

SPECIFICATION GUIDE

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SECTION 10442 INTERIOR SIGNS - Aluminum Extrusion Sign with Changeable Insert - HORIZON SERIES

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 interior signage using arched face construction.

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, may be obtained from ASI corporate website at www.asisignage.com

ASI Sign Systems, Inc. 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 GENERAL

1.1 SUMMARY

- A. Related Documents: Provisions established within the General and Supplementary Conditions of the Contract, Division 1 - General Requirements and the Drawings are collectively applicable to this Section.

B. Section Includes:

- 1. Interior sign of aluminum, Photopolymer, acrylic, and ABS plastic construction with arched face.

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.

A. Related Sections:

Table with 3 columns: Section Number, Description, and Series Name. Includes entries for Section 10410 (Non-Illuminated Interior Directories), Section 10430 (Dimensional Letters - Fabricated Metal), and Section 10440 (Interior Unframed Signs).

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 – Electronic Displays	Ariadne
Section 10440	Interior Modular Interchangeable Signs - Radiance	Radiance
Section 10440	Interior Unframed Signs - ECR Photopolymer-Based ADA Signage	Terra
Section 10440	Interior Aluminum Extrusion Sign with Changeable Insert, Curved Face	Horizon
Section 10440	Interior Aluminum Extrusion Sign with Changeable Insert, Flat Face	Venus
Section 10440	Interior Aluminum Extrusion Sign with Changeable Insert, Flat Face	Fascia
Section 10440	Interior Modular Interchangeable Signs - Jigsaw	Jigsaw
Section 10440	Interior Modular Interchangeable Signs - Puzzle	Puzzle

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.

B. [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. Supplier: Obtain all products in this section from a single supplier.
- B. Regulatory Requirements: Products shall meet requirements of the Americans With Disabilities Act Accessibility Guidelines (ADAAG) and local amendments and modifications.
- C. Installer: Installation shall be performed by installer specialized and experienced in work similar to that required for this project.

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. Submit in accordance with requirements of Division 1.
- B. Product Data: Submit product data for specified products. Include material details for each sign specified.
- C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including dimensions, anchorage, and accessories.
- D. Samples: Submit supplier's standard color chart for selection purposes and selected colors for verification purposes.
- E. Installation: Submit supplier's installation instructions.
- F. Closeout Submittals:
 - 1. Submit operation and maintenance data for installed products, including precautions against harmful cleaning materials and methods.
 - 2. Submit warranty documents specified herein.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of Division 1.
 - 1. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
 - 2. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
 - 3. Store products protected from weather, temperature, and other harmful conditions as recommended by supplier.
 - 4. Handle products in accordance with manufacturer's instructions.

1.5 WARRANTY

- A. Project Warranty: Comply with requirements of Division 1.
- B. 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 Signage Innovations, 8181 Jetstar Drive, Suite 100, Irving TX 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: HORIZON, arched sign face sign.

 In 2.1 C-O below, modify to include sign type & specifications based on intended use.

- C. HORIZON Interior Double-Sided Suspended Directional/Identity Signs (HRZ.13.1, HRZ.13.2, HRZ.13.3, HRZ.13.4):
 - 1. Arched face anodized aluminum frame size (one side): Specify size: [198.11 mm or 299.72 mm] [7.8" or 11.8"] height x [599.44 mm or 899.16 mm or 1199.89 mm] [23.6" or 35.4" or 47.24"] width.
 - 2. Graphic insert size (one side): Specify size [180 mm or 280 mm] [7.08" or 11"] panel height x [597 mm or 897 mm or 1197 mm] [23.5" or 35.31" or 47.12"] width; One arched aluminum graphic panel per sign side.
 - 3. Clear Anodized Aluminum Frame [Standard and Custom Color Options Available]
 - 4. Clear Anodized Aluminum End Caps [Standard and Custom Color Options Available]
 - 5. Accent Bar [Standard and Custom Color Options Available]
 - 6. Panel color: [Specify color from manufacturer's standard color chart.]
 - 7. Letter style[s] and letter size[s]: [Specify from manufacturer's standard letter styles chart.]
 - 8. Text or graphic technique:
 - a) [LTV series vinyl letters]
 - b) [Digitally Printed Vinyl Graphics]
 - 9. Text vinyl color[s]: [Specify from manufacturer's standard color chart.]
 - 10. Text schedule: [Verify correct capitalization.]
 - 11. Suspension Mounting: Internally mounted aircraft cable for ceiling suspension
- D. HORIZON Interior Double-Sided Flag Mounted Signs (HRZ.11, HRZ.12):
 - 1. Arched face anodized aluminum frame size (one side): Specify size: [293.87 mm or 393.7 mm] [11.57" or 15.5"] height x [299.72 mm] [11.8"] width.

2. Graphic insert size (one side): Specify size: [280 mm or 381 mm] [11.06" or 15"] panel height x [297 mm] [11.69"] width; One arched aluminum graphic panel per sign side.
 3. Clear Anodized Aluminum Frame [Standard and Custom Color Options Available]
 4. Clear Anodized Aluminum End Caps [Standard and Custom Color Options Available]
 5. Accent Bar [Standard and Custom Color Options Available]
 6. Panel color: [Specify color from manufacturer's standard color chart.]
 7. Letter style[s] and letter size[s]: [Specify from manufacturer's standard letter styles chart.]
 8. Text or graphic technique:
 - a) [LTV series vinyl letters]
 - b) [Digitally Printed Vinyl Graphics]
 9. Text vinyl color[s]: [Specify from manufacturer's standard color chart.]
 10. Text schedule: [Verify correct capitalization.]
 11. Suspension Mounting: Internally mounted aircraft cable for ceiling suspension
- E. HORIZON Interior Wall-Mounted Directional Sign (HRZ.09):
1. Arched face anodized aluminum frame. Size: Specify size [647.7 mm] [25.5"] (height) x [398.7mm] [15.75"] width
 2. Clear Anodized Aluminum Panels. Size: Specify size [84 mm or 60 mm] [3.3" or 2.36"] (height) [397 mm] [15.17"] (width) [Standard or Custom Color Option Available]
 3. Clear Anodized Aluminum End Caps [Standard and Custom Color Options Available]
 4. Panel color: [Specify one color from manufacturer's standard color chart.]
 5. Letter styles[s] and letter size[s]: [Specify from manufacturer's standard letter styles chart.]
 6. Text schedule: [Verify correct capitalization.]
 7. Text or graphic technique:
 - a) [LTV series vinyl letters]
 - b) [Silk Screened Graphics]
 8. Wall Mounting: Concealed mechanical mounting brackets through aluminum frame
- F. HORIZON Interior Wall-Mounted Directional Sign (HRZ.10):
1. Arched face anodized aluminum frame. Size: Specify size [708.6 mm] [27.9"] (height) x [497.8 mm] [19.6"] width
 2. Clear Anodized Aluminum Panels. Size: Specify size [84 mm or 100 mm] [3.3" or 3.93"] (height) [497 mm] [19.6"] (width) [Standard or Custom Color Option Available]
 3. Clear Anodized Aluminum End Caps [Standard and Custom Color Options Available]
 4. Panel color: [Specify one color from manufacturer's standard color chart.]
 5. Letter styles[s] and letter size[s]: [Specify from manufacturer's standard letter styles chart.]
 6. Text schedule: [Verify correct capitalization.]
 7. Text or graphic technique:
 - a) [LTV series vinyl letters]
 - b) [Silk Screened Graphics]
 8. Wall Mounting: Concealed mechanical mounting brackets through aluminum frame
- G. HORIZON Interior Ground Mounted Monolith (HRZ.15):
1. Arched anodized aluminum frame size: Size [1998 mm] [78.7"] height x [700 mm] [27.56"] width [Standard or Custom Color Option Available]
 2. Panel Insert area size [1900 mm] [74.8"] (height) x [695 mm] [27.4"] width [Standard or Custom Color Option Available]
 3. Clear Anodized Aluminum End Cap [Standard and Custom Color Options Available]
 4. Panel color: [Specify one color from manufacturer's standard color chart.]
 5. Text or graphic color[s]: [Specify from manufacturer's standard color chart.]

6. Letter styles[s] and letter size[s]: [Specify from manufacturer's standard letter styles chart.]
7. Text or graphic technique:
 - a) [LTV series vinyl letters]
 - b) [Digitally Printed Vinyl Graphics]
8. Text schedule: [Verify correct capitalization.]
9. Floor Mounting: All thread and acorn nut, no less than six (6) mounting screws for painted black galvanized steel base [verify field conditions].

H. HORIZON Interior Ground Mounted Monolith - Directory (HRZ.16):

1. Arched anodized aluminum frame size: Size [1998mm] [78.7"] (height) x [497.84mm] [19.6"] (width)
2. Clear Anodized Aluminum Panels. Specify Size: [99.8 mm or 49.7 mm] [3.93" or 1.96"] (height) [497 mm] [19.57"] (width) [Standard or Custom Color Option Available]
3. Clear Anodized Aluminum End Cap [Standard and Custom Color Options Available]
4. Panel color: [Specify one color from manufacturer's standard color chart.]
5. Text or graphic color[s]: [Specify from manufacturer's standard color chart.]
6. Letter styles[s] and letter size[s]: [Specify from manufacturer's standard letter styles chart.]
7. Text or graphic technique:
 - a) [LTV series vinyl letters]
 - b) [Silk Screened Graphics]
8. Text schedule: [Verify correct capitalization.]
9. Floor Mounting: All thread and acorn nut, no less than six (6) mounting screws for painted black galvanized steel base [verify field conditions].

I. HORIZON Interior Wall-Mounted Room Identity Signs (HRZ.01, HRZ.02, HRZ.03, HRZ.05):

1. Arched face anodized aluminum frame size: [99.05 mm or 152.39 mm or 158.75 mm or 222.25 mm] [3.9" or 6" or 6.25" or 8.75"] (height) x [199.89 mm or 149.86 mm] [7.87" or 5.9"] (width)
2. Panel insert area size [86 mm or 140 mm or 148mm or 209 mm] [3.39" or 5.49" or 5.86" or 8.24"] (height) x [197 mm or 147 mm] [7.76" or 5.79"] (width)
3. Accent Bar [Standard or Custom Color Option Available]
4. [Clear Anodized Aluminum End Caps - Standard and Custom Color Options Available or Black ABS Plastic End Caps or Gray ABS Plastic End Caps]
5. Inserts: a/ Acrylic cover lens with matte finish w/ paper inserts or b/ ADA insert. Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer's aluminum backed photopolymer process. Sign face of single material (.040 aluminum backed photopolymer), tactile characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.
6. Wall Mounting: VHB tape and silicone or mechanically fasten with bracket mounting.

J. HORIZON Interior Wall-Mounted Suite Identity Sign with Paper Insert and ADA Footer Panel (HRZ.04):

1. Arched face anodized aluminum frame size: [165.1 mm] [6.5"] (height) x [220.97 mm] [8.7"] (width)
2. Panel insert area size: [152 mm] [6"] (height) x [218mm] [8.58"] (width)
3. Accent Bar [Standard or Custom Color Option Available]
4. [Clear Anodized Aluminum End Caps - Standard and Custom Color Options Available or Black ABS Plastic End Caps or Gray ABS Plastic End Caps]
5. Inserts: a/ Acrylic cover lens with matte finish w/ paper insert and footer b/ ADA insert. Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer's aluminum backed photopolymer process. Signface footer of single material (.040 aluminum backed photopolymer), tactile

characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.

6. ADA Footer Panel color: [Specify one color from manufacturer's standard color chart.]
 7. Paperflex panel for updateable digitally printed Graphic Film or Paper Insert Window; Custom insert size; Acrylic cover lens with matte finish
 8. Wall Mounting: VHB tape and silicone or mechanically fasten with bracket mounting.
- K. HORIZON Interior Wall-Mounted Room Identity Signs with 8 1/2" x 11" Paper Insert Area (HRZ.07):
1. Arched face anodized aluminum frame size: [298.45 mm] [11.75"] (height) x [220.97 mm] [8.7"] (width)
 2. Panel insert area size: [285 mm] [11"] (height) x [218mm] [8.58"] (width)
 3. Accent Bar [Standard or Custom Color Option Available]
 4. [Clear Anodized Aluminum End Caps - Standard and Custom Color Options Available or Black ABS Plastic End Caps or Gray ABS Plastic End Caps]
 5. Inserts: Acrylic cover lens with matte finish to fit standard 8 1/2" x 11" paper size.
 6. Paperflex panel for updateable digitally printed Graphic Film or Paper Insert Window; 8 1/2" x 11" insert size; Acrylic cover lens with matte finish
 7. Wall Mounting: VHB tape and silicone or mechanically fasten with bracket mounting.
- L. HORIZON Interior Double or Single Sided Desk Stand Sign with Updateable Insert Area (HRZ.07.1, HRZ.07.2):
1. Arched face anodized aluminum frame size: [298.45 mm] [11.75"] (height) x [220.97 mm] [8.7"] (width)
 2. Panel insert area size: [285 mm] [11"] (height) x [218mm] [8.58"] (width)
 3. Accent Bar [Standard or Custom Color Option Available]
 4. [Clear Anodized Aluminum End Caps - Standard and Custom Color Options Available or Black ABS Plastic End Caps or Gray ABS Plastic End Caps]
 5. Inserts: Acrylic cover lens with matte finish to fit standard 8 1/2" x 11" paper size.
 6. Paperflex panel for updateable digitally printed Graphic Film or Paper Insert Window; 8 1/2" x 11" insert size; Acrylic cover lens with matte finish
 7. Mounting: Freestanding on base.
- M. HORIZON Interior Wall-Mounted Elevator Evacuation Signs with Updateable Insert Area (HRZ.08):
1. Arched face anodized aluminum frame size: [298.45 mm] [11.75"] (height) x [220.97 mm] [11.8"] (width)
 2. Panel insert area size: [285 mm] [11.125"] (height) x [297mm] [11.69"] (width)
 3. Accent Bar [Standard or Custom Color Option Available]
 4. [Clear Anodized Aluminum End Caps - Standard and Custom Color Options Available or Black ABS Plastic End Caps or Gray ABS Plastic End Caps]
 5. Inserts: Acrylic cover lens with matte finish. For use with 11" x 17" paper size (cut down to insert size)
 6. Paperflex panel for updateable digitally printed Graphic Film or Paper Insert Window; for use with 11" x 17" paper size (cut down to insert size); Acrylic cover lens with matte finish
 7. Wall Mounting: VHB tape and silicone or mechanically fasten with bracket mounting.
- N. HORIZON Interior Wall-Mounted Directory (HRZ.14, HRZ.14.1)
1. Arched face anodized aluminum frame size: [497.84 mm or 619.75 mm] [19.6" or 24.4] (height) x [497.84 mm or 599.44 mm] [19.6" or 23.6] (width)
 2. Panel insert area size: [478 mm or 599 mm] [18.82" or 23.62"] (height) x [497 mm or 597 mm] [19.56" or 23.5"] (width)
 3. Accent Bar [Standard or Custom Color Option Available]
 4. Inserts: Acrylic cover lens with matte finish, digitally printed graphic.
 5. Wall Mounting: Mechanically fasten with bracket mounting.

- O. HORIZON Interior Desk Nameplate Signs (HRZ.06, HRZ.06.1, HRZ.06.2, HRZ.06.3)
 - 1. Arched face anodized aluminum single-sided desk nameplate frame. Size: [57.15 mm] [2.25"] (height) x [149.86 mm] [5.9"] (width)
 - 2. Panel insert area size: [47 mm] [1.86"] (height) x [147 mm] [5.79"] (width)
 - 3. Accent Bar [Standard or Custom Color Option Available]
 - 4. Clear Anodized Aluminum End Caps [Standard and Custom Color Options Available]
 - 5. Inserts: Paper flex panel for updateable digitally printed Graphic Film or Paper Insert Window; Nameplate Sign paper insert; Acrylic cover lens with matte finish
 - 6. Nameplate Sign Mounting: Formed aluminum desk sign fixture for free-standing; non-adhered placement, pin mounting or "C" clip mounting for desk cubicle [Standard or Custom Color Option Available]

2.2 SIGNAGE MATERIALS / COMPONENTS

A. Materials and Components:

- 1. Aluminum Frames: Extruded aluminum, AA 6063
- 2. Anodize - Properties (Alubin, Milram) BS 1615
- 3. Acrylic Covers / Properties (Palram)
Excellent weather resistance and long stability against UV degradation
- 4. PETG Covers / Properties (Palram)
High impact resistance
UV protective layer / weather resistant
Face Components:
 - a) ADA-Ready Panels: .040" Aluminum-based photopolymer tactile and Braille characters with high temperature cured polyester color coating.
 - b) Graphic Panels: Thickness varies per application and material from .020" to .069".
- 2. Supports, Fixtures, and End Caps: As required for a complete and finished installation.

B. Painted Surface Treatment Finish: Manufacturer's standard two-phase finishing process. Colors as selected from manufacturer's standard colors.

- 1. Phase One: Priming with 2u depth layer for optimum surface coat adhesion and weatherability.
- 2. Phase Two: Painting process employing two component, acrylic polyurethane coating of 20-30u depth.

C. Powder Coated Finish:

- 1. General: The standard powder coat finish consists of a Polyester or TGIC (Triglycidyl Isocyanurate) Polyester.
- 2. Surface Preparation and Powder Coating: The exterior surface is cleaned in a minimum 5 stage wash system prior to the powder application. Then all exterior surfaces are coated with either a Polyester or TGIC (Triglycidyl Isocyanurate) Polyester powder. The powder coating is electrostatically applied to an average film thickness (DFT) of 3.0 mils (0.003") and then cured in a gas fired convection oven at a temperature range of 350° F - 400° F. The thermosetting powder resin provides both inner coat as well as substrate fusion adhesion.

2.3 FABRICATION - GENERAL

- A. General: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
- B. 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.

- C. Conceal fasteners if possible; otherwise, locate fasteners to appear inconspicuous.
- D. Form panels to required size and shape. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.
- E. Coordinate dimensions and attachment methods to produce message panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.

3 EXECUTION

3.1 EXAMINATION

- A. Site Verification of Conditions: Verify installation conditions previously established under other sections are acceptable for product installation in accordance with manufacturer's instructions.
- 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.

3.2 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:
Interior Signs: Within 1/4 inch vertically and horizontally of intended location.

3.3 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.

3.4 SIGN 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