

# Self-Adhesive Resurfacing Sheets

## SECTION 101100

### VISUAL DISPLAY BOARDS

#### **PART 1 GENERAL**

##### 1.01 SUMMARY

- A. Section Includes: Marker sheets / skins for resurfacing existing boards .

##### 1.02 RELATED SECTIONS

- A.

##### 1.03 REFERENCES

- A. McDonough Braungart Design Chemistry (MBDC)
- B. BYK-Gardner Wavescan 5+
- C. Porcelain Enamel Institute (PEI):
  - 1. PEI-1002, Manual and Performance Specifications for Porcelain Enamel Writing Surfaces (Whiteboards and Chalkboards).

##### 1.04 SYSTEM DESCRIPTION

- A. Performance Requirements:
  - 1. Reflectivity: Not to exceed specified range when tested at 60 degrees with a gloss meter in accordance with ASTM C 523.
  - 2. Contrast for marker boards (Light and Dark Effects): not more than 11.7 when tested with a BYK-Gardner Wave Scan 5+ Measurement Device showing visual acuity to the human eye at distances greater than 3 meters (10 feet).

##### 1.05 SUBMITTALS

- A. Product Data:
  - 1. Technical data for the components of each board specified.
  - 2. Technical data for hardware, accessories, anchorage devices, and fasteners.
- B. Shop Drawings:
  - 1. Include types of units provided, location within each room, and length and height of each unit.

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2. Include elevation drawings of each type board assembly indicating joint locations and type of joint.
3. Include cross-section details showing each type of product and components.
4. Show quantities of accessories.

C. Quality Control Submittals:

1. Test Reports: Copies of test reports, from certified testing agency, verifying that products have been tested and meet the specified performance requirements.
2. Certificates: Manufacturer's certification that the installer is acceptable.
3. Manufacturer's Instructions: Installation instructions for all products specified.

D. Contract Closeout Submittals:

1. Maintenance Data: Manufacturer's cleaning and maintenance instructions.
2. Warranty: Executed copy of manufacturer's warranty.

### 1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall be a firm engaged in the manufacture of visual display boards in the United States, making the types and sizes required, and whose products have been in satisfactory use in similar service for a minimum of 20-years.
- B. Single Source Responsibility: Obtain visual display boards of each type from a single source with resources to produce products of consistent quality in appearance and physical properties without delaying the work.

### 1.07 DELIVERY, STORAGE, AND HANDLING

A. Storage and Protection:

1. Store factory-framed units in the original packaging whenever possible, otherwise store vertically with packing materials between each unit to prevent damage.
2. Store materials in dry areas at temperatures above 55 degrees F.

### 1.08 PROJECT CONDITIONS

- A. Environmental Requirements: Install units only when the building is enclosed and interior air and substrate temperatures are stable and approximate design conditions.

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### 1.09 WARRANTY

- A. Special Warranties:
1. Writing Surface: Manufacturer's standard, written, material warranty agreeing at manufacturer's option to repair or replace the original boards if they do not retain their original writing and erasing qualities, gloss, or color consistency under normal usage and maintenance, without reducing or otherwise limiting any other rights to correction which the Owner may have under the Contract Documents. Warranty does not include the cost of removal or reinstallation.
    - a. Term of Warranty: For the life of the original installation.
  2. Workmanship and Materials: Manufacturer's standard, written, material replacement warranty agreeing at manufacturer's option to repair or replace any products which, under normal usage and maintenance, show defects in workmanship or materials, excluding damage from vandalism or misuse, without reducing or otherwise limiting any other rights to correction which the Owner may have under the Contract Documents. Warranty does not include the cost of removal or reinstallation.
    - a. Term of Warranty: 5 years from date of Substantial Completion.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. The design is based on products manufactured by, Best-Rite, a division of MooreCo Inc., Temple, Texas 76501, Phone: 800-749-2258. (www.mooreco.net).
- B. Products of other manufacturers that demonstrate equal or superior design, quality, and performance characteristics may be considered for substitution.
- C. Substitutions shall be made 5 days or more in advance of the bid date. Manufacturers must submit all data required in its entirety for review by the architect.
1. Samples;
    - a. Facing sheet showing progressive enamel coatings along with metering devices capable of measuring coating thickness, ground coat thickness, manufacturers' certificate of compliance of all items.
  2. Certifications;
    - a. Failure to provide certifications required by Part 1.06 above will result in rejection.

### 2.02 MATERIALS FOR MARKER BOARD SHEETS

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- A. Writing Surface Facing Sheet
  - 1. Shall be enameling grade 24 ga. cold rolled steel.
  - 2. All enameling grade steel shall be coated with a ground coat on the face and back surface and a smooth finish coat on the face, free from defects or orange peel texture:
    - a. Marker boards shall have a 91 to 97 percent gloss (high gloss surface)
    - b. Marker board 80 to 85 percent gloss (low gloss surface, recommended for projection. Wet cleaning required if used as a marker surface.)
    - d. Facing sheet coatings:
      - 1. 1.7-2.5 mils enameled ground coat on face minimum thickness.
      - 2. 3.0 – 4.0 mils enameled cover (color) coat for marker board.
      - 3. 1.7-2.5 mils enameled minimum ground coat on back of facing.
      - 4. Firing temperatures shall be 1475-1500 degrees minimum for marker boards.
- B. Self-adhesive film backer
  - 1. Shall be 3M brand modified acrylic adhesive film with a peel-off kraft paper backer , specifically designed for bonding to non-vitreous surfaces.

### 2.06 FABRICATION

- A. General: In accordance with PEI-1002.
- B. Lamination: Use factory machines only for applying adhesive film to porcelain steel.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verification of Conditions:
  - 1. Verify surfaces to receive units are true and plumb. Report any unsuitable conditions to the general contractor for correction prior to installation.
  - 2. Verify moisture and temperature levels of building have stabilized.

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### 3.02 INSTALLATION

- A. General:
  - 1. Install units as recommended by the manufacturer.
  - 2. Provide all necessary installation accessories.
  
- B. Mounting Height: As indicated on the drawings.

### 3.04 PROTECTION

- A. Protect boards from damage until Substantial Completion.

END OF SECTION