

Division 12

Section 12A

Venetian Blinds

	<u>Page No.</u>
1.0 Scope	12A-1
2.0 General	12A-1
2.1 Codes and Standards	12A-1
3.0 Detailed Requirements	12A-1
3.1 Type	12A-1
3.2 Materials	12A-1
4.0 Installation	12A-4
5.0 Testing	12A-4
6.0 Information to be Submitted	12A-4
6.1 Drawings	12A-4

DIVISION 12

SECTION 12A

VENETIAN BLINDS

1.0 SCOPE

This Specification Section includes the furnishing and installation of venetian blinds at all exterior windows of building all as indicated on the drawings and as described in the specification..

2.0 GENERAL

2.1 Codes and Standards

The Work shall conform to the latest edition and latest addenda thereto, as-of date of award.,. of the following codes and standards.

.1 United States Testing Company

La-5926 Light Tightness

.2 Federal Specifications

AA-V-200 Venetian Blinds

3.0 DETAILED REQUIREMENTS

3.1 Type

Venetian blinds shall have horizontal aluminum slats resting on braided slat supports (ladders). The operating hardware shall be enclosed in a metal head. It shall be possible to tilt the slats to any horizontal angle by means of a clear nylon vertical rod and to raise and lower the slats by means of light cords. One blind shall be used for each window. Blinds shall be wide, enough to overlap window frames. Length of blinds shall permit bottom rail to reach window sill level when blinds are in completely closed position.

3.2 Materials

3.2.1 Enclosed Metal Head

Metal head shall be minimum .025 inch thick steel

treated for corrosion resistance. It shall have a high temperature baked enamel or plastic type coating and shall be formed after coating. It shall be-"U" shaped, maximum 1 inch high by 1-z inches wide with flanged edges at top. All hardware shall be protective plated and shall include a lift cord separator. Tilter and cradles shall be machineclinched into head to assure perfect alignment. The head channel shall have two end braces with adjusting tabs to add rigidity, to center blind in window, and insure a safe installation.

3.2.2 Metal Bottom Rail

Bottom rail shall be minimum .031 inch thick steel treated for corrosion resistance. It shall have a high temperature baked enamel or plastic type coating and shall be formed after coating. It shall be shaped to impart stiffness and accommodate its accessories. It shall be provided with pierced holes for the braided ladders and cord and molded plastic clamps to cover cord and ladder holes. End caps shaped to offer maximum protection to braided ladders and window sill shall also be provided. Pins shall be provided in end caps for a snap fit into hold down brackets which also shall be provided.

3.2.3 Slats

Slats shall be fabricated of virgin aluminum, alloyed to insure maximum physical properties and resistance against corrosion. Slats shall be one inch wide. They shall be .010 inch thick before painting, plus or minus .0005 inch. After painting, thickness shall be .011 inch plus or minus .0005. Slats shall have a catalytic under coat strongly bonded to the aluminum strip and an enamel or plastic type finish coat applied under heavy pressure and baked at high temperature. Color of slats shall be selected by Engineer from manufacturers standard colors.

3.2.4 Brackets

Brackets shall be minimum .042 inch thick steel treated for corrosion resistance. Brackets shall have finish to match metal head and shall have snap-on type metal covers. A pair of brackets shall hold the head box securely in place.

3.2.5 Drums and Cradles

Blinds shall have a cradle and drum for each braided

ladder. The cradle shall provide bearing and support for the tilt rod and center the drum over the ladder hole. The cradle shall have three holes with rolled edges to guide ladders and cord through bottom of head. The drum shall be minimum .031 inches thick steel with a separate hole with rolled edge to anchor each of the two top ladder ends.

3.2.6 Cord Lock

Blinds shall be provided with a cord lock securely attached to head. Cord lock shall lock all cords to hold blind at any height when the lift cord is released at the proper position. Cord lock shall have "crashproof feature" to lock blind upon release of cord.

3.2.7 Tilter and Tilt Control

Blinds shall be provided with tilting mechanism enclosed in head. All moving parts and power drive shall be made of compatible, dissimilar materials, (nylon and steel for shaft and bearings; nylon and metal for worm and gear). It shall be designed to hold the slats at any angle so that vibration or movement of ladders and slats will not drive the tilter. The slats shall be tilted to desired angle by turning a clear nylon rod with hexagonal cross section (approximately 5/16 inch across flats) of sufficient length for ease of operation. Nylon rod shall hang vertically by its own weight and swivel so it can be operated from any convenient position. Rod shall be detachable by raising the locking collar.

3.2.8 Tilt Rod

Tilt rod shall be solid steel treated for corrosion resistance. It shall be "D" shaped to correspond to openings in drums and gear for instant tilting response. Average cross-sectional dimension shall be approximately 1/8 inch to limit torsional deflection to six degrees in 30 inch length with an applied torque of one foot-pound.

3.2.9 Slat Supports (Ladders)

Slat supports (ladders) shall be braided of polyester yarn, the vertical component of which shall be not less than .045 inch diameter, nor greater than .066 inch diameter for maximum strength and flexibility with minimum stretch. The horizontal component, or rungs, shall consist of not less than four (4) threads. Braiding shall be accurate to assure

proper control and adequate overlap of seats. There shall be 15 rungs per foot equally spaced, along the ladders which shall be 1-1/16 inch long and shall provide proper support. A metal barb shall be securely and accurately machineclinched at all four ends of each braided ladder to lock in holes of drum and bottom rail. It shall be possible to detach and attach ladders. The distance between each end of slats shall not exceed 6 inches. The distance between braided ladders shall not exceed 20 inches.

3.2.10 Lift Cord

Lift cord shall be of braided polyester, #2-z size with rayon core, or approved equal, and of sufficient length to properly control the raising and lowering of the blind with minimum stretch and abrasion. It shall be possible to detach or attach cords. The lift cord shall be equipped with a pull tassel and cord ends shall be heat sealed.

4.0 INSTALLATION

Blinds shall be fastened to top inner face of window sash in strict accordance with manufacturers instructions. After installation blinds shall be cleaned and shall be left free from dirt, finger marks and imperfections of any kind.

5.0 TESTING

No additional tests beyond those normally employed either in manufacturing, installation, or construction processes or as called for by the specified codes and standards are required under this article.

6.0 INFORMATION TO BE SUBMITTED

The following information shall be submitted 30 days after award of contract.

6.1 Drawings

Drawings and/or manufacturers catalog cuts of venetian blinds shall be submitted for Engineer's approval. Materials shall not be delivered to the site until after the drawings have been approved.