

GUIDE SPECIFICATION

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SECTION 10440
INTAC™ ECO – Applied Tactile Lettering and Raster™ Braille on Eco-Friendly Substrates

Welcome to ASI Guide Specification System! ASI has prepared this guide specification in printed and electronic media, as an aid to specifiers in preparing written construction documents for ADA compliant signs for interior use, fabricated using a machined and applied raised character and Braille process. Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. They should be removed before the section is printed for use.

This guide specification is based on the Construction Specifications Institute (CSI), Section Format standards. References to section names and numbers are based on MasterFormat 95. For specification assistance with specific product applications, please contact the offices above. Detailed technical information, including available sizes and materials, may be obtained from ASI corporate website at www.asisignage.com

ASI reserves the right to modify these guide specifications at any time. Updates to this guide specification will be posted as they occur. ASI makes no expressed or implied warranties regarding content, errors, or omissions in the information presented. Specifications modified or rewritten in excess of supplier's standard processes, products, and procedures may void warranties and related remedies. Contact the offices above regarding modifications and addition of new text.

1 PART 1- GENERAL

1.1 SUMMARY

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Section Includes:
 - 1. Unframed interior signs with surface applied tactile lettering and raster Braille on any of the following material options: agri-based plant bio-polymer material, Class B (ASTM E84) paper and wood composite material, or Class A (ASTM E84) wood-based material consisting of 70% virgin wood fiber produced from renewable sources for applications.

ASI has a complete line of signage products for the entire facility, including interior and exterior signs, dimensional letters, and directories. Many interior signs are updateable by the facility manager. Edit the Related Sections paragraph below to suit project requirements; delete sections that will not be used.

C. Related Sections:		
Section 10410	Non-Illuminated Interior Directories	Series 440
Section 10410	Non-Illuminated Interior Directories	Series 470
Section 10410	Non-Illuminated Interior Directories	Series 490
Section 10410	Illuminated Interior Directories	Series 530
Section 10410	Illuminated Interior Directories	Series 560
Section 10410	Illuminated Interior Directories	Series 570
Section 10420	Cast Plaques	Cast Plaques
Section 10440	Interior Signage - Photochemically-Etched ADA Signs	SignEtch I
Section 10440	Interior Signage - Photochemically-Etched Plaque Signs	SignEtch II
Section 10430	Dimensional Letters - Fabricated Metal	LF Series
Section 10430	Dimensional Letters - Cut Metal	LPS Series
Section 10430	Dimensional Letters - Cast Metal	LC Series
Section 10430	Dimensional Letters - Metal-Laminate Acrylic	LPL Series
Section 10430	Dimensional Letters - Molded Plastic	LM Series
Section 10430	Dimensional Letters - Precision Cut Acrylic	LPP Series
Section 10440	Dimensional Letters - Cut Vinyl	LTV Series
Section 10430	Specialty Signs – Simulated stone materials	Simulated Materials
Section 10430	Specialty Signs –hardened enamel or porcelain materials	Porcelande™
Section 10430	Exterior Fiberglass Signs - 4 Sided Non Illuminated Monolith	Series 940S
Section 10430	Exterior Fiberglass Signs - 4 Sided Non Illuminated Pylon	Series 840R
Section 10430	Exterior Fiberglass Signs - 3 Sided Non Illuminated Monolith	Series 930S
Section 10430	Exterior Fiberglass Signs - 3 Sided Non Illuminated Pylon	Series 830R
Section 10430	Exterior Fiberglass Signs - 2 Sided Non-Illuminated Monolith	Series 920
Section 10430	Exterior Fiberglass Signs - 2 Sided Non Illuminated Pylon	Series 820
Section 10430	Exterior Fiberglass Signs - 2 Sided Non Illuminated Monolith	Series 920CF
Section 10430	Exterior Fiberglass Signs - 2 Sided Non Illuminated Pylon - Curved Face	Series 820CF
Section 10430	Exterior Fiberglass Signs - 4 Sided Illuminated Monolith	Series 1140S
Section 10430	Exterior Fiberglass Signs - 4 Sided Illuminated Pylon -	Series 1040R
Section 10430	Exterior Fiberglass Signs - 3 Sided Illuminated Monolith -	Series 1130S
Section 10430	Exterior Fiberglass Signs - 3 Sided Illuminated Pylon -	Series 1030R
Section 10430	Exterior Fiberglass Signs - 2 Sided Illuminated Monolith -	Series 1120
Section 10430	Exterior Fiberglass Signs - 2 Sided Illuminated Pylon -	Series 1020
Section 10430	Exterior Fiberglass Signs - 2 Sided Illuminated Pylon - Curved Face	Series 1020CF
Section 10430	Exterior Fiberglass Signs - Non-Illuminated Post and Panel	Series 820
Section 10430	Exterior Fiberglass Signs - Illuminated Post and Panel	Series 1020
Section 10430	Exterior Fiberglass Signs - Illuminated Wall Mounted	Series 1014
Section 10430	Exterior Fiberglass Signs - Non-Illuminated Wall Mounted	Series 814/825
Section 10430	Exterior Aluminum Signs - Post and Panel	2100 Series
Section 10430	Exterior Aluminum Signs - Post and Panel	2300 Series
Section 10430	Exterior Aluminum Signs - Post and Panel	2400 Series
Section 10430	Exterior Aluminum Signs - Post and Panel	2500 Series
Section 10430	Exterior Aluminum Signs - Curved Face	Pacific Exterior
Section 10430	Exterior Aluminum Signs - Interchangeable Components	Compass
Section 10430	Exterior Aluminum Signs - Flat Face	Messenger Exterior
Section 10440	Interior Unframed Signs	Series SP
Section 10440	Interior 4 Sided Framed Signs	Series 320/390
Section 10440	Interior Unframed Signs - Plastic Laminate or Acrylic with Raster Braille	InTac
Section 10440	Interior Unframed Sign – Photopolymer Bonded to Acrylic	InTouch
Section 10440	Interior Unframed Signs - Photopolymer Bonded to Plastic Laminate/PETG	Intouch 2
Section 10440	Interior Door Signage - Thermoformed Resin - InForm	InForm
Section 10440	Interior Unframed Signs - Embossed (EmBoss)	EmBoss
Section 10420	Interior Updateable Signs	WS Series
Section 10440	Interior Updateable Signs	Panorama
Section 10440	Interior Updateable Signs	Inhouse™ Classic Series 380
Section 10440	Interior Updateable Signs	Sail
Section 10440	Interior Room Control Signs	SL Series

Section 10440	Interior Directional Signs	PMA Series
Section 10440	Interior Overhead Signs	PAP Series
Section 14440	Interior Desk Signs	200 Series
Section 10440	Interior Modular Interchangeable Signs - Interior 20	Interior 20
Section 10440	Interior Modular Interchangeable Signs - Infinity	Infinity
Section 10440	Interior Modular Component Signs - Flat Face	Messenger Interior
Section 10440	Interior Modular Interchangeable Signs - Curved Face	Pacific Interior
Section 10440	Interior Signs Digital Signage Systems	Helix
Section 10440	Interior Modular Interchangeable Signs - Radiance	Radiance
Section 10440	Interior Unframed Signs - ECR Photopolymer-Based ADA Signage	Terra
Section 10440	Interior Aluminum Curved Face Extrusion Sign with Changeable Insert	Horizon
Section 10440	Interior Aluminum Flat Face Extrusion Sign with Changeable Insert	Venus

If specific sign quantities, sizes, layouts, and graphic processes are not scheduled, an allowance may be utilized to set aside a monetary amount sufficient for purchase, delivery, and installation of signage.

- D. [Allowances: Work of this section is affected by allowances. Refer to Division 1 for allowance amounts and requirements.]

1.2 QUALITY ASSURANCE

Include quality assurance requirements below which are consistent with the size and scope of the project and extent of work of this section. Only request qualification statements you intend to review, and which are necessary to establish qualifications of the product, manufacturer, or installer.

- A. Single Source Responsibility: For each separate type of sign required, obtain signs from one source from a single manufacturer.
- B. Design Criteria: The Drawings indicate size, profiles, dimensional requirements and graphics layout of signs and are based on the specific type and model indicated. Signs by other manufacturers may be considered provided that deviations in dimensions and profiles are minor and do not change the design concept as judged by the designer. The burden of proof of equality is on the proposer.

Include submittal requirements below which are consistent with the scope of the project and extent of work of this section. Only request submittals, which are necessary for review of design intent.

1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data: Include Manufacturer’s construction details relative to materials, dimensions of individual components, profiles, and finishes for each type of sign required.
- C. Color Chart: Manufacturer’s standard chart.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components correctly packed to prevent damage.

- B. Store in secure areas, out of weather and protected from work of other trades.
- C. Handle products in accordance with Manufacturer's instructions.

1.5 WARRANTY

- A. Project Warranty: Comply with requirements of Division 1.
- B. Provide Manufacturer's standard one year limited warranty covering manufacturing defects.
 Manufacturer's Warranty: Submit manufacturer's standard warranty document executed by authorized company official.
 - 1. Warranty Period: one (1) year from product ship date.

2 PRODUCTS

 In 2.1A1 below, modify to reflect name, address, and phone/fax of local ASI Affiliate who is supplying to product or system to the project.

2.1 SIGNAGE SYSTEMS

- A. Acceptable Manufacturers:
 - 1. ASI, 8181 Jetstar Drive, Suite 100, Irving, Texas 75063; (214) 352- 9140 telephone; (214) 352-9741 facsimile; (800) ASI-SPEC [274-7732]
 - 2. Substitutions: Submit in accordance with Section 01600.
- B. Acceptable Product: InTac™ Eco ADA-Ready™ Sign System with requirements indicated for materials, thickness, finish colors, designs, shapes, sizes and details.

2.2 ACCEPTABLE SIGN MATERIALS

- A. Sign Face: Agri-based plant bio-polymer product consisting of a plant material with starches removed, processed into pellets that are molded into the final sign substrate material.
 Thickness Options: [0.03125" / 0.79375 mm] [0.0625" / 1.5875 mm]
 Certifications:
 - 1) Material is certified by BPI and complies with ASTM D6400 as a compostable material, when placed in an aerated and managed landfill.
 Color: White.
 Finish: Matte, non-glare; ADA compliant.
 Available Sign Finishing Processes:
 - 1) Acrylic Polyurethane Paint; low-VOC (<50 g/L).
 - 2) UV digital imaging.
 - 3) UV digital textures.
- B. Sign Face: Class A (ASTM E84), wood-based product consisting of 70% virgin wood fiber produced from renewable sources, and is recyclable/reusable.
 Thickness Options: [0.25" / 0.635 mm]
 Certifications:
 - 1) GEI GREENGUARD Indoor Air Quality® Certified.
 - 2) GREENGUARD Children & SchoolsSM Certified

Colors: [Alabaster] [Bittersweet] [Cloudy Skies] [Conifer] [Dusk] [Mazarine] [Oatmeal] [Obsidian] [Oyster] [Royal Waves] [Sandstone] [Sanguine].

Finish: Matte, non-glare; ADA compliant; graffiti-resistant.
Material Edges: Black (standard). Edges can be painted using (Matthews Paint Co.); low-VOC (<50 g/L) to match sign face.

- C. Class B (ASTM E84), wood and paper product that is recyclable/reusable. Golden Rod material is comprised of 100% recycled paper; Cinnamon material is comprised of 50% corrugated cardboard.
Thickness Options: [0.125 inch (3.175mm)] [0.250 inch (6.35mm)].
Certifications:
1) GEI GREENGUARD Indoor Air Quality® Certified
2) GEI GREENGUARD Children & SchoolsSM Certified.
3) FSC certified.
Colors: [Auburn] [Brick] [Cinnamon] [Cocoa] [Evergreen] [Golden Fields] [Golden Rod] [Midnight Sea] [Onyx].
Finish: Matte, non-glare; ADA compliant.
Available Sign Finishing Processes:
1) Acrylic Polyurethane Paint; low-VOC (<50 g/L).
2) UV digital imaging.
3) UV digital textures.
- D. Applied Lettering and/or Numerals: Made from agri-based plant bio-polymer product consisting of a plant material with starches removed.
Thickness: [0.03125" / 0.79375 mm]
Copy Color: [White] [Painted].
1) Painted Color: [Custom color] [Color selected from Pantone Matching System (PMS)].
- E. Braille Application: RasterTM balls pressed into material face [Clear] [White] [Black] [Stainless steel] [Brass]

2.3 FABRICATION - GENERAL

- A. Manufacturer's standard InTacTM Eco Tactile Plaque construction. To meet requirements indicated for materials, thickness, finish colors designs, shapes, sizes and details of construction. Installed dimensional tolerances to be plus/minus 1/16 inch.
- B. Surface Graphics: Raised graphics to be applied to sign face by Manufacturer's standard processes. Face of raised graphics to be raised 1/32 inch min. from plaque first surface. Precisely formed, uniformly opaque graphics to comply with current ADAAG guidelines and the requirements indicated for size, style, spacing, content, position and colors.
- C. Braille: Clear RasterTM balls to be drilled and tapped using ASI's standard InTacTM Eco procedure and InTacTM Eco Braille guide.
- D. Preassemble signs in the shop to the greatest extent possible to minimize field assembly. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in a location not exposed to view after final assembly.
- E. Conceal fasteners if possible; otherwise, locate fasteners to appear inconspicuous.
- F. Form panels to required size and shape. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

- G Coordinate dimensions and attachment methods to produce message panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.

2.4 FINISHES

- A. Colors: As selected from the Manufacturer's standard color chart.
- B. Surface Texture: matte, per ASI InTac™ Eco™ standards.

In 2.5 below, select from one or more of the mounting options available.

2.5 INSTALLATION METHOD

- A. [System VT, vinyl tape.]
- B. [System SA, silicone adhesive.]
- C. [System MH, mounting holes for mechanical fasteners.]
- D. [System CSMH, counter-sunk mechanical fasteners.]
- E. [System PM, partition mounted, compatible with systems furniture panels.]
- F. [Injection-Molded or Aluminum Frames]
- G. [Venus, Horizon extruded aluminum sign systems for 1/16" agri-based plant bio-polymer]
- H. [Infinity™ chassis or wall rail mounted with PresTab™ for 1/8" wood and paper product that is recyclable/reusable]

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.
 - 1. Verify that mounting locations for each sign exist which comply with ADAAG, Section 4.30.6.
- B. Scheduling of installation by Owner or it's representative implies that substrate and conditions are prepared and ready for product installation. Proceeding with installation implies installer's acceptance of substrate and conditions.

3.02 INSTALLATION

- A. Install product in accordance with supplier's instructions.
- B. Install product in locations indicated using mounting methods recommended by sign manufacturer and free from distortion, warp, or defect adversely affecting appearance.
- C. Install product level, plumb, and at heights indicated.
- D. Install product at heights to conform to Americans with Disabilities Act Accessibility Guidelines (ADAAG) and applicable local amendments and regulations.
- E. Install signs within the following tolerances and in accordance with manufacturer's recommendations:
 - 1. Interior Signs: Within 1/4 inch vertically and horizontally of intended location.

3.03 CLEANING, PROTECTION, AND REPAIR

- A. Repair scratches and other damage which might have occurred during installation. Replace components where repairs were made but are still visible to the unaided eye from a distance of 5 feet.
- B. Remove temporary coverings and protection to adjacent work areas. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project in accordance with provisions in Division 1.

3.03 SIGNAGE SCHEDULE

- A. Schedule: Refer to signage schedule and Drawings for sizes, locations, and layout of signage types, sign text copy, and graphics.

END OF SECTION