

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Factory-finished, aluminum, narrow-slat Venetian blinds for Offices, Multi-Purpose Room, Visitor Center, Retail Shop and other secondary spaces.
- B. Related Sections: Gypsum Board: Section 09250.

1.02 REFERENCES

- A. The following standards are cited in this Section. They govern the work of this Section only to the extent specified in each citation.
- B. Aluminum Association (AA): Color and Quality Standards for Painted Aluminum Sheet.
- C. Federal Specifications (FS): AA-V-00200B Venetian Blinds.

1.03 SUBMITTALS

- A. Comply with Section 01300 requirements.
- B. Shop Drawings: Show size, location, clearances, and anchorage for each assembly.
- C. Product Data: Show materials, gauges, finishes, construction, and configurations of components and assemblies. Describe basic use and limitations of products.
- D. Installer Qualification Data:
 - 1. List installations of blinds comparable to those required for the Project. Give installation dates and describe equipment installed.
 - 2. List ten local service accounts by building name and building manager or Owner.
 - 3. Give location of closest office from which proposed blinds would be serviced.
 - 4. Give location of closest parts inventory for the proposed blinds.
- E. Operation and Maintenance Data: Comply with Section 01700*01730 requirements. Submit complete user operating instructions, maintenance instructions, and parts list for blinds. Clearly describe the extent of maintenance that may be done by the Owner without invalidating warranties.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Blinds shall be standard products of a manufacturer regularly engaged in producing blinds of the required kind and quality, with a ten-year minimum successful performance history. All blinds throughout the Project shall be by one manufacturer.
- B. Installer Qualifications: Blinds shall be installed by a manufacturer-approved and/or franchised, locally-based, installation and service agency capable of rendering complete service and providing rapid response to service calls.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Comply with Section 01600 requirements.

1.06 PROJECT CONDITIONS

- A. Environmental Conditions:

1. Work of finishing trades shall be completed in and near spaces where blinds are to be installed.
2. Work areas shall be clean. Air shall not be dust-laden prior to, during, or after blind installation. No dust raising activities shall be carried on in or near areas where blinds are to be installed.

- B. Field Measurements: Fabricate work to field dimensions where possible. Where field measurements cannot be made without delaying work, the Contractor shall provide guaranteed dimensions and coordinate work of affected trades/Sections to assure proper execution of adjoining work.

1.07 WARRANTY

- A. Furnish a written warranty, in a form satisfactory to the Owner, stating that all moving parts enclosed in blinds heads shall function properly, without maintenance, for two years following acceptance of the Work; and that all malfunctions and other defects in such hardware and its mounting, that occur during the warranty period, shall be corrected promptly, at no cost to the Owner.
- B. This warranty shall be in addition to, not in limitation of, other rights the Owner has under law or Contract Documents.

PART 2 - PRODUCTS

2.01 MANUFACTURED UNITS

- A. Blinds: 1" Sunflex (with 20mm tape spacing) by Hunter Douglas, Inc. or 1" Riviera Dustguard by Levelor Lorentzen, Inc., or Graber, division of Springs Industries, Inc: www.graberblinds.com, or Hunter Douglas Window Fashions: www.hunterdouglas.com, or approved equal, complying with FS. AA-V-00200 for Type II (1" Slat) Venetian Blinds and the following.
1. Head Channel: Made from 0.024" (min.) thick steel, 1" x 1-1/2" (nom.), with securely fastened 0.030" (min.) thick steel end braces that close channel ends. End braces shall have adjustable tabs that permit centering blinds in windows and prevent lateral movement after installation.
 2. Bottom Rail: Tubular shape, made from 0.024" (min.) thick steel, equipped with locked-on, flanged, thermoplastic end caps to protect jambs and stool.
 3. Slats: Aluminum, 0.008" (min.) thick before painting.
 4. Installation Brackets: Designed to permit easy removal of head channel. End brackets shall be made from 0.042" (min.) thick steel. They shall be equipped

- with snap-on cover plates. Intermediate brackets shall be made from 0.030" (min.) thick steel.
5. Tilt Rod Support and Drum: Support cradle shall be made from 0.040" (min.) thick steel, with bearings for smooth tilt rod operation. Drum shall be made from 0.030" (min.) thick steel. Ladder connection holes shall have rolled edges to minimize cord wear.
 6. Lift Cord Lock: Easily engaged and disengaged, free of gripper teeth, designed for minimum cord wear. It shall be mounted on the right side of blinds.
 7. Tilter: Precision worm gear construction with automatic disengagement to eliminate overdrive; factory lubricated and completely encased. It shall be mounted on the left side of blinds.
 8. Tilting Rod: Solid steel square bar that limits torsional deflection to 6 degrees in a 30" length under an applied torque of one foot-pound.
 9. Tilting Wand: Clear, transparent polymer, 3/8" dia.
 10. Lift Cord: Braided polyester over a rayon core, securely anchored to bottom rail on 45" (max.) centers. Cord shall be long enough for convenient operation, equalized for proper operation, and be equipped with a plastic tassel.
 11. Slat Support Ladders: Braided polyester yarn with 31 rungs per 2'-0" length. Ladders shall be held in place by metal barbs, securely clinched to all four ends of each ladder, that lock into holes of bottom rails and tilting drums. Ladders shall be easily removable for maintenance or replacement.
 12. Metal Finishes: Dustshield Steel components shall be electro-galvanized and exposed parts shall be treated for paint adhesion. Aluminum slats shall be prepared for painting by a uniformly applied, chemical conversion coat (AA designation C40) or anodic coating (AA designation A11). Exposed steel and aluminum shall be finished with oven-cured polyester enamel, minimum 1 DMT in selected standard color.
 13. Other Finishes: Cords and ladders shall be colorfast-dyed to match finished metalwork. Cord tassels, bottom rail end caps, sleeves, grommets, and other exposed accessories shall match finished metal work.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Comply with Section 01600 requirements.
- B. Examine Project for conditions that affect work. Do not begin installation until unsatisfactory conditions are corrected. Beginning installation implies acceptance of conditions found. Defects caused by unsatisfactory conditions or untimely installation shall be corrected at no cost to the Owner.

3.02 INSTALLATION

- A. Sizes and Clearances:

1. Before installing blinds, verify window and opening dimensions (scheduled sizes are nominal). Do not force oversized work into place or field fabricate work where it shows in completed installations and/or impairs blind operation. Replace poorly fitting blinds with new blinds that are factory-fabricated to satisfy Project conditions.
2. Clearances: Slats shall end within 1/4" of window jambs or adjacent walls or jamb liners, whichever is farther. Blinds mounted above stools shall come to stools when fully lowered. Blinds that pass stools or terminal horizontal mullions shall lap them 1-1/2" where not otherwise shown.

B. Anchorage:

1. Anchor blinds securely in place, without scratching or otherwise damaging finished surfaces and with all evidence of drilling, cutting, and anchoring concealed by installed blinds.
2. Provide intermediate anchor brackets for blinds over 60" wide or over 50 square feet in area, and as required to reduce concentrated loads on mounting surfaces.
3. Anchors: Cadmium plated, tapping sheet metal screws or toggle bolts for anchorage to *metal window frames*blind pocket blocking/reinforcement*.

3.03 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust blinds so that they operate smoothly, without binding.
- B. Correct noncomplying and damaged work. Replace work that cannot be satisfactorily field-corrected.
- C. Clean blinds of finger marks and other soil. Protect them from damage and abuse.

3.04 SCHEDULE

- A. Assume (1) blind set for each window in every office, multi-purpose room, retail space, visitor center and all other secondary space. Blinds NOT required at windows in public spaces, exhibition area, corridors, lobbies or interior sidelights or clerestory.

END OF SECTION 12510

PART 1 – GENERAL

1.01 DESCRIPTION:

- A. Furnish all labor, materials, tools, equipment and services necessary for and reasonably incidental to complete the entrance mat work as shown on the drawings or specified.

1.02 QUALITY ASSURANCE:

- A. Manufacturer: Provide entrance mats and accessories by a single manufacturer for the entire project.

1.03 SUBMITTALS:

- A. Produce Data: Submit manufacturer's specifications and installation instructions for each type of entrance mat. Include methods of installation of each type of substrate.
- B. Samples: Submit samples for each type and color of exposed entrance mat, frames and accessories required. Provide 12" square samples of mat materials and 12" lengths of frame members.
- C. Shop Drawings: Submit shop drawings for entrance mats. Include full-scale sections of typical installations. Show details of patterns or designs, anchors, and accessories.
- D. Maintenance Data: Submit manufacturer's printed instructions for cleaning, drying, maintaining and re-handling of removal entrance mat units.

1.04 SEQUENCING/SCHEDULING:

- A. General: Except as otherwise indicated herein, sequencing or scheduling for performance of work of this section in relation with other work is Contractor's option.
1. Install mat frames integrally with principal pour of concrete floor system. Locate, align and level frame members accurately, but recess in-full concrete by at least 1.0" for placement of concrete topping promptly after principal pour has hardened.
 2. Protection: Upon completion of frame installations and concrete work, provide temporary filler of plywood or fiberboard in mat recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of substantial completion.
 3. Delay installation of mats, foot grilles and other finish flooring units until near time of substantial completion for project.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

- A. Manufacturer: Subject to compliance with requirements, provide products of one of the following:
1. Balco, Inc. ; Wichita, KS

2. Construction Specialties, Inc. ; Muncy, PA
3. Reese Enterprises, Inc. : Rosemont, MN

2.02 MATERIALS AND FABRICATION:

- A. General: Provide colors/profiles or materials, including metals and metal finishes, as indicated on drawings or by this specification or, where not indicated, as selected by Architect from manufacturer's standard colors/patterns/profiles.
1. Shop fabricate units of entrance mat work to greatest extent possible, in sizes as indicated. Where not otherwise indicated, provide single unit for each 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 prior to shop fabrication.
- B. Entrance Mat Frames: Provide manufacturer's heavy duty design, of size and style to mate with insert type and adjacent finish floor or wall construction, for permanent recessed installation in subfloor; complete with corner pins or reinforcing, and installation anchorages.
1. Provide frames of extruded 6063-T5 alloy aluminum. Coat surface of frame which 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.
 3. Basis of design: Reese No. 540
- B. Rigid-Type Foot Grilles: Provide manufacturer's heavy duty extruded aluminum floor grid of top-surfaced tread rails and spacer cross bars, 6063-T5 or 6061-T6 alloy and mill finish, 1-5/16" wide continuous treads spaced 1-1/2" o.c. (3/16" openings), top surface as indicated, 1-5/8" maximum overall thickness of grid system.
1. Crossrails: Reese No. 423 at 3'-0" o.c.
 2. Top Surface: Fusion-bonded level-cut-pile nylon carpet insert; Dupont "Antron III" filament, 1/4" high, 28 oz. Per sq. yd. Color as selected from manufacturer's standards.
 3. Level Bed Applications: Provide manufacturer's standard vinyl cushion support system.
 4. Reese No. 546 Carpet Tread mat.

PART 3 – EXECUTION

3.01 INSTALLATION:

- A. Install recessed frames and entrance mats to comply with manufacturer's instructions, at locations indicated and with top of frames and mats in proper relationship to one another and to adjoining finished flooring. Set mat tops at proper height for most effective cleaning action;

coordinate top of mat surfaces with doors that swing across mats, to provide under door clearance.

1. Anchor fixed surface-type frame members to floor with devices spaced as recommended as manufacture.

END OF SECTION 12670

