SECTION 12484

FLOOR MATS AND FRAMES

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section includes interior recessed floor mats and frames.

1.02 SUBMITTALS

A. Product Data: Furnish product data for each type of floor mat specified, including manufacturer's specifications and installation instructions, details of construction relative to materials, dimensions of individual components, profiles, and finishes.

B. Shop Drawings: Show layout and types of floor mat, full-scale sections of typical installations, details of patterns or designs, anchors, and accessories.

C. Samples for Verification Purposes: 12-inch-square assembled section of floor mat member showing each type of color of exposed floor mat and accessories required. Where finishes involve normal color and texture variations, include sample sets showing full range of variations expected.

D. Maintenance Data: Manufacturer's printed instructions for cleaning and maintaining floor mats.

1.03 QUALITY ASSURANCE

A. Flammability in accordance with ASTM E648, Class 1, Critical Radiant Flux, minimum 0.45 watts/sq. m.

B. Slip resistance in accordance with ASTM D2047, Coefficient of Friction, minimum 0.60 for accessible routes.

C. Standard rolling load performance of 1000-lb./wheel, load applied to a solid 5-inch x 2-inch wide polyurethane wheel, 1,000 passes without damage.

1.04 PROJECT CONDITIONS

A. Field Measurements: Check actual framed openings for mats by accurate field measurements before fabrication; show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.

B. For recess application coordinate frame installation with concrete construction to ensure recess and frame anchorage are accurate and that the base is level and flat.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

A. Construction Specialties, Inc. "G4 PediTred" or approved equal.

2.02 MATERIALS

A. Aluminum: ASTM B221, alloys 6063-T5, 6063-T6 for extrusions.

B. Flexible and prime PVC extrusions.

C. Tread Inserts: Carpet as specified.

2.03 FLOOR MATS AND FRAMES

A. Floor Mats: Extruded 6105-T5 aluminum alloy with 3/4-inch deep tread rails joined by a dual durometer PVC combination hinge. The hinge shall be complete with perforations between each tread rail for drainage. Rail finish as selected by the Architect from manufacturer's complete range of colors and finishes.

B. Mat Frames: Model TNG Tapered Angle Frame. ½-inch deep recessed frame in 6063-T5 aluminum alloy. Frame color as selected by the Architect from manufacturer's complete range of colors.

C. Tread Inserts: HD MonoTuft HD Carpet meeting the Carpet and Rug Institute's standard for indoor air quality. Fibers shall include a minimum of 100, 12-mil monofilament fibers per square inch and colorfast, solution-dyed nylon. Color as selected by the Architect from manufacturer's complete range of colors. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Anti-static carpet fiber shall contain antimicrobial additive and be treated with Scotchgard to reduce soiling. Carpet with shall be 33-oz./sq. yd.

2.03 FABRICATION

A. Provide single unit for each mat installation. Miter corner joints in framing elements with hairline joints or provide prefabricated corner units without joints. Where possible, verify sizes by field measurement before shop fabrication.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install recessed frames and mats to comply with manufacturer's instructions, with top of frames and mats in proper relationship to one another and to adjoining finished flooring. Set mat tops at height recommended by manufacturer; coordinate top of mat surfaces with doors that swing across mats to provide clearance under door.

3.02 PROTECTION

A. Defer installation of floor mats until near time of Substantial Completion for Project.

END OF SECTION