

Suggested Specification
SECTION 12 48 13
Pawling Pro-Tek® Model EM-70-OS

PART 1 GENERAL

1.01 SUMMARY

- A. This section includes the following flooring systems:
 - 1. Entrance Floor Mats and Frames
- B. Related Sections
 - 1. Section 03 30 00 - Cast-In-Place Concrete
 - 2. Section 03 62 00 - Grouting

1.02 REFERENCES

- A. Abbreviations and Acronyms
 - 1. American Society for Testing and Materials (ASTM)
 - 2. International Organization for Standardization (ISO)

1.03 SUBMITTALS

- A. General: Submit the following in accordance with Section 01 33 00 "Submittal Procedures".
- B. Product Data:
 - 1. Data sheet illustrating product dimensions, options, and related components.
 - 2. Installation instructions.
- C. Samples for verification of design suitability, finish, and accessory attachment.
 - 1. Sample of assembled matting sufficient in size to show materials and method of assembly.
 - 2. Sample of perimeter and divider frame proportionate to mat sample

1.04 QUALITY ASSURANCE

- A. Manufacturer to have no less than 5 years experience in the production of entrance flooring products having successful in-service performance.
- B. Obtain grating, perimeter framing, and installation hardware from a single manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Storage: Store flooring products in original packaging. Protect from weather, extreme temperatures, and moisture.
 - 1. Maintain temperature during storage between 40°- 100°F (4°- 38°C).
 - 2. Store matting flat to prevent twisting or bending of components.
- B. Handling: Take adequate measure to prevent twisting and bending.

1.06 SITE CONDITIONS

- A. Ambient Conditions: Do not install matting until substantial completion of project. Do not install perimeter framing until installation areas are enclosed and weatherproof. HVAC system must be operational and maintaining temperature at 65°-75°F (18°-24°C) for at least 72 hours prior to installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Pawling Corporation
Architectural Products
32 Nelson Hill Rd
Wassaic, NY 12592
Tel: 800-431-3456
www.pawling.com

2.02 DESCRIPTION

- A. Model EM-70-OS, 11/16" (18) deep, reversible entrance mat consisting of .590" (15) moisture-absorbing recycled rubber inserts, alternating with .570" (14.5) aluminum profiles to provide a scraping action. Spacers located 1.5" (38) on center provide a .2" (5) opening between aluminum and inserts for pass-thru of dirt and debris. Mat is assembled with .078" (2) diameter, cold galvanized, cross-wires spaced 1.5" (38) apart. For indoor use in light to heavy traffic areas, not recommended for high-heel traffic (see EM-70-CS closed construction for use with high heels).
 - 1. Sustainability Characteristics
 - a. Insert: 100% post-consumer recycled content

2.03 DESIGN AND PERFORMANCE CRITERIA

- A. Flammability: Class B in accordance with EN ISO 9239-1, and EN ISO 11952-2
- B. Smoke: Classification of S1 in accordance with EN 13501-1 (2000)
- C. Lightfastness: Class 5-8 in accordance with ISO 105 B02 (1994)
- D. Wear: Wronz 25,000
- E. Moisture Absorption: Extra weight compared to dry state.
 - 1. Wet: 1.65 oz/ft² (503.66gr/m²)
 - 2. After 1 hour: 1.51 oz/ft² (460.90 gr/m²)
 - 3. After 24 hours: .29 oz/ft² (87.72 gr/m²)

2.04 MATERIALS

- A. Aluminum Profiles: Extruded aluminum, alloy 6063-T6 as described in ASTM B221, nominal 0.060" (1.52) thickness.
- B. Rubber Inserts: 100% recycled content, cut from discarded aircraft tires.
- C. Wires: Steel wire, 70-72 Shore A (1180-1370 N/mm²) hardness, 0.078" (2) diameter, with 30 to 35 micron thick cold galvanized coating.
- D. Spacers: Black thermoplastic, 7/16" (11) diameter disc shape, on perforated thermoplastic retaining strip.

2.05 ACCESSORIES

- A. Perimeter Framing
 - 1. Model RGF-250, alloy 6063-T5 extruded aluminum frame with 1/2" (13) exposed surface for cast-in-place installation. Frame includes mounting anchors and 90° corner connectors.
 - 2. Model SSF-250, alloy 6105-T5 extruded aluminum angle frame with 1/8" (3.2) exposed surface for mounting in existing recess.
- B. Divider
 - 1. Model SSF-250T, alloy 6105-T5 extruded aluminum divider with 1/8" (3.2) exposed surface. Use with all perimeter framing between adjacent left-to-right mat sections.

2.06 FINISHES

- A. Aluminum profiles and frames: Available in mill or 201-R1 clear anodized finish.
- B. Rubber Inserts: Natural gray, with buffed top and bottom surfaces to expose 0.040" (1) nylon fiber.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine recess for flatness. Substrate must be level within 1/8" (3.2) over 120" (3048). Do not proceed until unsatisfactory conditions are corrected.
- B. Verify that HVAC is operating and installation area temperature has been maintained between 65°-75°F (18°-24°C) for at least 72 hours prior to installation.
- C. Do not proceed until unsatisfactory conditions are corrected.

3.02 PREPARATION

- A. Surface Preparation: Clean substrate to remove dust and debris.

3.03 INSTALLATION

- A. Install gratings and frames in accordance with manufacturer's installation instructions.
- B. Install perimeter framing in coordination with masonry work and installation of adjacent flooring. Provide temporary materials to fill recess and protect frame from damage until construction traffic is minimized.
- C. Defer installation of matting until substantial completion of project.
- D. Acclimate materials to building conditions for at least 24 hours prior to installation.
- E. Coordinate finished height of mat and frame with surrounding floor surfaces. Provide adequate clearance for swinging doors.

3.04 PROTECTION

- A. Protect installed matting and frame from damage by other trades. Use materials that will not mark, stain, or leave residue on the product.