



## SECTION 12480

### ENTRANCE MATS AND GRATES

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Walk-off grates.

##### 1.2 RELATED SECTIONS

- A. Section 03300 – Concrete; requirements for recessed mats and grates.

##### 1.3 REFERENCES

- A. American National Standards Institute (ANSI): ANSI 117.1 - Standard for Accessible and Usable Buildings and Facilities.

##### 1.4 PERFORMANCE REQUIREMENTS

- A. Compliance with Accessibility Requirements:
  1. \_\_\_\_\_
  2. Accessibility Guidelines for Buildings and Facilities (ADAAG).
  3. ANSI A117.1.

##### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  1. Preparation instructions and recommendations.
  2. Maintenance instructions and recommendations.

##### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: The manufacturer of products specified herein shall have a minimum 5 years of experience in the fabrication and installation of similar products.
- B. Installer Qualifications: The installer shall have a minimum 2 years of experience in the installation of products similar to those specified herein.

##### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations.
- B. Store materials within absolute limits for temperature and humidity recommended by manufacturer. Protect from damage.

##### 1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install products until spaces are enclosed and weather tight, wet work in spaces is complete and dry, HVAC system is operating and maintaining ambient temperature at occupancy levels during the remainder of the construction period.
- B. Field Measurements: Verify field measurements as indicated on Shop Drawings. Where



measurements are not possible, provide control dimensions and templates.

1. Coordinate installation and location of depressed slabs and supports as required.
2. Verify openings, clearances and other dimensions relevant to the installation and final application.

## 1.9 WARRANTY

- A. Provide manufacturer's standard limited two-year warranty for products.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Amarco Products. 5 Powder Horn Dr. Warren, NJ 07059. Tel: 866-688-6287. Fax: 732-302-1120. Website: [www.amarcomats.com](http://www.amarcomats.com). Email: [info@amarcomats.com](mailto:info@amarcomats.com).
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 WALK-OFF GRATES

- A. Grate:
  1. G-740 – 1.625" Aluminum Recess Grating by Amarco Products.
  2. Application: Recessed applied.
    - a. GF-740C aluminum recessed. 1-3/4 inches (44.5 mm) frame depth with 1/2 inch (13 mm) exposed perimeter frame edge.
    - b. GF-740XD deep pit frame with or without pan. 3-5/32 inches (80.2 mm) depth.
    - c. GF-740L: Aluminum recessed angle frame. 1-3/4 inches (44.5 mm) frame depth with 1/8 inch (3 mm) exposed perimeter frame edge
  3. Tread: Tread rails shall be 6063-T52 aluminum spaced 1-1/2 inches (38 mm) on center and secured with keylock bars on 6 inches (152 mm) centers, both mechanically locked and welded in place for maximum strength. 400 lbs/wheel rolling load weight capacity.
    - a. Serrated Aluminum.
    - b. Nylon Carpet.
    - c. Diamond Tread Vinyl.
    - d. Polypropylene Brush.

### 2.3 INSERT COLORS

- A. Carpet Inserts:
  1. Color: Charcoal.
  2. Color: Black.
  3. Color: Midnight
  4. Color: Sandy.
  5. Color: Espresso.
  6. Color: Java.
  7. Color: Hunter.
  8. Color: Blue.
  9. Color: Black Cherry.
- B. Polypropylene Brush Inserts:
  1. Color: Gray.
  2. Color: Jet Black.
  3. Color: Brown.

- C. Diamond Tread Vinyl Inserts:
  - 1. Color: Gray.
  - 2. Color: Black.
  - 3. Color: Blue.
  - 4. Color: Beige.
  - 5. Color: Brown.
  
- D. Serrated Aluminum Inserts:
  - 1. Color: Mill Aluminum
  - 2. Color: Clear Anodized.
  - 3. Color: Black Anodized.
  - 4. Color: Dark Bronze Anodized.
  - 5. Color: Gold Anodized.

## 2.4 RAILS AND FRAMES COLORS

- A. Rails and Frames Colors:
  - 1. Color: Mill Aluminum.
  - 2. Color: Clear Anodized.
  - 3. Color: Black Anodized.
  - 4. Color: Dark Bronze Anodized.
  - 5. Color: Gold Anodized.

## PART 3 EXECUTION

### 3.1 EXAMINATION AND PREPARATION

- A. Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
- B. Prepare substrates using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- D. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions

### 3.2 INSTALLATION

- A. Install units plumb, square, in proper alignment with adjacent construction and secured to substrate, within manufacturer's recommended tolerances. Comply with manufacturer's installation instructions and approved submittals.

### 3.3 ADJUSTING

- A. Prior to installation, adjust components to within tolerances recommended by manufacturer.

### 3.4 CLEANING AND PROTECTION

- A. Clean exposed surfaces. Touch up, refinish, or replace damaged components in a manner acceptable to Architect.
- B. Protect installed products until completion of project.
- C. Repair or replace defective work as directed by Architect upon inspection.



END OF SECTION