**SECTION 12483**

**Entrance Mats - Profile Bar**

**PART 1: General**

**1.1 Summary**

Provide stainless steel grating panels as shown and specified, in accordance with the requirements of the Contract Documents and Drawings.

**1.2 Related Sections**

 Section XXXX – Submittals

**1.3 Submittals**

Submit a Quality Manual showing evidence of being an ISO 9000 certified company.

Submit shop drawings showing compliance with the specifications including tolerances, prior to manufacturing of grating.

Submit design calculations, by a registered ENGINEER, including loading conditions, support design, and deflection calculations of the stainless steel grating panels.

**1.4 Warranty**

Manufacturing Warranty Period: One year from acceptance and furnish owner items found to be defective within the one year period.

**1.5 Quality Assurance**

A. Grating shall be manufactured by an ISO 9001-2008 Certified company, fabricated by ASME Section IX Certified welders.

**PART 2: Products**

**2.1 Floor Grating**

Manufacturer: **Hendrick Architectural**, Carbondale, PA

email: arch@hendrickcorp.com, phone: 877-840-0881, fax: 570-282-1506

Construction: Floor Panels shall consist of precision spaced, mechanically interlocked profile wires and U-clip supports from Type 304 stainless steel. The traffic surface shall be of smooth profile bar shape with inwardly enlarging openings to minimize the likelihood of debris entrapment.

Material shall be 304 stainless steel in 1 1/8” (28.57mm), 3/4” (18.39mm) or 5/8” (15.88mm) depth. Wires to be XXX and mechanically interlocked using a U-clip support structure and spaced .187 (4.75mm) apart.

Bars and Opening: The surface bars shall be Hendrick Screen Co. No. [B-69, B-6, B-6S, B-9,

B-9S, B12 or T-16 Profile Bar]. The tread surface opening shall be[.069, .093 .140, .187, .250] inches. The open area for this opening shall be XX %. Opening size shall be controlled and continuously monitored during manufacture. The maximum opening between the wires is 3/16”. The direction of walking or flow must be perpendicular to the wire direction. The wires or supports may not line up over XX number of feet.

Stainless Steel Angle Frame shall be 1 1/4” (31.8mm), 7/8” (25.4mm) or ¾” (18.39mm) deep recess in Type 304 stainless steel with 1/8” (3.2mm) exposed surface.

Hold downs – (a) Hidden Mounting Tabs with slotted holes type 304 stainless steel to secure screen to concrete surface. (b) Surface mounted hold downs.

Loading: The screen panels shall be designed for Ultimate Load of 300 psf.

Tolerances: Panels shall be designed and fabricated so as to ensure that the completed tread panels are within the tolerances specified herein while under a no load condition: Panel length and width shall be within 1/8 inch plus or minus.

**Part 3: Execution**

**3.01 Examination**

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.

 1. Do not proceed until unsatisfactory conditions have been corrected.

**3.02 Preparation**

A. Manufacturer shall offer assistance and guidance to provide a template of irregular shaped grid assemblies to ensure a proper installation.

**3.03 Installation**

 A. Install the work of this section in strict accordance with the manufacturer’s recommendations.

 B. Set grid type at height recommended by manufacturer for most effective cleaning action.

C. Coordinate top of grid surfaces with bottom of doors that swing across to provide ample clearance between door and grid.

**3.04 Cleaning**

A. Clean the tread surface and recessed well as frequently as possible to reduce the effects of accumulated soiling that may hinder performance and lifetime.

**3.05 Protection**

**END OF SECTION**