

SECTION 12 21 16
VERTICAL LOUVER BLINDS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division-1 specification section, apply to work of this section.

1.2 SECTION INCLUDES

- A. Vertical louvers
- B. Track system

1.3 REFERENCES

- A. NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films
- B. CPSC - U.S. Consumer Product Safety Commission
- C. WCSC – Window Covering Safety Council

1.4 SUBMITTALS

- A. Manufacturer's descriptive literature indicating materials, finishes, construction and installation instructions.
- B. Manufacturer's certification that product meets requirements specified.
- C. Manufacturer's recommendation for the maintenance and cleaning.
- D. Sample: One full size unit of each type specified furnished complete with required components, mounting and associated hardware, instructions, and warranty.

1.5 QUALITY ASSURANCE

- A. Installer shall have 5-years of experience in installing vertical louver blinds.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver all products in manufacturer's original packaging.
- B. Handle and store all products to prevent damage to materials, finishes, and operating mechanisms.

1.7 WARRANTY

- A. Blind units shall include a lifetime warranty.

PART 2 PRODUCTS

2.1 LOUVERS

- A. PVC: Extruded 100% Geon[®] Vinyl 0.030" maximum thick, flat, and curved louvers beaded on each side to 0.050" nominal.
- B. Louver width shall be 3½"; standard spacing allows an overlap of not less than 3/8" and stack 7/16" apart.

2.2 MATERIALS

- A. Provide gear reduced track head rails with anodized aluminum channel.
- B. Tilt chain shall be #10 qualified nickel-plated brass enclosed end cap.
- C. Spacer links shall be stainless steel.
- D. Tilt rod shall be heavy-duty extruded aluminum 0.24" diameter with offset-notch cross-section and three points of support.
- E. Carrier bodies shall be heavy-duty precision-molded, with wheels, worm and spur gears of thermal plastic.
 - 1. Carriers traverse on wheels of thermal plastic mounted in a protected raceway inside the channel.

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2. Carriers shall move on wheels except lead carrier, which has an elongated bearing surface.
- F. Louver support shall be solid molded thermal plastic hook suspended from center of carrier body.
 1. Set a rotation limit of 180° with positive stops to prevent louver damage.
 2. Hook design shall allow easy louver installation and removal.
- G. Traversing shall be side, center, or off center.
 1. Control shall be lock-knit polyester cord, stretch resistant, non-fraying and lint free.
 2. End caps and traversing mechanism lead cord through carrier body, away from gears.
 3. Note: Provide all chords without "loops" as dictated by the U.S. Consumer Product Safety Commission Report on "Children Can Strangle in Window Covering Chords".
- H. Rotate to 180° through sprocket with 32-1 mechanical advantage, and gear-reduced control.
 1. Operate with bead chain with stops to prevent complete rotation.

PART 3 EXECUTION

3.1 INSPECTION

- A. Installer shall inspect site, approve mounting surfaces, installation conditions and field measurement.

3.2 INSTALLATION

- A. Install only in completely enclosed and dry building.
- B. Installation shall comply with manufacturer's specifications, standards, and procedures.
 1. Do not install blinds such that they might interfere with required emergency escape windows and fire department access windows where they occur.
- C. Provide adequate clearance for unencumbered operation.
- D. Clean installation and leave work area clean and free of debris.

END OF SECTION