

SECTION 12 21 00

WINDOW BLINDS

08/10

PART 1 GENERAL

1.1 DESCRIPTION

A. Woven fabric shades and venetian blinds are specified in this section. Window shades shall be furnished complete, including brackets, fittings and hardware.

1.2 RELATED WORK

A. Color of shade woven fabric and color of exposed parts of venetian blinds, (including tapes and cords): Section 09 06 00, SCHEDULE FOR FINISHES.

1.3 QUALITY CONTROL

A. Manufacturer's Qualification: Venetian blind manufacturer shall provide evidence that the manufacture of blinds are a major product, and that the blinds have performed satisfactorily on similar installations.

1.4 SUBMITTALS

A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Samples:

1. Woven fabric shade, each type, 600 mm (24 inch) square, including cord and ring, showing color, finish and texture.
2. Venetian blind slats, 300 mm (12 inches) long, including cord and tape, showing color and finish.

C. Manufacturer's literature and data; showing details of construction and hardware for:

Woven fabric and window shades
Venetian blinds

1.5 APPLICABLE PUBLICATIONS

A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced to in the text by the basic designation only.

B. Federal Specifications (Fed. Spec.):

AA-V-00200BVenetian Blinds, Shades, Roller, Window, Roller, Slat, Cord, and Accessories

C. American Society for Testing and Materials (ASTM):

A167-99 (R2004).....Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip

B221/B221M-07Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes

D635-06.....Rate of Burning and/or Extent and Time of

Burning of Self-Supporting Plastics in a Horizontal Position
D648-07.....Deflection Temperature of Plastics Under
Flexural Load in the Edgewise Position
D1784 Rev.A-06.....Rigid Poly (Vinyl Chloride) (PVC)
Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

PART 2 PRODUCTS

2.1 MATERIALS

- A. Shade Woven fabric: translucent.
- B. Staples (For Woven fabric Window Shades): Nonferrous metal or zinc-coated steel.
- C. Stainless Steel: ASTM A167
- D. Cords for Venetian Blinds: No. 4 braided nylon having not less than 175 pounds breaking strength.
- E. Extruded Aluminum: ASTM B221/B221M.

2.2 VENETIAN BLINDS

- A. Fed. Spec. AA-V-00200, Type II, 25 mm (one inch slates) fabricated of aluminum. Pre-production sample is not required.

2.3 FASTENINGS

- A. Zinc-coated or cadmium plated metal, aluminum or stainless steel fastenings of proper length and type. Except as otherwise specified, fastenings for use with various structural materials shall be as follows:

Type of Fastening	Structural Material
Wood screw	Wood
Tap screw	Metal
Case-hardened, self-tapping screw	Sheet Metal
Screw or bolt in expansion shields	Solid Masonry
Toggle bolts	Hollow blocks, wallboard and plaster

2.4 FABRICATION

- A. Fabricate woven fabric shades and venetian blinds vertical blinds to fit measurements of finished openings obtained at site.
- B. Woven Fabric Window Shades: Rolling type, constructed of shade woven fabric mounted on rollers. Shade woven fabric shall have plain sides, and with hem at bottom to accommodate wood slat. Separate shades are required for each individual sash within opening. Length of shades shall exceed height of window approximately 300 mm (12 inches) measured from head to sill, in addition to material required to make-up hem:

1. Provide rollers with spindles, nylon bearings, tempered steel springs, and all other related accessories required for positive action. Provide rollers of diameter recommended by shade manufacturer. Staple shade woven fabric to wood rollers to prevent wrinkling or folding, and on line parallel to axis of rollers so that shade will hang plumb. Space staples not over 90 mm (3-1/2 inches) on centers. Use of tacks is prohibited.
2. Wood slats shall be smooth, tapered, and inserted in the bottom hem of the shade woven fabric.
3. Provide continuous loop metal bead cord to raise and lower woven shade.

C. Venetian Blinds: Venetian blinds shall have 25 mm (one inch) width horizontal slats positioned within ladder tapes. Multiple blinds in openings are to be of same type and divided at mullions.

1. Head-rails shall fully enclose operating mechanism on three sides and ends.
2. Wood slats shall be smooth, tapered, and inserted in the bottom hem of the shade woven fabric.
3. Finish concealed metal work of head-rails including concealed mechanism, with one shop coat of paint. Do not paint parts that have non-rusting finish, or parts where motion of friction occurs.
4. Provide plastic wand for control of slat tilting. Wand must extend to 5' - 0" a.f.f.

PART 3 EXECUTION

3.1 INSTALLATION

A. Woven Fabric Window Shades: Mount window shades inside window opening. Provide extension face brackets where necessary at mullions.

1. Locate rollers in level position as high as practicable at heads of window to prevent infiltration of light over rollers.
2. Where extension brackets are necessary, on mullions or elsewhere, for alignment of shades, provide metal lugs, and rigidly anchor lugs and brackets.
3. Place brackets and rollers so that shades will not interfere with window and screen hardware.
4. Shade installation methods not specifically described, are subject to approval of Resident Engineer.

B. Venetian Blinds: Support blinds in level position by brackets and intermediate supports that will permit easy removal and replacement of units without damage to blind or adjacent surfaces. Provide at least two fasteners for each bracket or other support.

1. Install blinds between jambs on window openings with steel trim. Mount brackets in trim reveal, flush with face of trim and secure with steel screws.

-- End of Section --