

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. Carpet tile.
 - 2. Entrance mats in floor recess in slab.
- B. Related Sections include the following:
 - 1. Division 3 Section "Concrete" for slab depression grouting and filling 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. Items penetrating floor mats and frames, including the following:
 - a. Door control devices.
- C. Samples for Initial Selection: For each type of product indicated.
- D. Samples for Verification: For each type of product indicated.
 - 1. Floor Mat: Three (3) full-size tiles of each color for selection.
 - 2. Metal Edging: 12-inch- (300-mm-) long Sample of each type.
- E. Maintenance Data: For floor mats to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain floor mats 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)," and Sections 302 and 303 in ICC A117.1.

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.

PART 2 - PRODUCTS

2.1 ENTRANCE MAT CARPET TILES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. American Floor Products Company, Inc.
2. ARDEN Architectural Specialties, Inc.
3. Balco, Inc.
4. Cactus Mat Mfg. Co.
5. K. N. Crowder Manufacturing, Inc.
6. C/S Group.
7. Durable Corporation.
8. J. L. Industries, Inc.
9. Kadee Industries, Inc.
10. Matco International.
11. Musson, R. C. Rubber Co.
12. Pawling Corporation; Architectural Products Division.
13. Reese Enterprises, Inc.

- B. Basis-of-Design Product: Subject to compliance with requirements, provide Lee's Carpet, First Step, Color 508 or 438 to be selected by Architect based on full-size samples or a comparable product by one of the above manufacturers:

1. Surface Texture: Performance Loop Pile
2. Face Yarn Weight: 3802/yard.
3. Gauge: 5/32".
4. Finished Pile Thickness: .217"
5. Face Yarn - Antron Legacy Nylon by Dupont
6. Die System: Yarn died.

- C. Metal Edging:

1. 1/4" thick x depth zinc flooring edge strip manufactured for this type application, inset into concrete floors so mat is flush with finish lobby floor.
2. Color: Mill finish or brushed stainless or zinc alloy.

2.2 CONCRETE FILL AND GROUT MATERIALS

- A. Provide concrete grout and fill equivalent in strength to cast-in-place concrete slabs for recessed mats and frames. Use aggregate no larger than one-third fill thickness.

2.3 FABRICATION

- A. Fabricate edge angle for application shown. Fabricate per manufacturer..
- B. Coat surfaces of aluminum frames that will contact cementitious material with manufacturer's standard protective coating.

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.
- B. Coordinate depth of floor pieces in slab. Allow room for leveling and for unevenness of slab.

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 cement leveling compound as required to level carpet mats to align smoothly with adjoining paving and flooring materials so there is no tripping hazard.

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 12484



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 as follows:
 - 1. Vision units that allow light through at punched window openings in exterior brick walls (excluding curtainwall at Lobby).
 - 2. Vision units with black out fabric at multi-purpose room A (140), conference Room C (135), PC Training (134) and Conference 400.
- 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.
 - 1. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.
- B. Shop Drawings: Show location and extent of roller shades. Include elevations, sections, details, and dimensions not shown in Product Data. Show installation details, mountings, attachments to other work, operational clearances, and relationship to adjoining work.
- C. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
 - 1. Size and location of access to shade operator and adjustable components.
 - 2. Minimum Drawing Scale: 1/4 inch = 1 foot (1:48).
 - 3. Minimum Drawing Scale: 1/8 inch = 1 foot (1:96).
 - 4. Minimum Drawing Scale: 1:50.
 - 5. Minimum Drawing Scale: 1:100.
- D. Samples for Initial Selection: For each colored component of each type of shade indicated.
 - 1. Include similar Samples of accessories involving color selection.
- E. Samples for Verification:

1. Complete, full-size operating unit not less than 16 inches (400 mm) wide for each type of roller shade indicated.
 2. For the following products:
 - a. Shade Material for Initial Selection: Provide full range chart of manufacturer's available colors in varying % openness, including 3%, 5% and 10%.
 - b. Shade Material For Secondary Selection: Provide not less than 24-inch-square section of fabric selected from dye lot used for the Work, with specified treatments applied. Show complete pattern repeat. Mark top and face of material.
 - c. Shade Material for Final Selection: Provide fabric the size of one punched window opening, one in each percent of openness – 3%, 5% and 10%.
- F. Product Certificates: For each type of roller shade, signed by product manufacturer.
- G. Qualification Data: For Installer.
- H. Product Test Reports: For each type of roller shade.
- I. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for each type of roller shade.
- J. 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. Product Standard: Provide roller shades complying with WCMA A 100.1.
- D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Provide one complete vision shade and one complete vision black out in each percent openness finally selected based on fabric samples above. Install shade in window opening for review and approval.
 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

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.

1.7 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Rollers Shades: Before installation begins, for each size, color, texture, and pattern indicated, full-size units equal to 5 percent of amount installed, sized to fit typical window openings.

PART 2 - PRODUCTS

2.1 ROLLER SHADES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Am-Source International.
 - 2. BTX Window Automation, Inc.
 - 3. Custom Laminations, Inc..
 - 4. Draper Inc..
 - 5. Hunter Douglas, Inc.; Hunter Douglas Window Fashions Division.
 - 6. Levolor; Levolor-Kirsch Window Fashions; a Newell Rubbermaid Company.
 - 7. Lutron Shading Solutions by VIMCO.
 - 8. MechoShade Systems, Inc..
 - 9. Nysan Shading Systems Ltd.
 - 10. Shade Techniques, Inc.
 - 11. Silent Gliss USA, Inc.
 - 12. SMAutomatic, Inc.
 - 13. Sol-R-Veil.
 - 14. Verosol USA, Inc.; OEM Shades Inc.
- B. Basis-of-Design Product: Subject to compliance with requirements, at vision units provide Mecho Shade Systems, Inc. Suburban shade with no fascia and exposed end brackets. Finish end brackets to match shade with manufacturer's standard color. At vision/blackout fabric units provide Mecho Shade III double shade bracket #15 with no fascia and exposed end brackets finished to match shade.
- C. Shade Band Material: The following shade clothes illustrate acceptable products, but other manufacturers products will be considered.

1. Fabric Width: As required to fit window openings.
 2. Acceptable Product: Phifer sheer weave 4000/4100/4400, or Mermet M Screen
 3. Black out Fabric: Black out material to be selected from manufacturers samples.
 4. Colors: As selected by Architect from manufacturer's full range, in grey / black / dark bronze range.
 5. Material Openness Factor: 3 percent at windows on west side and 5% on windows at all other sides. Architect to review samples of cloth with greater openness up to 10% as part of submittal process.
 6. 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, unless otherwise indicated on Drawings. At areas indicated to receive black out shades.
- E. Direction of Roll: Reverse, from front of roller for vision shades and back of roller for blackout shades.
- F. Mounting Brackets: Painted with manufacturer's paint in dark bronze, grey or black.
- G. Bottom Bar: Steel or extruded aluminum, with plastic or metal capped ends. Provide exposed-to-view, external-type bottom bar with concealed weight bar as required for smooth, properly balanced shade operation.
- H. Mounting: Inside 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. Clutch: Capacity to lift size and weight of shade; sized to fit roller or provide adaptor.
 2. Loop Length: Length required to make operation convenient from floor level.
 3. Bead Chain: Nickel-plated metal or stainless steel.
 4. Operating Function: Stop and hold shade at any position in ascending or descending travel.

2.2 ROLLER SHADE FABRICATION

- A. Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.
- B. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
1. Lifting Mechanism: With permanently lubricated moving parts.
- C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
1. Shade Units Installed between (Inside) Jambs: Edge of shade not more than 1/4 inch (6 mm) from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.

- D. Installation Brackets: Designed for easy removal and reinstallation of shade, roller, and operating hardware and for hardware position and shade mounting method indicated.
- E. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.
- F. Color-Coated Finish: For metal components exposed to view, apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.
- G. Colors of Metal and Plastic Components Exposed to View: Matching or coordinating with shade band color and as selected by Architect from manufacturer's full range, unless otherwise indicated.

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 (50 mm) to interior face of glass. Allow clearances for window operation hardware.
- B. Connections: Connect motorized operators to building electrical system.

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.

- 7 DEMONSTRATION

- Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain roller shades. Refer to Division 1 Section Demonstration and "training."

END OF SECTION 12494

SECTION 12511 - 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 Venetian blinds.

- B. Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 8 Sections for window walls with horizontal louver blinds mounted on window frames.

1.3 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

- B. Product data for each type of horizontal louver blind specified. Include printed data on physical characteristics.

- C. Shop drawings showing location and extent of blinds. Show installation details and relationship to adjoining work. Include elevations indicating blind units. Indicate location of blind controls.

- D. Samples for initial selection in the form of manufacturer's color charts showing the full range of colors, textures, and patterns available for each type of horizontal louver blind indicated.

- E. Samples for verification of the following products, in manufacturer's standard sizes, showing the full range of color, texture, and pattern variations expected. Prepare samples from the same material to be used for the Work.

1. Louver: Manufacturer's standard-size unit, not less than 12 inches (300 mm) long.
2. Valance: Manufacturer's standard-size unit, not less than 12 inches (300 mm) long.

- F. Schedule of horizontal louver blinds using same room designations indicated on Drawings.

- G. Maintenance data for horizontal louver blinds to include in the operation and maintenance manual specified in Division 1. Include the following:

1. Methods for maintaining horizontal louver blinds and finishes.
2. Precautions for cleaning materials and methods that could be detrimental to finishes and performance.

1.4 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide horizontal louver blinds identical to those tested for the following fire-test-response characteristics as determined by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

1. Test Method: NFPA 701.
 2. Rating: Pass.
- B. Single-Source Responsibility: Obtain each type of horizontal louver blind from one source and by a single manufacturer.
- C. Mockups: Prior to installing horizontal louver blinds, construct mockups for each form of construction and finish required to verify selections made under sample submittals and to demonstrate aesthetic effects as well as qualities of materials and execution. Build mockups to comply with the following requirements, using materials indicated for final unit of Work.
1. Locate mockups on-site in location and of size indicated or, if not indicated, as directed by Architect.
 2. Notify Architect one week in advance of the dates and times when mockups will be constructed.
 3. Demonstrate the proposed range of aesthetic effects and workmanship.
 4. Obtain Architect's acceptance of mockups before start of final unit of Work.
 5. Retain and maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
 - a. When directed, demolish and remove mockups from Project site.
 - b. Accepted mockups in an undisturbed condition at the time of Substantial Completion may become part of the completed Work.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Check actual horizontal louver blind dimensions by accurate field measurements before fabrication, and show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Enclosure and Environmental Limitations: Do not install horizontal louver blinds until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient temperature and humidity conditions are and will be continuously maintained at values near those indicated for final occupancy.

1.6 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with labels clearly describing contents.
1. Horizontal Louver Blinds: Before installation begins, furnish quantity of full-size units equal to 5 percent of amount of each size installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Horizontal Louver Blinds:

- a. Eastern Standard Corp.
- b. Faber.
- c. Hunter Douglas, Inc.
- d. Joanna Western Mills Co.
- e. Kirsch.
- f. Levolor Corp.
- g. Louverdrape, Inc.
- h. Nanik.
- i. Springs Window Fashions Division, Inc.; (Bali-Graber).
- j. Verosol USA, Inc.

2.2 HORIZONTAL LOUVER BLINDS

A. Louvers: Manufacturer's standard as follows:

- 1. Aluminum.
- 2. Nominal Louver Width: 1 inch (25 mm) (miniblinds).

B. Tilt Operation: Manual with wand.

- 1. Length of Tilt Control: Full length of blind.
- 2. Position of Tilt Control: Left side, unless otherwise indicated.
- 3. Tilt: Full.

C. Cord-Lock Operation: Cord lock; locks pull cord to stop blind at any position in ascending or descending travel.

D. Cord Equalizers: Self-aligning to maintain horizontal louver blind position.

E. Valance: Match color of louvers.

F. Mounting: As required from ceiling or on aluminum curtainwall frame. Confirm mounting method with architect prior to installation.

G. Colors and Patterns: Where manufacturer's standard products are indicated, provide horizontal louvers complying with the following requirements:

- 1. Provide Architect's selections from manufacturer's full range of colors and patterns for horizontal louver blinds of type indicated.

2.3 FABRICATION

A. Product Standard and Description: Comply with AWCMA Document 1029 for each horizontal louver blind unit consisting of louvers, rails, cord locks, tilting mechanisms, tapes, and installation hardware.

B. Lifting and Tilting Mechanisms: Noncorrosive, self-lubricating materials.

C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):

- 1. Blind Units Installed Between (Inside) Jambs: Width equal to 1/4 inch (6 mm) per side or 1/2 inch (12 mm) total, plus or minus 1/8 inch (3 mm), less than jamb to jamb dimension of

opening in which each blind is installed. Length equal to 1/4 inch (6 mm), plus or minus 1/8 inch (3 mm), less than head to sill dimension of opening in which each blind is installed.

2. Blind Units Installed Outside Jambs: Width and length as indicated, with terminations between blinds of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

- D. Installation Fasteners: Not less than 2 fasteners per bracket, fabricated from metal noncorrosive to blind hardware and adjoining construction; support blind units under conditions of normal use.
- E. Hold-Down Brackets: Manufacturer's standard, as indicated.
- F. Side Channels: Manufacturer's standard, as indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of horizontal louver blinds. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install blinds level, plumb, and located so exterior louver edges in any position are not closer than 1 inch (25 mm) to interior face of glass lites.

3.3 ADJUSTING

- A. Adjust components and accessories for proper operation.

3.4 CLEANING

- A. Clean blind surfaces, according to manufacturer's instructions, after installation.
- B. Remove surplus materials, packaging, rubbish, and debris resulting from installation. Leave installation areas neat, clean, and ready for use.

3.5 PROTECTION

- A. Provide final protection and maintain conditions in a manner acceptable to manufacturer and Installer that ensure that horizontal louver blinds are without damage or deterioration at the time of Substantial Completion.

END OF SECTION 12511