SECTION 12 48 16

Slip Not Profile Bar - Entrance Grille

Guidance - Specifier please choose (1) option in each of the highlighted areas and remove remaining choices.

PART 1: General

1.1 Summary

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

1.2 Related Sections

1. Section XXXX

1.3 Submittals

1. Submit a Quality Manual showing evidence of being an ISO 9001 certified company.
2. Submit shop drawings showing compliance with the specifications including layout of unit with required sectioning, framing, support system, mounting type and locations along with tolerances, prior to manufacturing of grating.
3. Submit design calculations, by a registered engineer, including loading conditions, support design, and deflection calculations of the stainless steel grating panels.

1.4 Warranty

1. Manufacturing Warranty Period: One year from acceptance and furnish owner items found to be defective within the one year period.
2. Extended warranties are available at additional cost and must be approved by management prior to receipt of purchase order.

1.5 Quality Assurance

1. Grating shall be manufactured by an ISO 9001-2015 Certified company, fabricated by ASME Section IX Certified welders.

PART 2: Products

2.01 Source

1. Ten Plus Architectural Products, Mississauga, ON. email: [Info@tenplus-online.com](mailto:Info@tenplus-online.com), phone: 1-888-850-3878.

2.02 Materials

1. Construction: Floor Panels shall consist of precision spaced, mechanically interlocked profile wires and U-clip supports from Type 304 or 316 stainless steel. The traffic surface shall be of smooth profile bar shape with inwardly enlarging openings to minimize the likelihood of debris entrapment.
2. Slip Not coating on 12 mm [1/2"] or 32 mm [1-1/4"] wide treads evenly spaced throughout unit with maximum 102 mm [4"] spacing or on Alternating profile bars or on full top surface of unit.
3. The bars, U-clips, mounting brackets and banding shall be welded to form a single unit as shown on the drawings.
4. Bars to be B-12S and mechanically interlocked using a U-clip support structure and spaced at 4.75 mm [0.187"] with a 57% surface free area. Opening size shall be controlled and continuously monitored during manufacture.
5. The maximum opening between the wires is 4.75 mm [0.187"] to be considered high heel safe.
6. The bars must be assembled so, upon installation, they are perpendicular to the direction of walking traffic.
7. All bars must align with those of adjacent sections.
8. Supports: U-clip supports will be spaced on approx. 75 mm [3"] centers.
9. Finish: Matte or #4 satin.

2.03 Mounting

1. Hidden Mounting Tabs with slotted holes type 304 or 316 stainless steel to secure screen to concrete surface. Or
2. EZ Loc Mounting

2.04 Framing

1. Perimeter angle frame to be 3 mm [1/8"] thick, 38 mm [1 1/4'] deep, type 304 0r 316 stainless steel with countersunk mounting holes.
2. Pan to be 22 ga. type 304 or 316 stainless steel, cut and sealed to inside leg of frame.
3. Depth to be standard 32mm [1 ¼”], optional 22 mm [7/8”] or 19 mm [3/4”].

2.05 Performance

1. Entrance grilles capable of withstanding 14 364 N/m2 [300 lb/sf] pedestrian load, 450 Kg [1000 lb.] rolling load using a 127 mm [5"] diameter x 50 mm [2"] wide polyurethane tread for 1,000 passes.
2. Entrance grilles shall meet or exceed the minimum Coefficient of Friction of 1.1 as tested by the James Machine using Neolite in wet and dry applications.
3. Tolerances: Panels shall be designed and fabricated 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 3 mm [1/8'] plus or minus.

Part 3: Execution

3.01 Examination

1. Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion. Do not proceed until unsatisfactory conditions have been corrected.

3.02 Preparation

1. Manufacturer shall offer shop drawings, guidance and assistance with grille Installation. Where required, customer to provide a template for Irregular opening to ensure a proper fit and installation.

3.03 Installation

1. Install the work of this section in strict accordance with the manufacturer’s shop drawings and recommendations.
2. Coordinate top of grid surfaces with adjacent flooring and bottom of doors that swing across the grille. Provide ample clearance between door and grid.

3.04 Cleaning

1. Clean the tread surface and recess frequently to reduce the effects of accumulated soiling that may hinder performance and lifecycle.

3.05 Protection

1. After Installation of frame, protect it with minimum 20 mm [3/4"] sheets of plywood until all other work is complete and building is ready to be turned over to the owner.
2. Final Installation of floor grating should not take place until project has reached completion and turn over stage.

END OF SECTION