

SECTION 12 21 00 – WINDOW BLINDS

PART 1: GENERAL

1.1 SCOPE

- A. Furnish and install 1” Metal Blinds in accordance with specifications, drawings, and contract documents.
- B. Related work specified elsewhere.

1.2 QUALITY ASSURANCE

- A. Installer’s qualifications:
 - 1. The installer shall be approved by Timber Blinds.
 - 2. The installer shall be qualified to install the product specified, as demonstrated by prior experience.

1.3 SUBMITTALS

- A. Product information: Submit Timber Blinds product literature and installation instructions.
- B. Shop drawings: Indicate field-measured dimensions of opening which are to receive blinds, details on mounting surface and sill conditions, and details of corners and conditions of adjacent blinds.
- C. Color samples: Submit a sample of each type and color of material specified.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping
 - 1. Materials shall be delivered to the Project in Timber Blinds original unopened packaging with labels intact.
- B. Storage:
 - 1. Materials shall be stored in a clean area which is free of corrosive fumes, dust, and away from construction activities.
 - 2. Materials shall be stacked horizontally using plastic or wood shims such that drainage and ventilation are provided for, and such that water cannot accumulate in, about or upon the containers.

1.5 PROJECT/SITE CONDITIONS (BEFORE PRODUCT INSTALLATION BEGINS)

- 1. Roof must be tight, windows and frames installed and glazed, and interior doors hung.
- 2. Wet work including concrete, masonry, plaster, stucco, terrazzo, sheetrock, spackling and taping (including sanding) shall be complete and dry.
- 3. Ceilings, window pockets, electrical, and mechanical work above the product shall be complete.

1.6 WARRANTY

- 1. Limited Lifetime Warranty: Timber Blinds shall repair or replace for the life of the blind, at its option, without charge, any part found defective in workmanship or material as long as the blind remains in the same window for which it was purchased.

PART 2: PRODUCTS

2.1 MANUFACTURER AND PRODUCT DESCRIPTION:

1. Acceptable product: Timber Blind 1" Premium Professional Series.
 - a. Substitutions: In accordance with Section 01 31 00.
2. Materials:
 - a. Head rail shall be of .024" thick sheet metal, 1" high x 1½" wide with a U shaped channel. Head rail shall be a valance-free design and shall be coated with a baked on finish. All headrail detailing shall be high-density polyethylene. All hardware shall be enclosed in the head rail.
 - b. Tilter mechanism shall be of a worm and gear type enclosed in acetyl housing. Tilter shaft shall be clear polycarbonate and the gear shall be nylon. Tilter shall be a snap in component.
 - c. Tilt Wand shall be solid, clear, transparent polymer with a round cross section 5/16" in diameter. The tilt wand mechanism shall exit the bottom of the headrail via a U-shaped black or bright metal-plated steel link. The tilt wand end contains a split eye machining detail which facilitates attachment and removal of the wand to the headrail.
 - d. Cord Lock shall be snap in design and shall be securely attached to the head rail. It shall be a crash-proof type with sufficient sensitivity to lock slats at desired height upon release of cords. Cord separators shall prevent cords from twisting or tangling.
 - e. Drum and cradle shall be provided for each ladder.
 - 1). Drums shall be patented one piece nylon design. Snap lock cover retains ladder tape. All points where ladder contacts drum have smooth edges to prevent damage.
 - 2). Cradles shall provide bearing support for the tilt rod, thus preventing the weight of the blind from being transferred to the tilter. Cradles shall center drums over ladder openings.
 - f. Tilt rod shall be electro-zinc plated cold rolled steel measuring ¼" across its points.
 - g. Installation Brackets shall be a one-piece, .032" zinc-plated spring steel designed to minimize light gaps. A rivet-hinged locking front cover shall be incorporated for safety.
 - h. Intermediate brackets shall be of the same design as installation brackets. They shall be installed with blinds over 60" wide. Maximum spacing for intermediate brackets is 48". Brackets shall be supplied as required.
 - i. Ladders (slat supports) shall be braided polyester yard, designed for maximum flexibility combined with minimum stretch and tensile strength of not less than 50 lbs. per cable. Horizontal components (rungs) shall consist of not less than two crossed cables inter-braided with vertical components. Ladder shall support slats without visible distortion. Distance between slats shall not exceed 21.5mm. Distance between ladders will not exceed 22". Distance between end ladder and end of slat will not exceed 6".
 - j. Slats shall be of virgin aluminum alloy. Aluminum alloy shall be tempered to optimize tensile and yield strength for superior slat strength, resiliency and corrosion resistance. Slats shall be nominally 1" wide and the thickness of the slats shall be nominally .006". Slat thickness and ladder support distances shall prevent visible sag or bow after continued use indoors. Slats shall be:

- 1). Non-perforated.
- k. Bottom rail shall be C-shaped, .028" thick electro-zinc coated steel, painted with vinyl primer and baked polyester enamel finish coat. Bottom rail shall be roll formed with grooves to receive dust cover. Molded end caps shall provide hold-down capability designed to prevent bottom bar sway on doors or in windy exposures.
- l. Lift Cord shall be braided of high strength, 1.4mm dia. polyester fiber with a high tenacity polyester core, 34 picks per inch, 16 carrier smooth braids, and shall be flexible, have minimum stretch, maximum abrasion resistance characteristics, and a minimum breaking strength of 130lbs. Cord shall be of sufficient length equalized to properly control raising and lowering of blinds and spaced not over 46" between cords.
- m. Lift Cord Tassel shall allow for field adjustments of lift cord length.
- n. Color of blind shall be selected from Timber Blinds 1" Professional Series color deck.
- o. Options shall include:
 - 1). Cutouts.
 - 2). End Mount Brackets.
 - 3). Extension Brackets.
 - 4). Hold-Down Brackets.
 - 5). Multiple Blinds on 1 Headrail.

PART 3: EXECUTION

3.1 INSPECTION

- A. Window treatment subcontractor shall be responsible for inspection of site, field measurements, and approval of mounting surfaces and installation conditions.
- B. Subcontractor shall verify that site is free of conditions that interfere with blind installation and operation, and shall begin installation only when any unsatisfactory conditions have been rectified.

3.2 INSTALLATION

- A. Installation shall comply with manufacturer specification, standards and procedures.
- B. Provide support brackets as per manufacturer installation instructions.
- C. See installation instructions packaged with blinds for more installation details.
- D. Provide adequate clearance to permit unencumbered operation of blind and hardware.
- E. Demonstrate blinds to be in uniform and smooth working order.

3.3 CLEANING

- A. Clean soiled blinds with mild soap solution only. Do not use cleaning methods involving heat, bleach, abrasives, or solvents. Do not use window cleaner or cloths with paper content.
- B. Ensure proper drying following cleaning by providing adequate ventilation.

END OF SECTION 12 21 00