



SECTION 10 14 23 – PANEL SIGNAGE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings

1.2 SUMMARY

- A. Panel signage manufactured from material specified and utilized as either changeable or semi-permanent room identification and informational signage.
- B. Panel Signs. (select panel sign style required)
 - 1) Radius face (Curved)
 - 2) Flat Face

1.3 DEFINITIONS

- A. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."
- B. (DOJ) Department of Justice, 2010 ADA Standards for Accessible Design.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For room-identification signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - 3. Show message list, typestyles, graphic elements, including pictogram, tactile characters and Braille, and layout for each sign.
- C. Samples for Initial Selection: Manufacturer's color charts showing full range of colors and finishes available for materials.
- D. Samples for Verification: Full range of color, texture, and sign material indicated.

1.5 INFORMATIONAL SUBMITTALS

- A. Sample Warranty: For special warranty.

PANEL SIGN

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For signs to include in maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required and whose products have a record of good service life.
- B. Installer Qualifications: Fabricator of products.
- C. Source Limitations: Obtain each sign type from one source from a single manufacturer.
- D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1-2003.

1.8 FIELD CONDITIONS

- A. Field Survey: Verify mounting locations and types of substrates in field. Verify type of anchorage and mounting required and note on shop drawings.

1.9 WARRANTY

- A. Special Warranty: Howard Industries agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 5 years

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: Howard Industries, 6400 Howard Drive, Fairview, Pennsylvania, 16415; Telephone (800)-458-0591; Fax (814) 838-0011; www.howardindustries.com, Email sales@howardindustries.com.
- B. Basis of Design Product: Howard Industries HID sign system.

2.2 MATERIALS

- A. Aluminum Extrusion: 0.062-inch thick, 6063-T5 heat treated, anodized aluminum.
- B. Aluminum: 0.100-inch thick, 5052-H32 with mill finish.
- C. PVC: 2mm thick, expanded PVC (polyvinyl Chloride).
- D. Plastic-Laminate Sheet: 0.040-inch thick, plastic laminate with matte finish.
- E. Lens: 0.060-inch thick, impact modified acrylic copolymer.
- F. Paper: 28 LB, acid free, 100 brightness color copy digital paper.
- G. Rubber: 90 Durometer, PVC plastic.

- H. Wood: ½-inch thick, plain sawn, solid red oak.
- I. Acrylic (Solid Surface): Homogeneous-filled plastic resin, aggregates and pigments.
- J. Simulated Aluminum: 0.125-inch thick, impact modified acrylic copolymer.

2.3 PANEL SIGNS

- A. Room-Identification Sign [**WMP-F# (Wall Mounted Portrait-Flat#)**], [**WMP-R# (Wall Mounted Portrait-Radius#)**]: Howard Industries HID Interior Sign system is a modular sign design with message inserts and characters having uniform faces, sharp corners and precisely formed lines and flat or radius profiles. Visit Howard Industries web site for complete list of model numbers.
 - 1. HID Extrusion: Side pieces to hold sign components. Extrusion provides option for flat and radius profiles. Extrusion comes with pre-drilled mounting holes and pre-applied double-stick tape.
 - a. Material: Aluminum.
 - b. Material Thickness: 0.062-inch.
 - c. Frame Depth: 0.375-inch.
 - d. Corner: Square.
 - e. Finish: Clear anodized.
 - f. Mounting Hole: 3/16-inch diameter.
 - 2. Back Panel: Joins extrusions.
 - a. Material: Expanded PVC.
 - b. Material Thickness: 2mm thick.
 - c. Color: Black.
 - 3. End Caps: Cover ends of sign. End caps are fastened to HID extrusion with molded tabs (No Screws Required).
 - a. Material: Impact modified acrylic copolymer.
 - 1. Thickness: 0.125 inch.
 - 2. Standard Colors: [Black] and [Silver].
 - 3. Custom Color: Colors available at an additional cost – [Burgundy] [Pink] [Orange] [Yellow] [Green] [Teal] [Navy Blue] [Ivory] [White] [Dark Brown] [Gold] and [Graphite].
 - b. Material: Acrylic (Solid Surface).
 - 1. Manufacturer: LG Chemical, Ltd.
 - 2. Model: HI-MACS.
 - 3. Thickness: 0.125 inch.
 - 4. Color: [Quarry Mélange] [Steel Grey] and [Arctic Mélange].
 - 5. Custom Color: Other color options are available at an additional cost. Contact Howard Industries for list of available colors.
 - c. Material: Wood.
 - 1. Species: Red Oak.
 - 2. Thickness: 0.25 inch.
 - 3. Color: [Cherry] [Golden Oak] [Natural] [Red Mahogany] and [Dark Walnut].
 - 4. Finish: Transparent or Semi-solid; Oil-based stain.
 - 5. Sheen: Matte; Semi-gloss; or High Gloss.

4. Back Panel: Panel supports paper insert.
 - a. Manufacturer: Formica.
 - b. Material: Plastic-laminate.
 - c. Material Thickness: .040-inch.
 - d. Color: Black.
 - e. Color No.: 909-MC.
 - f. Finish: MicroDot.
5. Insert: Printed graphics or message beneath removable lens.
 - a. Material: Paper.
 - b. Material Thickness: 28 LB.
 - c. Color: White.
6. Lens Cover: Covers insert.
 - a. Material: Modified acrylic.
 - b. Material Thickness: 0.060-inch.
 - c. Color: Clear; matte non-glare.
7. Text and Typeface: ADA Tactile characters and Grade 2 Braille. Finish raised characters to contrast with background color, and finish Braille to match background color.
 - a. Font: Any Sans Serif font.
 - b. Size: Minimum 5/8-inch high; maximum 2-inch high.
 - c. Color: Stock – [Red] [Black] and [Bright White].
 - d. Color 2: [Air Force Blue] [Pine Green] [Antique Ivory] [Blue] [Burgundy] [Dark Brown] [Charcoal Grey] and [Clear].
 - e. Color 3: Other color options available upon request.
8. Mounting: Surface mounted.
 - a. Double-stick tape for smooth, flat, regular surfaces and signs less than 3-inch by 6-inch.
 - b. Concealed mechanical fasteners for rough, uneven, irregular surfaces and signs 3-inch by 6-inch or larger.

2.4 ACCESSORIES

- A. Divider Strip: A T-shaped rubber extrusion that divides sign into individual lens sections maximizing readability and functionality.
 1. Material: Rubber.
 2. Material Thickness: Head 0.060-inch; Leg 0.250-inch.
 3. Profile: T-shape – Head 0.750-inch wide; Leg 0.300-inch high.
 4. Color: [Black] and [Silver].
- B. Double-Stick Tape: Standard, foam core tape, with adhesive on both sides.

2.5 FABRICATION

- A. Signs are pre-assembled in shop. Signs are disassembled only as necessary for shipping and handling limitations.

- B. Changeable Message Capability: HID Interior Sign system allows insertion of changeable messages as follows:
 1. Furnished suction cup is used to remove lens from sign face. Initial changeable paper insert is placed on top of Micro Dot panel. Suction cup is used to re-install lens. Changeable insert templates are provided with sign.

2.6 ALUMINUM FINISHES

- A. Clear Anodic Finish: Class 2, 0.010mm or thicker.
- B. Color Anodic Finish: [Blue] [Black] and [Gold].
- C. Baked-Enamel: Any pantone color is available for additional cost.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine wall surfaces, substrate areas, and conditions to confirm satisfactory conditions for installation. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 1. Install signs level, plumb, true to line, and at locations and heights indicated.
 2. Install signs according to accessibility standards.
 3. Before installation, confirm back of HID extrusions are clean and free of materials or debris that would impair installation.
- B. Room-Identification Signs: Install in locations as indicated and according to accessibility standards.
- C. Mounting Methods:
 1. Double-Stick Tape: Clean substrate of dust, dirt, oil, grease, and remove any loose material. Peel backing off the double-stick tape. Place and hold sign flush and level to desired location and apply pressure for sign to adhere to surface.
 2. Mechanical Fasteners: Drill holes in substrate using pre-drilled holes in HID extrusions as a template. Install wall anchors in holes suitable for substrate to provide secure anchorage for fasteners. Peel backing off the double-stick tape. Place and hold sign flush and level to desired location and apply pressure for sign to adhere to surface. Insert screws through provided 3/16-inch diameter mounting holes into wall anchors and tighten.
 3. Silicone Adhesive: Use liquid silicone, alone or combined with double sided tape, to attach signs to irregular, porous, or vinyl covered surfaces. If necessary, use double sided adhesive tape to hold sign in place while silicone adhesive cures.
 - 4) Hardware/Bracket mounted: Provide manufacturers standard brackets or mounting hardware to install signs that project at right angles from wall or attach/hang from ceilings. Attach bracket or hardware securely to walls and ceilings with fasteners and anchoring devises to comply with manufacturer's instructions.
- D. Signs Mounted on Glass: An opaque sheet, matching sign size and material, is furnished with signs mounted on glass. Install opaque sheet onto opposite side of glass to conceal back of sign.

3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs having damaged or deteriorated components or finishes.

- B. After installation, clean all exposed surfaces with an **AMMONIA AND ALCOHOL-FREE** mild detergent. Maintain signs in a clean condition during construction and protect from damage until accepted by Owner.

Rev3.4 SCHEDULE (Sample)

- A. Pictogram, Tactile and Braille Regulatory Signs:
 - 1. X.
- B. Tactile and Braille Regulatory Signs:
 - 1. X.
- C. Room Identification Signs:
 - 1. X.

END OF SECTION

