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. Surface-type floor mats of the following type:
      a. Rubber-entrance mats with carpet inserts.

1.3 SUBMITTALS

A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.

B. 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.

C. Shop drawings showing layout and types of floor mat, full-scale sections of typical installations, details of patterns or designs, anchors, and accessories.

D. Samples for initial selection purposes in form of manufacturer's color charts consisting of actual sections of floor mat materials, showing full range of colors, textures, finishes, and patterns available, for type of floor mat indicated.

E. Samples for verification purposes in form of 12-inch-square assembled section of floor mat with selected tread surface showing each type of finish and color of exposed floor mat and accessories required. Where finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.

F. Maintenance data in the form of manufacturer's printed instructions for cleaning and maintaining floor mats.

1.4 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 a delay of the Work.

   1. Where field measurements cannot be made without delaying the Work, guarantee opening dimensions and proceed with fabrication without field measurements. Coordinate floor construction to ensure that actual opening dimensions correspond to guaranteed dimensions.
1.5 QUALITY ASSURANCE

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

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. One-Piece Rubber Mats:
   b. Flexco Company.
   c. Johnsonite, div of Duramax
   d. R.C. Musson Rubber Company.
   e. Pawling Corp.
   f. U.S. Mat and Rubber Company, Inc.

2.2 MATERIALS

A. General: Provide colors, patterns, and profiles of materials. Where not indicated, provide colors, patterns, and profiles selected by Architect from manufacturer’s standards.

B. One-Piece Rubber Mats: Compounded rubber mats; square edged except beveled where indicated for surface application (no recess in floor to receive mat).

1. Mat Style: Solid sheet (no perforations).
2. Thickness: 3/8 inch.
3. Field Surface: Low-rib narrow-wale corrugated.
5. Tread Surface: Fusion-bonded carpet insert of 1/4-inch-high, 28 oz. per sq. yd. level-cut DuPont Antron III nylon filament.
6. Design Standards:
   a. Products: RC Musson Track Strip & Vinyl Mat or Johnsonite “Floor Keeper”.
   b. Matting Color: Dark Grey.
   c. Carpet: Color as selected by Architect.

The use of a Design Standard is to establish a level of quality and appearance for the finished work and is not to be construed as a restraint of trade or a limit of competition.

C. Edge Angles: Where mats abut storefront or at exposed edges provide inverted edge angles of extruded aluminum: ASTM B 221 (ASTM B 221M), Alloy 6061-T6 or Alloy 6063-T5, T6, or T52.

2.3 FABRICATION

A. Shop-fabricate units of floor mat work to greatest extent possible in sizes as indicated. Where not indicated otherwise, provide single unit for each mat installation, but do not exceed manufacturer’s maximum size recommendation. Where joints in mats are necessary, space symmetrically and away from normal traffic lanes.
PART 3 - EXECUTION

3.1 PREPARATION

A. Condition mats to interior temperatures prior to installation.

B. Unroll material and allow to relax fully prior to installation, to eliminate puckers, and ridges in the initial set of the product.

3.2 INSTALLATION

A. Install surface-type units to comply with manufacturer's instructions at locations indicated and coordinated with entrance locations and traffic patterns.

B. Install inverted edge angles where mats abut storefront to act as continuous retention clips to prevent curling or displacement of mat. Set angles a maximum of ¾ inch above substrate, and anchor to storefront at 8 inches o.c.

C. Where edge angle creates a raised edge and tripping hazard, provide glue down installation or transition edging to create a smooth transition to surrounding floor surfaces.

3.3 PROTECTION

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

END OF SECTION 12690
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 for manual operation at all exterior windows.

B. Fabric as selected with openness factor indicated (and black-out shades where indicated). Black-out shades to be provided at assembly space 115.

C. 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. 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. Samples for Initial Selection: For each colored component of each type of roller shade indicated.
   1. Include similar Samples of accessories involving color selection.

D. Window Treatment Schedule: Include roller shades in schedule using same room designations indicated on Drawings. Indicate size of shade with no individual shade section exceeding 60 inch width.

E. 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: An experienced installer who has completed installation of roller shades similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

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:


1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver shades in factory packages, marked with manufacturer and product name, and location of installation using same room 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 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Draper Shade & Screen Co., Inc.
2. MechoShade Systems, Inc.
3. VIMCO.

2.2 ROLLER SHADES

A. 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 hook-and-loop strip or removable spline in channel for attaching shade material. Provide capacity for one roller shade band per roller, unless otherwise indicated.
B. Direction of Roll: Regular, from back of roller.

C. Mounting Brackets: Galvanized or zinc-plated steel.

D. Bottom Bar: Steel or extruded aluminum, with plastic or metal capped ends. Provide bottom bar with concealed weight bar concealed, by pocket of shade material, internal-type as required for smooth, properly balanced shade operation.

E. Shade Operation: Manual; with continuous loop bead chain, clutch, and cord tensioner and bracket lift operator.
   1. Position of Clutch Operator: Right side of unit unless otherwise indicated or required for operation.
   2. Clutch: Capacity to lift size and weight of shade; sized to fit roller or provide adaptor.
   3. Lift Assist Mechanism: Manufacturer's standard spring assist for balancing roller shade weight and lifting heavy roller shades.
   4. Loop Length: Full length of roller shade.
   5. Bead Chain: Stainless steel.
   6. Cord Tensioner Mounting: Sill or floor.
   7. Operating Function: Stop and hold shade at any position in ascending or descending travel.

F. Shade Band Material: PVC-coated polyester.
   1. Fabric Width: 60 inches (1520 mm).
   2. Pattern: Equal to Draper PW3500 with 5 percent openness factor.
   3. Colors: As selected by Architect from manufacturer's full range.

G. Mounting: Wall extension brackets mounting permitting easy removal and replacement without damaging roller shade or adjacent surfaces and finishes.

H. Direction of Roll: Regular, from back of roller, and reverse, from front of roller, as indicated on Drawings for double-roller shades.

I. Mounting Brackets: Fascia end caps, fabricated from steel finished to match fascia or headbox.

J. Audiovisual Light-Blocking Shades: Designed for eliminating all visible light gaps when shades are fully closed; fabricated from blackout shade band material with fascia and bottom bar extended and formed for light-tight joints among shade components and between shade components and adjacent construction. Provide blackout shade band material in addition to shade band material at assembly space 115.
   1. Side Channels, Sill Channel or Angle, and Perimeter Seals: Manufacturer's standard design, including sill light seal attached to bottom bar, for eliminating light gaps when shades are closed.
   2. Shade Band Retention System: Manufacturer's standard design for guiding shade band material through range of travel and holding shade band flat with edges of material within side channels.
   3. Include black-out shade on doors at room #115 with appropriate hardware.

2.3 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 Outside Jambs: Width and length from measured openings, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

D. Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting roller, and operating hardware and for hardware position and shade mounting method indicated.

E. Installation Fasteners: Not 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. Finish: For metal components exposed to view, finish as selected by Architect.

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. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER SHADE INSTALLATION

A. Install roller shades level, plumb, square, and true 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.

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.

END OF TION 12494