

## SECTION 12372

## KITCHEN CASEWORK

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

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

## 1.2 SUMMARY

- A. This Section includes wood kitchen cabinets and countertops.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
  - 1. Division 11 Section "Residential Equipment" for appliances mounted in kitchen casework.
  - 2. Division 15 Section "Plumbing Fixtures" for sink units mounted in countertops.

## 1.3 DEFINITIONS

- A. Exposed Surfaces: Surfaces visible when drawers and opaque doors are closed; behind clear glass doors; bottoms of casework 43 inches or more above finished floor.
- B. Semi-exposed Surfaces: Surfaces which become visible when opaque doors are open or drawers are extended; bottoms of casework are more than 30 inches and less than 42 inches above finished floor.
- C. Concealed Surfaces: Surfaces considered concealed when surfaces not visible after installation; bottoms of casework less than 30 inches above finished floor; tops of casework over 78 inches above finished floor and not visible from an upper level; stretchers, blocking, and components concealed by drawers.
- D. Reveal Overlay: Door and drawer faces partially cover cabinet frame.
- E. Flush Overlay: Door and drawer faces cover cabinet frame with space between

faces sufficient for operating clearance.

- F. Flush: Door and drawer faces flush with cabinet face.

#### 1.4 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each casework type specified.
- C. Product data for each hardware type specified.
- D. Shop drawings for casework showing location and size, accessories, materials, finishes, and filler panels. Include fully dimensioned plans, elevations, and anchorage details to countertop and walls.
- E. Shop drawings for countertops showing sizes, shapes, edge and backsplash profiles, cutouts for plumbing fixtures, and methods of joining.
- F. Samples for initial selection purposes in the form of manufacturer's color charts consisting of sections of units showing full range of colors, textures, and patterns available for each type of material indicated or exposed to view.
- G. Samples for verification purposes in full-size units of each type of material indicated; in sets for each color, texture, and pattern specified, showing full range of variations expected in these characteristics.
  - 1. 12-inch-square samples of wood with transparent finish for each species.
  - 2. 12-inch-square samples of veneered plywood with transparent finish.
  - 3. 12-inch-square samples of plastic laminate for countertops.
  - 4. 12-inch-square samples of plastic laminate for casework finish.
  - 5. 6-inch-square samples of filled polymer for countertops.
  - 6. One unit of each type of exposed hardware.
- H. Product certificates signed by the manufacturer certifying that materials furnished comply with specified requirements.
- I. Maintenance data for kitchen casework for inclusion in Maintenance Manual specified in Division 1.

## 1.5 QUALITY ASSURANCE

- A. Kitchen Casework: Comply with ANSI/NKCA A161.1 and HUD "Minimum Property Standards," Housing 4910.1, paragraph 611-1.1. NKCA Certification: Provide kitchen casework with National Kitchen Cabinet Association (NKCA) "Certified Cabinet" seal affixed in a semi-exposed location of each unit, evidencing compliance with above standard.
- B. Single-Source Responsibility: Obtain kitchen casework from one source from a single manufacturer.

## 1.6 DELIVERY, STORAGE, AND HANDLING

Deliver casework as a factory-assembled unit, packaged individually, and shipped each in its own carton.

## 1.7 PROJECT CONDITIONS

- A. Environmental Conditions: Comply with casework manufacturer's recommendations for optimum temperature and humidity conditions during storage and installation. Do not install casework until these conditions have been attained and stabilized.
- B. Field Measurements: Verify casework dimensions by field measurements. Verify kitchen casework can be installed in compliance with the original design and referenced standards.
- C. Field Measurements: Verify countertop size and shape prior to fabrication by field measurements taken after base units are installed.

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

1. Kitchen Casework:
  - a. Imperial Cabinet Co., Inc.
  - b. Merillat Industries, Inc.
  - c. Triangle Pacific Corp.
  - d. Yorktowne Cabinets
  
2. Plastic Laminate for Countertops:
  - a. Domtar Industries, Inc.
  - b. Formica Corp.
  - c. Laminart
  - d. Nevamar Corp.
  - e. Sterling Engineered Products, Inc., Pionite
  - f. Westinghouse Electric Corp., Micarta Div.
  - g. Wilson Plastics Co., Dart Industries, Inc.
  
3. Filled Polymer for Countertops:
  - a. Avonite, Inc.
  - b. Du Pont Co., Corian
  - c. Guardsman Products, Inc., Solidex
  - d. Nevamar Corp., Fountainhead
  - e. Perma-bilt Industries, Inc., Marlan

## 2.2 MATERIALS, GENERAL

- A. Sizes, dimensions, and thicknesses given are minimum dimensions.
  
- B. Particleboard: ANSI A208.1, mat-formed particleboard, Grade 1-M-2 with minimum density of 40 pcf, internal bond of 60 psi, and minimum screw-holding capacity of 225 lbs. on faces and 200 lbs. on edges.
  
- C. Hardwood Plywood: ANSI/HPMA HP hardwood and decorative plywood, Good Grade (1) or better, of thickness, species, and cut.
  
- D. Particleboard-Core Plywood: ANSI/HPMA HP hardwood and decorative plywood, Good Grade (1) or better, of thickness, species, and cut.
  
- E. Solid Wood: Clear, dry, sound, and free of defects selected from First Grade lumber as defined by NHLA.
  
- F. Hardboard: ANSI A135.4, Class 1, tempered.

- G. Plastic Laminate: NEMA LD 3; in thicknesses indicated and colors or patterns, and finishes as selected from approved samples.
- H. Thermoset Decorative Finish: ALA-1985; Melamine or polyester.

### 2.3 WOOD CASEWORK SPECIES AND STYLE

- A. Solid Wood and Face Veneer Species: Natural birch.
- B. Solid Wood and Face Veneer Species: Northern hard maple.
- C. Solid Wood and Face Veneer Species: Red oak.
- D. Solid Wood and Face Veneer Species: White oak.
- E. Solid Wood and Face Veneer Species: Pine.
- F. Solid Wood and Face Veneer Species: Ash.
- G. Solid Wood and Face Veneer Species: Cherry.
- H. Face Style: Flush overlay.
- I. Face Style: Reveal overlay.
- J. Face Style: Flush.

### 2.4 WOOD CASEWORK FABRICATION

- A. Face Frame: Frameless.
- B. Face Frame: 1-inch by 1-5/8-inch solid wood frame rails and stiles with glued mortise and tenon joints.
- C. Flush Door and Drawer Fronts: 1/2-inch-thick, 5-ply, hardwood plywood with hardwood face veneers and crossbanding.
- D. Door and Drawer Fronts: Solid wood stiles and rails, 5/8-inch thick for doors and 5/8-inch thick for drawer fronts, with 3/4-inch-thick solid wood for center panels.
- E. Door and Drawer Fronts: Solid wood stiles and rails, 3/4-inch thick for doors and 3/4-inch thick for drawer fronts, with 1/4-inch-thick plywood for center panels.
- F. Back, Top, and Bottom Rails: 3/4-inch by 3-inch solid wood, interlocking with end

panels and rabbeted to receive top and bottom panels. Back rails secured under pressure with glue and with mechanical fasteners.

- G. Exposed Cabinet Ends: 1/2-inch-thick particleboard with face veneer to match door and drawer fronts and thermoset decorative finish on interior surfaces. Connect to stile with pressure-glued tongue and plow joint and concealed mechanical fasteners.
- H. Concealed Cabinet Ends: 1/2-inch-thick particleboard with thermoset decorative finish on interior surfaces. Connect to stile with pressure-glued tongue and plow joint and concealed mechanical fasteners.
- I. Cabinet Tops and Bottoms: 1/2-inch-thick particleboard or 3/8-inch-thick hardwood plywood, fully supported by and secured in rabbets in end panels, front frame, and back rail.
- J. Wall-Hung Unit Back Panels: 1/8-inch-thick hardboard or 3/16-inch-thick hardwood plywood fastened to rear edge of ends and to top and bottom rails.
- K. Base Unit Back Panels: 1/8-inch-thick hardboard with thermoset decorative finish on interior surfaces fastened to rear edge of end panels and to top and bottom rails.
- L. Front Frame Drawer Rails: 1-inch by 1-1/4-inch solid wood mortised and fastened into face frame.
- M. Toe Boards: 5/8-inch-thick particleboard attached between end panels and extended from bottom panel to floor.
- N. Corner Blocks: Solid wood, glued and fastened in each top corner to maintain casework squareness and rigidity.
- O. Corner Posts: 3/4-inch by 7/8-inch solid wood, attached to vertical corners; fabricated with notches to provide adjustability and retainment of interior storage devices.
- P. Drawers: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body. Fabricate with subfront and back rabbeted into sides and secured with glue and mechanical fasteners as follows:
  - 1. Subfronts, Sides, and Backs: 3/8-inch-thick particleboard.
  - 2. Bottoms: 1/4-inch-thick particleboard set into rabbets in back, sides, and front.
  - 3. Drawer Suspension: Provide for a minimum capacity of 50 lbs., with twin track, side-mounted drawer-glide suspension with nylon rollers. Provide self-closing feature and positive stop.

- Q. Shelves: 5/8-inch-thick particleboard core plywood or 1/2-inch-thick particleboard with thermoset decorative finish on top, bottom, and exposed (front) edge.

## 2.5 WOOD CASEWORK, FINISHES

- A. Factory Finishing: To the greatest extent possible, finish casework at factory. Defer only final touch-up until after installation.
- B. Finish: Match Architect's sample.
- C. Finish: Provide selections made by Architect from full range of standard finishes available.

## 2.6 PLASTIC LAMINATE CASEWORK

- A. Face Style: Flush overlay.
- B. Face Style: Reveal overlay.
- C. Face Style: Flush.
- D. Face Frame: Frameless.
- E. Face Frame: 1-inch by 1-5/8-inch solid wood frame rails and stiles with glued mortise and tenon joints.
- F. Concealed Surfaces: Sound and dry solid wood, plywood, or particleboard without defects affecting strength, utility, or stability.
- G. Sides, Dividers, Tops, Bottoms, Shelves, and Stretchers: Plastic laminate GP 28 on 1/2-inch-thick particleboard. Provide stretchers for top of base cabinet.
- H. Back Panels: 1/8-inch-thick hardboard with thermoset decorative finish on interior surfaces fastened to rear edge of end panels and to top and bottom rails.
- I. Exposed Edge Treatment: Edge doors and drawer fronts with plastic laminate of same material as exposed faces.
- J. Semi-exposed Edge Treatment: Edge top of drawer body with high-impact plastic tee edging. Edge remaining casework surfaces with plastic laminate GP 28 matching adjoining plastic laminate in color, pattern, and finish.
- K. Doors, Drawer Fronts, Fixed Panels, Toeboards, and Ends: Plastic laminate GP 28

on 5/8-inch-thick particleboard.

- L. Drawers: Fabricate with front, bottom, and back rabbeted in sides and secured with glue and mechanical fasteners as follows:
  - 1. Subfronts, Sides, and Backs: 3/8-inch-thick particleboard.
  - 2. Bottoms: 1/4-inch-thick particleboard set into rabbets in back, sides, and front.
  - 3. Drawer Suspension: Provide for a minimum capacity of 50 lbs., with twin track, side-mounted drawer-glide suspension with nylon rollers. Provide self-closing feature and positive stop.
- M. Joinery: Rabbet backs flush into end panels and secure with concealed mechanical fasteners. Connect tops and bottoms of wall cabinets and bottoms and stretchers of base cabinets to ends and dividers with mechanical fasteners. Rabbet tops, bottoms, and backs into end panels.
- N. Subbase: 3/4-inch-thick particleboard.
- O. Toe Board: 5/8-inch-thick particleboard, attached to subbase with concealed fasteners.

## 2.7 CASEWORK HARDWARE

General: Manufacturer's standard units complying with ANSI A156.9, of type, material, size, and finish as selected from manufacturer's standard choices.

## 2.8 COUNTERTOPS, PLASTIC LAMINATE

- A. General: Comply with ANSI A161.2.
- B. Countertop, Backsplash, and Endsplash Fabrication: Plastic laminate GP 50 on 3/4-inch particleboard.
- C. Countertop, Backsplash, and Endsplash Fabrication: Plastic laminate PF 42 on 3/4-inch particleboard.
- D. Configuration: Provide countertops with the following front style, cove, and backsplash style:
  - 1. Front Style: No drip.

2. Front Style: Rolled.
3. Front Style: Bevel.
4. Front Style: Self-edge.
5. Cove: Direct bond.
6. Cove: Cove molding.
7. Cove: Applied.
8. Backsplash and Endsplash Style: Curved or waterfall shape with scribe.
9. Backsplash and Endsplash Style: Square edge without scribe.
10. Backsplash and Endsplash Style: Sloped top edge without scribe.
11. Backsplash and Endsplash Style: Square edge with scribe.

## 2.9 COUNTERTOPS, FILLED POLYMER

- A. Filled Polymer: Comply with the following NEMA LD3 tests:
  1. Test Methods: 3.06 for high temperature resistance, 3.07 for cigarette resistance, 3.09 for stain and chemical resistance, and 3.10 for color stability.
  2. Rating: No change and no lasting effect.
- B. Countertop Thickness: 1/2-inch.
- C. Countertop Thickness: 3/4-inch.
- D. Backsplash and Endsplash Thickness: 1/4-inch.
- E. Backsplash and Endsplash Thickness: 1/2-inch.
- F. Backsplash and Endsplash Thickness: 3/4-inch.
- G. Configuration: Provide countertops with the following front style, cove, and backsplash style:
  1. Front Style: No drip.

2. Front Style: Rolled.
3. Front Style: Bevel.
4. Front Style: Self-edge.
5. Cove: Direct bond.
6. Cove: Cove molding.
7. Cove: Applied.
8. Backsplash and Endsplash Style: Curved or waterfall shape with scribe.
9. Backsplash and Endsplash Style: Square edge without scribe.
10. Backsplash and Endsplash Style: Sloped top edge without scribe.
11. Backsplash and Endsplash Style: Square edge with scribe.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install casework with no variations in flushness of adjoining surfaces, using concealed shims. Where casework abuts other finished work, scribe, and cut for accurate fit. Provide filler strips, scribe strips, and moldings in finish to match casework face.
- B. Install casework without distortion so that doors and drawers fit openings properly and are aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete the installation of hardware and accessories as indicated.
- C. Install casework and countertop level and plumb to a tolerance of 1/8 inch in 8 feet.
- D. Fasten unit of casework to adjacent unit and into structural support members of wall construction with #10 sheet metal or wood screws with washer head or washer.
- E. Fasten plastic laminate countertops by screwing through corner blocks in base units into underside of countertop. Spline and glue joints in countertops and provide concealed mechanical clamping of joint.
- F. Fasten filled-polymer countertops by screwing through corner blocks in base units into underside of countertop. Align adjacent surfaces. Form seams 1/8-inch wide

and adhere with manufacturer's recommended joint adhesive in color to match countertop.

### 3.2 ADJUSTING AND CLEANING

- A. Adjust hardware to center doors and drawers in openings and lubricate to provide unencumbered operation.
- B. Clean casework on exposed and semi-exposed surfaces. Touch up factory-applied finishes to restore damaged or soiled areas.

END OF SECTION 12372

## SECTION 12511

## HORIZONTAL LOUVER BLINDS

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

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 horizontal louver blinds.
- B. Related Sections: The following Sections contain requirements that relate to this Section: Wood blocking and grounds are included in Division 6 Section "Rough Carpentry."

## 1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of 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 at and relationship to adjoining work. Include elevations indicating blind units. Indicate location of blind controls.
- D. Samples for initial selection purposes in manufacturer's standard sizes showing full range of colors available for each type of blind indicated.
- E. Samples for Verification Purposes: One 12-inch-long slat for each color slat required.
- F. Maintenance data to include in Operating and Maintenance Manual specified in Division 1.

## 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer who has specialized in

installing horizontal louver blinds similar to those required for this Project.

- B. Surface Burning Characteristics: Provide blinds identical to those tested for the following fire performance characteristics as determined by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Test Method: NFPA 701, Small Scale Vertical Burn Test.
- C. Single-Source Responsibility: Obtain horizontal louver blinds from one source of a single manufacturer.

## 1.5 PROJECT CONDITIONS

Field Measurements: Check openings by field measurements before fabrication. Show recorded measurements on shop drawings. Coordinate fabrication schedule with construction progress to avoid delay in the Work.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

Available Products: Subject to compliance with requirements, horizontal louver blinds that may be incorporated in the Work include, but are not limited to, Levolor Riviera Mark I - 1" Slat Horizontal Louver Blind or approved equal.

### 2.2 MATERIALS AND FABRICATION

- A. Product Standard, Color and Description: American Window Covering Manufacturers Association (AWCMA) Document 1029. Each horizontal louver blind unit consists of slats, rails, cord lock, tilting mechanism, tapes, and installation hardware complying with referenced product standard and requirements indicated. Headrail shall be a valance-free design, with detailing of polyethylene. Slats shall be of 5000 series magnesium aluminum alloy, 1-inch wide, Color #885 Dark Bronze.
- 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): Blind Units Installed Inside 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 two fasteners per bracket, fabricated from metal noncorrosive to blind hardware and adjoining construction and to support blind units under conditions of normal use. Hold down brackets should be provided with each window unit.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine openings where horizontal louver blinds will be installed prior to beginning installation. Verify that critical dimensions are correct and surface conditions acceptable. Complete all finishing operations, including painting, before beginning installation.
- B. Do not proceed with installation until unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

Install blinds level, plumb, and located so exterior slat edges in any position are not closer than 1 inch to interior face of glass lites, gaps between slat ends and jambs do not exceed 1/4 inch plus or minus 1/8 inch, and bottom rail in fully lowered position is within 1/2 inch of bottom of window or other opening.

### 3.3 CLEANING

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

END OF SECTION 12511

## SECTION 12541

## DRAPERIES AND SHEERS

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

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

## 1.2 SUMMARY

This Section includes the following:

- A. Drapery and sheer fabric.
- B. Drapery and sheer fabric treatment.
- C. Lining fabric.
- D. Drapery and sheer headings.
- E. Mounting hardware.

## 1.3 SUBMITTALS

- A. General: Submit the following according to Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each type of hardware specified.
- C. Shop drawings showing location, draperies, headings, and anchorage details. Show relationship to adjoining work. Indicate location of drapery pulls.
- D. Samples for verification purposes of each type of drapery indicated; in sets for each color, texture, and pattern specified, showing full range of variations expected in these characteristics. Prepare samples from same material to be used for work.
  - 1. Drapery, Lining and Interlining, and Sheer Material: Full-width sample, not less than 36 inches long, with specified treatments applied. Show complete pattern repeat.

2. Bottom and Side Hem Intersection: Sample fabrication, including weights.
  3. Drapery Track: 18-inch-long sample including end of track with operating hardware.
- E. Maintenance data for draperies, including how draperies should be cleaned, to include in "Operating and Maintenance Manual" specified in Division 1.

#### 1.4 QUALITY ASSURANCE

- A. Surface-Burning Characteristics: Provide drapery materials identical to those tested for the following fire performance characteristics, by Underwriters Laboratories (UL) or other testing and inspecting organizations acceptable to authorities having jurisdiction. Test Method: NFPA 701, Small Scale Vertical Burn Test. Rating: Pass.
- B. Single-Source Responsibility: Fabrication and installation shall be provided by the same source.

#### 1.5 PROJECT CONDITIONS

Field Measurements: Check openings by field measurements before fabrication; show recorded measurements on shop drawings.

#### 1.6 EXTRA MATERIALS

Furnish extra materials from same dye lot as drapery and sheer materials installed, packaged with protective covering for storage and identified with labels describing contents. Deliver extra materials to Government.

- A. Drapery, Lining and Sheer Materials: Furnish yardage equal to 5 percent of amount installed.
- B. Track, Carriers, and Operating Devices: Furnish quantity of full-size units equal to 5 percent of amount installed.

### PART 2 - PRODUCTS

#### 2.1 DRAPERIES AND SHEERS

- A. Available Products: Subject to compliance with requirements, draperies and

curtains that may be incorporated in the Work include, but are not limited to, the products specified in each Drapery and Curtain Data Sheet at the end of this Section.

- B. Products: Subject to compliance with requirements, provide one of the products specified in each Drapery and Curtain Data Sheet.

## 2.2 FABRICATION

- A. Drapery shall extend from within 1/4 inch of ceiling or drapery track recess to within 1/2 inch of finished floor.
- B. Dimension and fabricate drapery so heading between pleats lies flat when drapery is fully extended.
- C. Fabricate draperies to hang parallel to wall at end of run. Pleats shall hang vertically.
- D. Draperies at wall returns shall be flat to wall. Casement and track shall not be exposed to view.
- E. Align patterns vertically and horizontally.
- F. Thread: Color of fabric sewn.
- G. Hems: Full double-folded and finished with blind stitch. Even and flat with no rack, roll, or wrinkle. Ends: Square with covered lead weights placed at seams and in bottom corner of each panel.
- H. Seams: Flat, without puckers. Overcast serge raw edges. Remove salvages. Seams shall fall within a fold.
  - 1. Horizontal seams are not acceptable.
  - 2. When less than 1/2 widths are used, place at edge of finished panel or at bracket return portion of rod.
- I. Lining: Secure at heading to prevent roll-up or separation from drapery.
- J. Identify each drapery with cloth label, attached at side return of each panel of pair, indicating location, finished width and length, and recommended cleaning procedures.

## 2.3 DRAPERY AND CURTAIN HARDWARE 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:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Kirsch.
  - 2. Silent Gliss.

## 2.4 DRAPERY AND CURTAIN HARDWARE, GENERAL

- A. Track: Extruded aluminum, slotted not more than 16 inches o.c. for mounting. Size track for span and weight of drapery or curtain indicated.
- B. Track Mounting: Provide manufacturer's standard mounting brackets or channels designed to support the weight of the track assembly and draperies plus force applied to operate draperies.
- C. Carriers: Manufacturer's standard, sized for span and weight of drapery or curtain indicated.
- D. Installation Fasteners: Not less than 2 fasteners per bracket, fabricated from metal noncorrosive to track hardware and adjoining construction and to support track and window treatment units under conditions of normal use.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine openings for suitable conditions where draperies, curtains, and track are to be installed.
- B. Do not proceed until unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Draperies and Tracks: Level, plumb, and secure. Drapery shall traverse without rubbing against track or trim. Drapery shall stack evenly when fully open and shall extend across opening with uniform appearance.

B. Provide unencumbered operation of window sash hardware.

### 3.3 ADJUSTING

Draperies: Hung, tied back for 48 hours to set pleats. Draperies shall hang without wrinkles.

END OF SECTION 12541

## SECTION 12690

## FLOOR MATS AND FRAMES

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

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

## 1.2 SUMMARY

- A. This Section includes: Recessed Floor Mat. Vinyl Link-Type Mat with frame.
- B. Related Sections: The following sections contain requirements that relate to this section: Division 3 sections for concrete Work, including forming, placing, and finishing concrete floor slabs.

## 1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each type of floor mat and frame 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 and frame, full-scale sections of typical installations, details of patterns or designs, anchors, and accessories. Coordinate shop drawing submittal with concrete work shop drawings.
- D. Samples for initial selection purposes in form of manufacturer's color charts consisting of actual sections of floor mat and frame materials, showing full range of colors, textures, finishes, and patterns available, for each type of floor mat and frame indicated.
- E. Samples for verification purposes in form of 12-inch-square assembled section of floor mat and frame members with selected tread surface showing each type of metal finish and color of exposed floor mat, frames, and accessories required. Where finishes involve normal color and texture variations, include sample sets showing full range of variations expected.
- F. Maintenance data in form of manufacturer's printed instructions for cleaning and

maintaining floor mat.

#### 1.4 PROJECT CONDITIONS

Field Measurements: Check actual blocked-out openings in floors by accurate field measurements before fabrication of frame and mat; show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of Work.

#### 1.5 QUALITY ASSURANCE

Single-Source Responsibility: Obtain floor mat and frame from one source from a single manufacturer.

#### 1.6 SEQUENCING AND SCHEDULING

Provide recesses in concrete work to receive frames. Defer frame installations until building enclosure is completed and related interior finish work is in progress.

### PART 2 - PRODUCTS

#### 2.1 AVAILABLE MANUFACTURERS

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:

- A. American Floor Products Co.
- B. Arden Architectural Specialties, Inc.
- C. Balco, Inc.
- D. Cactus Mat Mfg. Co.
- E. Construction Specialties, Inc.
- F. K.N. Crowder, Inc.
- G. Durable Mat Co.
- H. El-Do, Inc.

- I. Flexco Co.
- J. J.L. Industries
- K. Kadee Industries, Inc.
- L. Mats, Inc.
- M. R.C. Musson Rubber Co.
- N. Nuway Matting Systems, Inc.
- O. Pawling Corp., Standard Products Div.
- P. Reese Enterprises, Inc.
- Q. Tennessee Mat Co., Inc.
- R. Uscoa International Corp.
- S. U.S. Mat and Rubber Co., Inc.

## 2.2 MATERIALS

- A. General: Provide colors, patterns, and profiles of materials, including metals and metal finishes, as indicated on drawings or by this specification or, where not indicated, as selected by Contracting Officer from manufacturer's standard colors, patterns, and profiles.
- B. Recessed Mat Frame: Provide manufacturer's standard design, of size and style to fit floor mat type and match approved sample for recessed installation in floor, complete with corner pins or reinforcing.
  - 1. Provide frame of extruded aluminum, ASTM B 221, alloy 6063-T5. Coat surface of frame that will contact cementitious material with zinc chromate paint or manufacturer's standard protective coating.
  - 2. Provide 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 with pieces spliced together by means of straight connecting pins.
- C. Vinyl Link-Type Mat: Provide manufacturer's standard 3/8-inch- or 7/16-inch-thick reversible vinyl link mat of following design and construction, with vulcanized

edge-nosing trim and steel reinforced end trim.

1. Design: "Heelproof," close-weave pattern with openings between links not exceeding 1/8 inch wide by 1 inch long.
2. Link Rods: Stainless steel wire.

### 2.3 FABRICATION

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

### 3.1 INSTALLATION

Install recessed frame and mat to comply with manufacturer's instructions, at location indicated and with top of frame and mat in proper relationship to one another and to adjoining finished flooring. Set mat tops at height recommended by manufacturer for most effective cleaning action; coordinate top of mat surfaces with doors that swing across mat to provide underdoor clearance.

### 3.2 PROTECTION

Defer installation of floor mat until near time of Substantial Completion for project.

END OF SECTION 12690