA is back sprayed with acrylic lacquer and adhered to polycarbonate back plate or spacer.
- ii) Laser Print Copy – Computer generated graphics laser printed on die-cut paper Insert.
- iii) Direct Print Copy – VOC free, ultra-violet cured inks digitally applied directly to the subsurface of SSADA.

c) FABRICATION REQUIREMENTS

- a. Design components allow for expansion and contraction for a minimum material temperature range of 56 degrees C (100 degrees F), without causing buckling, excessive opening of joints or over stressing of adhesives and fasteners.
- b. Form work to required shapes and sizes, with true curves, lines and angles. Provide necessary rebates, lugs and brackets for assembly of units.
- c. Contact surfaces of connected members must be true. Assembled so joints will be tight and practically unnoticeable, without use of filling compound.
- d. Signs shall have fine, even texture and be flat and sound. Lines and miters sharp, arises unbroken, profiles accurate and ornament true to pattern. Plane surfaces should be smooth, flat and without oil-canning, free of rack and twist. Maximum variation from plane of surface plus or minus .032". Restore texture to filled or cut areas.
- e. Conceal fastenings where possible. Exposed ends and edges mill smooth, with corners slightly rounded.
- f. All painted surfaces properly primed. Finish coating of paint to have complete coverage with no light or thin applications allowing substrate or primer to show. Parts are checked for approval against the color match master chip. Finished surface smooth, free of scratches, gouges, drips, bubbles, thickness variations, foreign matter and other imperfections.
- g. Movable parts (paper inserts and sliders), including hardware, are to be cleaned and adjusted to operate as designed without binding or deformation of members. Doors and covers centered in opening of frame. All contact surfaces fit tight and even without forcing or warping components.
- h. Shop fabricates so far as practical and pre-assemble items to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for re-assembly and coordinated installation.

PART 3 – EXECUTION

I) INSTALLATION

- a) Protect products against damage during field handling and installation. Protect adjacent existing and newly placed construction as necessary to prevent damage during installation.
- b) Mount signs in proper alignment, level and plumb according to the sign location plan and the dimensions given on elevation and sign location drawings. Where otherwise not dimensioned, signs shall be installed where best suited to provide a consistent appearance throughout the project. When exact position, angle, height or location is in doubt, contact Architect for clarification.
- c) At completion of sign installation, clean exposed sign surfaces. Clean and repair any adjoining surfaces that became soiled or damaged as a result of installation of signs.
- d) Locate signs as shown on the Sign Location Plan.
- e) At completion of installation, turn over any additional stock of signs and sign components listed in the Sign Message Schedule.

CLEANING GUIDELINES FOR 2/90 SIGNAGE PRODUCTS

For routine maintenance, use a mild cleanser (such as hand soap or dish detergent) and lukewarm water. Wipe with a sponge or soft cloth. After washing and rinsing, blot dry with a soft cloth or chamois.

Before using any other cleaning solution, always test on an inconspicuous area of the sign. Apply the solution to a cloth rather than spraying directly on the sign. Sanitize all surfaces with the damp cloth and blot dry with a dry cloth or allow to air dry.

Solvent based cleaners can degrade finishes over time. Use the minimum ratio of solvent to water necessary for effective sanitation. Additional caution should be exercised especially on painted surfaces.

For special maintenance, call Technical Services Department.