

SECTION 12484 - FLOOR MATS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Entrance mats in recessed frames.
- B. Related Sections include the following:
 - 1. Division 3 Section "Cast-in-Place Concrete" for slab depression for recessed mats and frames.

1.3 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Show the following:
 - 1. Divisions between mat sections.
 - 2. Perimeter floor moldings.
- C. Samples for Initial Selection: For each type of product indicated.
- D. Samples for Verification: For each type of product indicated.
 - 1. Floor Mat: 12-inch wide by 24-inch long section of floor mat.
 - 2. Frame Members: 12-inch- long Sample of each type and color.
- E. Maintenance Data: For floor mats and frames to include in maintenance manuals.

1.4 QUALITY ASSURANCE

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

- B. Accessibility Requirements: Provide installed floor mats that comply with Section 4.5 in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."

1.5 PROJECT CONDITIONS

- A. Field Measurements: Indicate measurements on Shop Drawings.

1.6 COORDINATION

- A. Coordinate size and location of recesses in concrete with installation of finish floors to receive floor mats and frames.

PART 2 - PRODUCTS

2.1 ENTRANCE MATS

- A. Manufacturers: Subject to compliance with requirements, provide product by the following: .
 - 1. American Floor Products Company, Inc.
T/A: AFCO-USA
P.O.Box 7055
Gaithersburg, MD 20898-7055
7977 Cessna Avenue
Gaithersburg, MD 20879-4167
- B. Rubber-Tire Mats: Units of edge-grain-laminated and chenille-buffed, rubber-tire wall cuts; bonded to sheet rubber or other durable flexible backing sheet to form 3/8-inch- thick, 12-inch-wide continuous strips. Install with all tire strips parallel to each other and perpendicular to the direction of pedestrian travel.
- C. Basis of Design Product by Century Flooring CC-1440, 12" x 25' coils.
 - 1. Century Flooring made of selected aircraft and truck tires with sidewall cords buffed to a chenille finish. Individual strips of approximately 3/8" thickness shall be secured together with a rubber or chemical set backing.
 - 2. Thickness: 3/8" (\pm 1/8" Tolerance)
 - 3. Weight: 2.3 lbs. per sq. ft.
 - 4. Color: Charcoal.
 - 5. Mat Size: As indicated. Run strips full width of frame without seams.
- D. Recessed Frames:
 - 1. Extruded Aluminum: ASTM B 221, Alloy 6061-T6 or Alloy 6063-T5, T6, or T52.
 - 2. Color: Clear.

2.2 FABRICATION

- A. Floor Mats: Install strips of matt continuously in frame without seams, running full width of frame.
- B. Recessed Frames: As indicated, for permanent recessed installation, complete with corner pins or reinforcement and anchorage devices.
 - 1. 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.
- C. Coat surfaces of aluminum frames that will contact cementitious material with manufacturer's standard protective coating.

2.3 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and floor conditions for compliance with requirements for location, sizes, minimum recess depth, and other conditions affecting installation of floor mats and frames.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install recessed mat frames to comply with manufacturer's written instructions. Set mat tops at height recommended by manufacturer for most effective cleaning action; coordinate top of mat surfaces with bottom of doors that swing across mats to provide clearance between door and mat.
 - 1. Install necessary shims, spacers, and anchorages for proper location and secure attachment of frames.
 - 2. Install grout and fill around frames and, if required to set mat tops at proper elevations, in recesses under mats. Finish grout and fill smooth and level.

3.3 PROTECTION

- A. After completing frame installation and concrete work, provide temporary filler of plywood or fiberboard in recesses and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and Project is near Substantial Completion.

END OF SECTION

SECTION 12491 – REPAIR OF HORIZONTAL LOUVER BLINDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Repair and cleaning of horizontal louver blinds in the first and second floor Reading Rooms and fans above blinds at the first floor.

1.3 SUBMITTALS

- A. Samples for Verification: For cloth tape ladders, lift and tilt cords, replacement parts.
 - 1. Tapes, cords and replacement parts: Full width, not less than 6 inches long.

1.4 QUALITY ASSURANCE

- A. Installer Limitations: Installer with experience in repair of similar installations.

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Remove horizontal blinds and fans before the start of demolition and construction. Do not re-install blinds until construction and wet and dirty finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Survey and Field Tagging: Tag blinds and fans so they may be reinstalled in the same windows from which they were removed.

PART 2 - PRODUCTS

2.1 REPLACEMENT PARTS

- A. Replace all parts that are missing, or damaged or soiled beyond repair. Match color, texture, pattern, material and gloss of existing like parts.

- B. Replace tape ladders, and cords with new material matching existing material in color and kind.

2.2 CLEANING

- A. Initiate cleaning by thoroughly vacuuming parts with a soft bristle brush. Clean slats, valance, bottom rails and other hard parts exposed to view with mild detergent and water. Repair parts that have minor damage. Clean, lubricate or replace operating parts. Replace tape ladders and operating cords.

2.3 INSTALLATION

- A. Install horizontal louver blinds and fans in windows from which they were removed. Install units level and plumb and aligned with adjacent units.

2.4 ADJUSTING

- A. Adjust horizontal louver blinds to operate smoothly, easily, safely, and free of binding or malfunction throughout entire operational range.

2.5 CLEANING AND PROTECTION

- A. Provide final protection and maintain conditions that ensure that horizontal louver blinds and fans are without damage or deterioration at time of Substantial Completion.

END OF SECTION

SECTION 12494 - ROLLER SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes roller shades.
- B. Related Sections include the following:
 - 1. Division 6 Section "Miscellaneous Carpentry" for wood blocking and grounds for mounting roller shades and accessories.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions.
- B. Shop Drawings: Show location and extent of roller shades. Show installation details, mountings, attachments to other work, operational clearances, and relationship to adjoining work.
- C. Samples for Initial Selection: For each colored component of each type of shade indicated.
- D. Samples for Verification:
 - 1. For the following products:
 - a. Shade Material: Not less than 3 inches square, with specified treatments applied. Mark face of material.
- E. Window Treatment Schedule: For roller shades. Use same designations indicated on Drawings.
- F. Qualification Data: For Installer.
- G. Maintenance Data: For roller shades to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining roller shades and finishes.
 - 2. Precautions about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
 - 3. Operating hardware.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
- B. Source Limitations: Obtain roller shades through one source from a single manufacturer.
- C. Fire-Test-Response Characteristics: Provide roller shade band materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Flame-Resistance Ratings: Passes NFPA 701.
- D. Product Standard: Provide roller shades complying with WCMA A 100.1.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver shades in factory packages, marked with manufacturer and product name, and location of installation using same designations indicated on Drawings and in a window treatment schedule.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and wet and dirty finish work in spaces, including painting, is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 ROLLER SHADES

- A. Products: Subject to compliance with requirements, provide product by one of the following:
 - 1. Draper Inc.
 - 2. Hunter Douglas, Inc.; Hunter Douglas Window Fashions Division.
 - 3. MechoShade Systems, Inc.
- B. Basis-of-Design Product: Subject to compliance with requirements, provide Mecho manual operating, chain drive, sunscreen roller shades in exterior windows of rooms and spaces as indicated in the schedules. Provide Slimline brackets.

- C. Environmentally Certified Shadecloth: MechoShade Systems, Inc., EcoVeil group, 1350 Series, fabricated from TPO for both core yarn and jacket, single thickness, non-raveling 0.030 inch (0.762 mm) thick fabric.
 - 1. Weave: 5 percent open 2x2 basket weave.
 - 2. Color: Selected from manufacturer's standard colors.
 - 3. Bottom Hem: Straight.
- D. Rollers: Electrogalvanized or epoxy primed steel or extruded-aluminum tube of diameter and wall thickness required to support and fit internal components of operating system and the weight and width of shade band material without sagging; designed to be easily removable from support brackets; with manufacturer's standard method for attaching shade material. Provide capacity for one roller shade band(s) per roller.
- E. Direction of Roll: Reverse, from front of roller.
- F. Mounting Brackets: Galvanized or zinc-plated steel.
- G. Bottom Bar: Steel or extruded aluminum. Provide concealed, by pocket of shade material, internal-type bottom bar with concealed weight bar as required for smooth, properly balanced shade operation.
- H. Mounting: As indicated on Drawings, mounting permitting easy removal and replacement without damaging roller shade or adjacent surfaces and finishes.
- I. Shade Operation: Manual; with continuous-loop bead-chain, clutch, and cord tensioner and bracket lift operator.
 - 1. Bead Chain: Nickel-plated metal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions, and located so shade band is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.

3.3 ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

- A. Clean roller shade surfaces after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 SCHEDULE

- A. Shades are required in all six windows within Technical Services at the lower level.

END OF SECTION