

**SECTION 12 24 00  
WINDOW SHADES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

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 exposed parts of venetian blinds, (including tapes and cords) and color of vertical blinds: Section 09 06 00, SCHEDULE FOR FINISHES.

**1.3 QUALITY CONTROL**

Manufacturer's Qualification: Venetian blind and vertical 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. Each type, 600 mm (24 inch) square, including cord and ring, showing color, finish and texture.
  - 2. Vertical blind slats, 300 mm (12 inches) long, including chain and supporting channels, showing color and finish.
  - 3. 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:
  - Vertical blinds
  - 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-00200B.....Venetian Blinds, Shade, Roller, Window, Roller, Slat, Cord, and Accessories
- C. American Society for Testing and Materials (ASTM):
  - A167-99(R2009).....Stainless and heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip

- B221/B221M-08.....Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
- D635-10.....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
- D1784-08.....Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Stainless Steel: ASTM A167
- B. Cords for Venetian Blinds: No. 4 braided nylon or No. 4-1/2 braided cotton having not less than 175 pounds breaking strength.
- C. Extruded Aluminum: ASTM B221/B221M.

**2.2 VENETIAN BLINDS**

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

**2.3 FASTENINGS**

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 venetian blinds or vertical blinds to fit measurements of finished openings obtained at site.

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. Bottom rails shall be fully enclosed to prevent contact of tapes and sill at underside.
4. 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.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

A. 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 on trim reveal, flush with face of trim and secure with steel screws.
3. Mount brackets and intermediate supports of lobby blinds on face of trim members, and secure with stainless steel standard tap or thread-forming machine screws, or by cadmium-plated molley or toggle bolts. Screws and bolts shall penetrate through and lock behind steel sub-frame.
4. Where blinds abut glass partitions of Vestibules, extend head rails to trim at head of partition frame with slats sufficiently long to clear transom bars.
5. Provide one brush (for each 1 to 50 blind) of an approved type, suitable for cleaning blinds.

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