

**ADVANCE CORPORATION
BRAILLE-TAC™ DIVISION**

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CHEMCAST™ ADA SIGNAGE

Braille-Tac™ Chemcast™ (etched magnesium) sign systems-tactile and Braille signage for the visually impaired-designed to comply with the regulations set forth in the Americans with Disabilities Act.

Section 10430 & 10440

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Interior and exterior non-illuminated tactile building signs including Braille.

1.02 RELATED SECTIONS

- A. Section 06200 - Finish Carpentry: For adhesives and sign installation.

1.03 REFERENCES

- A. Title III of the “Americans with Disabilities Act of 1990”, (ADA), Department of Justice.
- B. “American National Standard for Buildings and Facilities” CABO/ANSI A117.1-1992, Council of American Building Officials/American National Standards Institute.
- C. Environmental Protection Agency (EPA)
- D. Specification #800, National Library Service, National Library of Congress.
- E. American Society for Testing and Material (ASTM).
 - 1. ASTM D 523-89 Standard Test Method for Specular Gloss.
 - 2. ASTM D 2244-89 Standard Practice for Calculation of Color Differences from Instrumentally Measured Colored Coordinates.
 - 3. ASTM G 53-91 Standard Practice for Operating Light - and Water - Exposure Apparatus (Fluorescent UV - Condensation Type) for Exposure of Nonmetallic Materials.

1.04 PERFORMANCE REQUIREMENTS

- A. Sign finish shall comply with the following performance requirements:
 - 1. Weatherability: When tested in accordance with ASTM G 53, after 500 hours in a Weatherometer (equivalent to approximately 3 years exterior exposure):

- a. Gloss retention not less than 88.0 determined in accordance with ASTM D 523 at a 60 degree angle.
 - b. Color shall not change more than 1.68 units determined in accordance with ASTM D 2244 and measured with a Hunter Colorimeter, Model D25.
2. Durability: Sign finish shall show no effect after repeated use of cleaners such as Graffiti Remover #1120 manufactured by Fine Organics Corp., Lodi, NJ.

1.05 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
 1. Product Data: Manufacturer's material description and fabrication methods.
 2. Proofs: Photocopy proofs of each sign on schedule are available upon request at no charge. *(SPECIFIERS NOTE: Shop drawings are available at charges based on labor rates.)*
 3. Samples: Actual color samples of paint finish are available on manufacturer's color chart. *(SPECIFIERS NOTE: Samples of standard signs are available at catalog pricing. Variations to standard signs are subject to charges necessary for production and once approved will apply to final production of the order.)*
 4. Test Reports: Submit test reports certified by an independent testing laboratory. Show compliance with performance requirements.

1.06 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 1. Company with not less than 5 successive years experience in the manufacture of interior/ exterior building signs.
 2. Company licensed to manufacture products by the EPA using the process specified.
 3. Furnish a list of at least 3 signage projects completed in the previous 2 years if requested by the Architect.
- B. Field Samples: Furnish one sample sign to the Architect for review. When approved Architect will forward sign to the project site for installation.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver signs to the project site, packaged to prevent damage during delivery and storage. Store signs in dry area protected from the elements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Advance Corporation, Braille-Tac™ Division, 8200 - 97th Street South, Cottage Grove, Minnesota 55016 800-328-9451.
- B. Other manufacturers seeking approval of their products must comply with requirements of the Instructions to Bidders (AIA Document A701), Paragraph 3.3 prior to bidding.

2.02 SIGNS

- A. Braille-Tac™ one-piece construction sign system utilizing Chemcast™ chemical etch process to produce raised numbers and letters with corresponding Grade II Braille (complying with

Specification #800), and pictograms, on magnesium alloy sign, all complying with ADA and CABO/A117.1 requirement.

1. Sign Types:

- a. Standard pictograms or symbols (23 choices available)
- b. Room number signs
- c. Copy signs
- d. Braille cell slugs
- e. Elevator signs and symbols
- f. Custom signs
- g. Floor maps
- h. Mechanical signs
- i. Signs with holders/framing units

(SPECIFIERS NOTE: Select sign type from those listed. Select pictograms and standard copy from manufacturer's literature.)

2. Sign Sizes:

- a. Standard pictogram is 6 inches (150 mm) square.
 - b. Combination pictogram with copy and Grade II Braille is 6 inches (150 mm) wide by 8 inches (200 mm) high.
 - c. All signs are available in standard sizes with square or radius corners, with or without borders.
 - d. Maximum size for custom signs and maps is 22 inches (550 mm) by 35 inches (875 mm).
- (SPECIFIERS NOTE: Select size from manufacturer's literature.)*

3. Typestyles: Comply with ADA, Section 4.30.2 through 4.30.4.

- a. Standard pictograms, symbols and copy signs are available in 5 standard typestyles.
 - b. Non-standard copy signs and room number signs are available in ADA compliant typestyles.
 - c. Raised letters and numerals are available in heights ranging from .625" to 2.0".
- (SPECIFIERS NOTE: Select typestyle and height from manufacturer's literature. If no typestyle is specified, Optima Bold will be furnished.)*

4. Sign Finish: Factory applied baked-on-acrylic polyurethane enamel, UV inhibited.

5. Colors: Comply with ADA, Section 4.30.5. Select from 24 standard colors.

(SPECIFIERS NOTE: Select colors from manufacturer's actual color samples, to achieve greatest readability for persons with low vision. Custom colors and special effect color matching systems are available at an additional charge.)

B. Holders: Furnish holder for sign insert fabricated from one of the following materials:

1. Avonite™
2. Fountainhead™
3. Dymondwood™
4. Cherry
5. Oak
6. Walnut
7. Maple
8. Adcast™

(SPECIFIERS NOTE: Select holder material, holder color, holder style, holder size, and copy area or insert size from manufacturer's literature.)

C. Braille Cell Slugs: Grade II Braille strips for individually mounting to existing signs.

1. Standard Copy: 18 standard choices available
2. Numeric Copy: Available upon request
3. Custom Copy: Available upon request

4. Color: As selected from Color Chart. Background and cell colors are painted the same. *(SPECIFIERS NOTE: Select size and colors from manufacturer's literature. Custom colors, sizes and copy are available at an additional cost.)*

2.03 OTHER MATERIALS

- A. Adhesives: Pressure sensitive adhesive or high grade industrial silicone adhesive as recommended by the adhesive manufacturer for the substrates shown. *(SPECIFIERS NOTE: It is not the responsibility of the sign manufacturer to determine the suitability of adhesives for the substrates to which signs are to be applied.)*
- B. Prominent mechanical fasteners are not recommended due to potential injury or confusion to the visually impaired individual.
- C. Mechanical Fasteners: Countersunk holes, concealed and/or tamperproof screws, washers, and toggles may be used in securing holders to substrate.

PART 3 INSTALLATION

3.01 EXAMINATION

- A. Examine the substance 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 ADA, Section 4.30.6.

3.02 INSTALLATION

- A. Mount signs level and plumb with recommended adhesive to substrates at locations and heights to comply with ADA, Section 4.30.6.
- B. Secure sign holders to substrates with concealed fasteners, and adhere sign insert to holder.

3.03 CLEANING

- A. Remove adhesives from exposed sign surfaces as recommended by adhesive manufacturer. Clean sign surfaces as needed.

3.04 SCHEDULE

- A. Provide the following interior and/or exterior signs:
(SPECIFIERS NOTE: Furnish complete list of required signs. Include text and symbols, if any. Indicate quantity of each. Manufacturer is not responsible for quantities not clearly indicated in this schedule.)

END OF SECTION

See our printed catalog in Sweet's General Building & Renovation - Section 10426

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