
Part 1: GENERAL

1.1 SECTION INCLUDES

- A. Recessed Aluminum Floor Mats and Frames.

1.2 RELATED SECTIONS

- A. Section 03300 – Cast-In-Place Concrete: For concrete floor slab recess, and grouting frames into recess
- B. Section 07110 – Damp-proofing.
- C. Section 15150 – Sanitary Waste and Vent Piping: For floor drain if applicable.

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM B 221-93 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
- B. American Architectural Manufacturer's Association (AAMA)
 - 1. AAMA 607.1 Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum

1.4 PERFORMANCE REQUIREMENTS

- A. Loading: 1500-pound per wheel rolling load.

1.5 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
 - 1. Product Data: Manufacturer's product specifications, installation and maintenance instructions.
 - 2. Shop Drawings: Show layout and types of Mats and Frames not less than half-scale sections of typical installations, details of patterns or designs, anchors, and accessories, and field measurements of slab recess to receive frames grates (if applicable).
 - 3. Samples for Selection Purposes: Actual sections of mat and frame material in a convenient but representative size showing full range of colors, textures, finishes and patterns available for each type of floor mat and frame specified.
 - 4. Samples for Verification Purposes: Not less than 150mm square sections of mat material and 150mm length of frame material in selected colors and finishes for each type of mat and frame specified.

1.6 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain floor mats and frames from one source and from a single manufacturer.

1.7 SEQUENCING AND SCHEDULING

- A. If product is to be recessed, coordinate with concrete work so that products are available for placing integrity with floor slabs.

1.8 WARRANTY

- A. Floor mats and frames shall be fabricated free of defects in materials and workmanship in accordance with the General Conditions, and the manufacturer shall offer a 10 year warranty against defects in materials and workmanship.

Part 2: PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Prospec Specialties Inc.
3601 Highway 7, Suite 400
Markham ON, L3R 0M3, Canada
www.prospecspecialties.com

- B. Other manufacturers seeking approval of their products must comply with requirements of the Instructions to Bidders prior to bidding.

2.2 ENTRANCE SYSTEM TYPE

- A. Mat Description: DIRT FIGHTER closed construction, 7/10" (18mm) overall depth, double-sided, reversible, heel & wheel proof entrance door mat with recycled fiber-reinforced DOUBLE wiper rubber treads alternating with aluminum scraper bars interwoven with high tensile stainless steel wires.
- B. Frame Description: "WELCOME MAT-WELL" aluminum recessed frame

2.3 MATERIALS

- A. Tread Insert: Recycled, Nylon-reinforced buffed rubber mechanically secured to tread rails.
 - 1. Tread Color: Grey, Black, Brown, Green, Red, Cognac, Blue (Specify to select one and delete others)
- B. Aluminum Scraper Bars: ASTM B221, alloy 6063-T6
 - 1. Finish: Mill
- C. Aluminum Frames: Extruded aluminum, ASTM B221, alloy 6063-T6, with butted corners. Recessed Extruded aluminum angle frame, ASTM B221, alloy 6063-T6, 1/8" (3mm) thick profile, 25/32" (20mm) overall depth with butted corners. Frame finish shall be supplied in silver anodized (standard) or custom colors upon request.
- D. Stainless Steel Cable Spacing: 1-1/2" (38mm)
- E. Fasteners: Non-corrosive screws and anchors for securing frames together and to floors.
- F. Construction: Two nos. of wiper rubber strips alternating with aluminum Scraper divider bars assembled with 2.7mm diameter galvanized steel wire.

2.4 FABRICATION

- A. Shop fabricated mats and frames to greatest extent possible in sizes shown. Where not otherwise shown, provide single unit for each installation, but do not exceed manufacturer's maximum size recommendation for units intended for removal and cleaning. Where joints are necessary, provide 'T' section space symmetrically and away from normal traffic lanes. Butt corners of framing elements with hairline joints. Verify sizes by field measurement before shop fabrication.

Part 3: EXECUTION

3.1 EXAMINATION

- A. Products must be placed on a flat and level substrate. Substrate shall meet tolerance of 3.2mm over 10 feet 3.28M in accordance with ACI 302.
- B. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install products in accordance with manufacturer's instructions, at locations shown and with top of products level with adjoining finishes flooring where applicable.
- B. Coordinate top of product surfaces with swinging doors to provide under-door clearance.

3.3 PROTECTION

- A. Upon completion of frame installations, provide temporary filler of plywood or fibreboard in mat-well recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and Project is near time of Substantial Completion.
- B. Install product when no further wheeled construction traffic will occur and wet type operations including painting and decorating are complete.