

**SECTION 12 48 16.00 50
WALK-OFF MAT**

PART 1 GENERAL**1.1 SUBMITTALS**

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Fabrication

Submit shop drawings showing accurate field measurements for fabrication. Stainless steel grid are not field adjustable.

Include template for production.

SD-03 Product Data

Walk-off mat; G

SD-04 Samples

Walk-off mat; G

Provide 12 inch square assembled sections of walk-off mat specified.

1.2 QUALITY ASSURANCE

Obtain grids and frames from one source and by a single manufacturer.

1.3 COORDINATION AND SCHEDULING

Provide oversized recesses in concrete work to receive grid frame. Defer frame installations until building enclosure is completed and related interior finish work is in progress. Field measure openings and coordinate factory production with factory templates and accurate field measurements for fabrication.

PART 2 PRODUCTS**2.1 WALK-OFF MAT**

Provide manufacturer's standard stainless steel foot grille with top-surfaced rails. Stainless steel angle frame shall be 1 1/4 inch recessed in type 304 stainless steel with 1/8 inch exposed surface. Provide grid with hidden lockdown mechanism made from type 304 stainless steel.

2.1.1 Floor Grid

Type 304 stainless steel surface wires and support bars.

- a. Tread Rail Spacing: Wires to be .086 by .117 inches electronically welded and spaced .118 inches apart.
- b. Frame Finish: Clear anodized aluminum.
- c. Top Surface: Type 304 stainless steel.
- d. Rolling load capacity: 500 lb.
- e. Class: Class 1.
- f. Recessed Mat, Depth: 1 1/8 in.
- g. Wire Spacing: 3/16 in. on center.

h. Slip Resistance Coefficient of Friction: 0.82.

2.2 FABRICATION

2.2.1 Floor Grid

Shop fabricate and shop cut tread rails to custom shape of grille layout as indicated. Provide single unit for each mat installation; do not exceed manufacturer's recommended maximum sizes for units that are removed for maintenance and cleaning. Where joints in mats are necessary, space symmetrically and away from normal traffic lanes. Miter corner joints in framing elements with hairline joints or provide prefabricated corner units without joints.

2.2.2 Recessed Frames

Size and style to fit floor grid type specified, for permanent recessed installation, complete with corner pins or reinforcement and anchorage devices. Fabricate edge-frame members in single lengths or, where frame dimensions exceed maximum available lengths, provide minimum number of pieces possible, with hairline joints equally spaced and pieces spliced together by straight connecting pins.

2.2.3 Corrosion Protection

Coat surfaces of aluminum frames that will contact cementitious material with manufacturer's standard protective coating.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Recessed Frame Units

Install recessed frame and grid to comply with manufacturer's instructions at locations indicated and with top of frame and mat in relationship to one another and to adjoining finished flooring as recommended by manufacturer. Set top of mat at height for most effective cleaning action and coordinate top of mat surface with doors that swing across mat to provide clearance under door.

3.2 PROTECTION

After completing frame installations, provide temporary filler or plywood or fiberboard in mat recess and cover frame with plywood protective flooring. Maintain protection until construction traffic has ended and Project is near time of Substantial Completion.

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