

DIVISION 10 - SPECIALTIES

SECTION 10425

SIGNS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Only those panel signs for room identification & directional signs required by ADAAG Guidelines and posted Occupancy Load signs.
- B. All signs shall meet the requirements of the ADAAG for size of lettering and accompanying Braille designation.

1.03 SUBMITTALS

- A. Product Data: Provide data for each type of sign specified, including details of construction relative to materials, dimensions of individual components, profiles, and finishes.
- B. Shop Drawings: Provide dimensioned elevations for each type of sign required, include large scale sections of typical members and other components. Show anchors, grounds, reinforcement and layout, and indicate finishes.
 - 1. Provide message list for each sign required, including large scale details of wording and lettering.
 - 2. For signs supported by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
- C. Samples: Provide the following samples of each sign component for initial selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated.
 - 1. Samples for initial selection of color, pattern and texture:
 - a. Cast Acrylic Sheet and Plastic Laminate: Manufacturer's color charts consisting of actual sections of material including the full range of colors available for each material required.

1.04 QUALITY ASSURANCE

- A. Single Source Requirement: For each separate sign type required, obtain signs from one source of a single manufacturer.

1.05 DELIVERY, HANDLING & STORAGE

- A. Deliver signs to site in unopened container or packaging submitted by manufacturer. Store in controlled conditioned space free from extreme temperature differences. Do not allow heavy objects to be placed on material that may cause it to become smashed or damaged prior to installation. Keep material clean and free of dust and dirt.

1.06 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show record measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

1.07 ADAAG REQUIREMENTS

- A. Signage shall comply with all requirements of the United States Access Board's Americans With Disabilities Act Accessibility Guidelines for Buildings and Facilities, Transportation Facilities, and Transportation Vehicles, September 1994 for the following:
 - 1. General Terminology, Section 3.4 (See Signage)
 - 2. Accessible Elements and Spaces: Scope And Technical Requirements: Sections 4.1.3 Accessible Buildings: New Construction, Item (16.a.b.), Building Signage; 4.1.6 Accessible Buildings: Alterations and 4.1.7 Accessible Buildings: Historic Preservation; and Section 4.30 Signage (4.30, 4.30.1, 4.30.2, 4.30.3, 4.30.4, 4.30.5, 4.30.6, 4.30.7 and 4.30.8; Appendix Section A4.30 (Signage) A4.30.1, A4.30.2, A4.30.3, A4.30.4, A4.30.5, A4.30.6, A4.30.7 and A4.30.8.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Available Manufacturers:
 - 1. Andco industries Corp.
 - 2. APCO Graphics, Inc.
 - 3. ASI Sign Systems, Inc.
 - 4. Best Manufacturing Company
- B. As a standard of quality panel signs shall be to ASI Systems as follows:
 - 1. WS Series Unframed stand alone wall or panel mounted surfaces for ADA-Ready tactile and Braille text..

2.02 MATERIALS

- A. Cast Acrylic Sheet: Provide cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet in sizes and thickness indicated, with a minimum flexural strength of 16,000 psi when tested according to ASTM D 790, with a minimum allowable continuous service temperature of 176 deg F (80 deg C), and of the following general types:
 - 1. Transparent Sheet: Where sheet material is indicted as "Clear," provide colorless sheet in matte finish with light transmittance of 92 percent, when tested according to the requirements of ASTM D 1003.
 - 2. White Translucent Sheet: Where sheet material is indicated as "White," provide white translucent sheet of density required to produce uniform brightness and minimum halation effects.
 - 3. Opaque sheet: Where sheet material is indicated as "opaque," provide colored opaque acrylic sheet in colors and finishes as selected from the manufacturer's standards.
- B. Vinyl Film: Provide opaque non-reflective vinyl film, 0.0035-inch maximum thickness, with pressure-sensitive adhesive backing, suitable for exterior as well as interior applications.
- C. ABS Plastic: provide high impact thermoplastic composed of copolymers of acrylonitrile, butadiene, and styrene.
- D. Fasteners: use concealed fasteners fabricated from metals that are not corrosive to the sign material and mounting surface.
- E. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for exterior installation and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

- F. Colored Coatings for Acrylic Plastic Sheet: Use colored coatings, including inks and paints for copy and background colors, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are nonfading for the application intended.

2.03 PANEL SIGNS

- A. Panel signs: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
 - 1. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally.
- B. Brackets: Fabricate brackets and fittings for bracket-mounted signs from extruded aluminum to suit sign panel construction and mounting conditions indicated. Factory-paint brackets in a color matching the background color of the sign pane.
- C. Graphic Content and Style: Provide sign copy selected by Architect from manufacturer's broad range of standard size, style, spacing, content, position, material, finishes, and colors of letters, numbers and other graphic devices.
- D. Subsurface Copy: Apply copy to the back face of clear acrylic sheet forming the panel face by process indicated to produce precisely formed opaque images free from rough edges.
 - 1. Use reverse silk-screen process to print copy; overspray the copy with an opaque background color coating.
 - 2. Use Dupont Chromalin heat -and pressure-laminated photopolymer film system to form copy and background color.
 - 3. The manufacturer has the option of selecting either process indicated above.

PART 3 EXECUTION

3.01 INSTALLATION

- A. General: Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions and in compliance with the 1994 ADAAG Guidelines for Buildings and Facilities.
 - 1. Install signs level, plumb, and at the height indicated or required, with sign surfaces free from distortion or other defects in appearance.
 - 2. All sign locations are to verified with Architect and Owner prior to installation.
- B. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using the methods indicated below:
 - 1. Vinyl-Tape Mounting: Use double-sided foam tape to mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.
- C. Bracket-Mounted Units: Provide the manufacturer's standard brackets, fittings, and hardware as appropriate for mounting signs that project at right angles from walls and ceilings. Attach brackets and fittings securely to walls or ceilings with concealed fasteners and anchoring devices to comply with manufacturer's directions.
- D. Cast Metal Plaques: Mount plaques using the standard method recommended by the manufacturer for the type of wall surface indicated.
 - 1. Concealed Mounting: Mount the plaques by inserting threaded studs into tapped lugs on the back of the plaque. Set in predrilled holes filled with quick-setting cement.

3.02 CLEANING AND PROTECTION

- A. At completion of the installation, clean surfaces in accordance with the manufacturer's instructions.

3.03 SCHEDULE

- A. Provide one 4" x 8" sign for each exterior door opening as required by ADAAG Guidelines only (See door schedule for quantity). Comply with item 1.07 this Section.
 - 1. Each door/room sign with symbols and Braille (required by ADAAG) shall be 8" x 8" and contain three lines of text including:
 - a. Room number, no more than 4 numbers. (Owner's option to eliminate this requirement).
 - b. Room name as listed in room finish schedule, or as modified by Owner within the same character amounts or less.
 - c. Additional message line, no more than 20 characters.
 - 2. Each permanent rooms must have raised lettering and Braille and shall be 4" x 8" or 6" x 6" determined by the wording on the sign.
 - 3. Door signs leading to handicapped facilities shall contain the international handicapped pictogram symbol as required by ADAAG Guidelines and shall be a minimum of 8" x 8".
 - 4. All doors exiting to the exterior shall have a 4" x 8" Braille "EXIT" sign at or near the openings. Approximately 4 are required.
- B. Signs for Rooms which need letters and numbers.
 - 1. Schedule:
 - a. All Permanent Rooms using the numbers listed on the plans for room numbers will need signs with numbers only. Room numbers are to be supplied to the contractor by the Architect and Owner at the time of submittal.
 - b. The following signs require text:
 - 1. Multi-Purpose Meeting Room
 - 2. Table & Chairs
 - 3. Mechanical
 - 4. Mechanical
 - 5. Electrical & Data
 - 6. Janitor
 - 7. Staff Toilet
 - 8. Closet
 - 9. Staff Breakroom
 - 10. Women (Handicapped accessible signage)
 - 11. Men (Handicapped accessible signage)

END OF SECTION - 10425