
TimberBlindMetroShade

Motorized Roller Shades

PART 1 – GENERAL

1.1 SCOPE

- A. SUPPLIER: Furnish and install Motorized Roller Shades
- B. RELATED WORK SPECIFIED ELSEWHERE:
 - 1) Section 06100: Rough Carpentry
 - 2) Section 08520: Aluminum Windows

1.2 SUBMITTALS

- A. PRODUCT DATA: Manufacturer's descriptive literature shall be submitted indicating materials, finishes, construction & installation instructions, and verifying that product meets requirements specified. Manufacturer's recommendations for maintenance and cleaning shall be included.
- B. DRAWINGS AND DIAGRAMS: Wiring diagrams of any motorized components or units, working and assembly drawings shall be supplied as requested.
- C. SAMPLE: Responsible contracting officer or agent shall supply one sample shade of each type specified in this contract for approval. Supplied units shall be furnished complete with all required components, mounting hardware, instructions, and warranty.

1.3 QUALITY ASSURANCE

- A. SUPPLIER: Manufacturer, subsidiary, or licensed agent shall be approved to supply the products specified, and to honor any claims against product presented in accordance with warranty.
- B. INSTALLER: Installer or agent shall be qualified to install specified products by prior experience, demonstrated performance, and acceptance of requirements of manufacturer, subsidiary, or licensed agent. Installer shall be responsible for an acceptable installation.
- C. UNIFORMITY: Provide Motorized Roller Shades of only one manufacturer for entire project.

1.4 DELIVERY STORAGE AND HANDLING

- A. Product shall be delivered to site in manufacturer's original packaging.
- B. Product shall be handled and stored to prevent damage to materials, finished, and operating mechanisms.

1.5 PROJECT/SITE CONDITIONS

- A. Prior to shade installation, building shall be enclosed; windows, frames, and sills shall be installed and glazed.
- B. Wet work shall be complete and dry.
- C. Ceilings, window pockets, electrical, and mechanical work above window covering shall be complete.

1.6 WARRANTY

- A. 5 year Limited Warranty
- B. TimberBlindMetroShade warrants the product against original defects in materials or workmanship for 5 years from the date of purchase/install. TimberBlindMetroShade does not warrant damage due to accidents, misuse, abuse, improper installation, alteration, or improper cleaning. Detailed specifics of the warranty are available upon request.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

- A. TimberBlindMetroShade, 1400 Lavon Dr. McKinney, Texas 75069; or architect approved equivalent.
- B. Product substitutions must be approved by architect minimum of 30 days prior to close of bid.

2.2 MOTORIZED ROLLER SHADES

- A. PRODUCT: TimberBlindMetroShade Motorized Roller Shades
- B. MATERIALS:

- 1) FABRICS: Inherently anti-static, flame retardant, fade and stain resistant, light filtering, room darkening, & blackout fabrics providing 0% - 15% openness factors. Fabric weights to range between 6.00 oz/sq.yd. – 20.70 oz/sq.yd containing fiberglass, PVC, polyester, acrylic, vinyl laminates, cotton, & vinyl coatings. Finish selected by architect from manufacturer's available contract colors.
- 2) MOTORS: Shall be 4-10Nm with speeds of 30-38 RPM and lifting capacities of 32 - 80 lbs. Each motor shall be equipped with a thermal overload protector. Internal limits provide consistent upper and lower shade positions. Motors are UL approved and available in 110V AC or 220V AC.
- 3) ROLLER: Tube shall be 55mm to 85 mm extruded aluminum, utilizing a fabric-mounting spline design to allow for trouble-free fabric attachment and exact alignment.
- 4) IDLER: Heat stabilized fiber reinforced plastic gear with a galvanized steel shaft for Wear resistance and smooth operation.
- 5) HEMBAR: Extruded aluminum flat bar, heat sealed and completely enclosed into a 1/2" pocket. Thicker fabrics may require external hembar.
- 6) MOUNTING HARDWARE: Installation brackets shall be galvanized steel and can accommodate overhead, side and face mounting. Optional dual shade brackets shall hold two shades in one bracket assembly. Coupled shades shall be connected with a linking bracket mechanism.
- 7) ADDITIONAL OPTIONS AVAILABLE: Fascia, Back plate, Side Channels, Sill Channels, Fabric Wrapped Hembar, Dual Shades, Coupled Shades, Extruded Pockets, Reverse Roll.

2.3 FABRICATION

- A. Blind measurements shall be accurate to within $\pm 1/8$ " according to specifications established by TimberBlindMetroShade engineering standards.

2.4 CONTROLS

- A. CONTROL SYSTEM: Shall be adaptable to conform to all requirements of the owner on both installation and in the future.
- B. CONTROL INPUTS: Shall vary, depending on the application and purpose. The switching device to activate the system will be either a switch for hardwire control, single or multi-channel radio control or IR control. Controls can be integrated with home automation or building management systems utilizing commonly used applications such as Serial – RS232 or RS485, Dry Contacts or Voltage Triggers.
- C. AUTOMATIC INPUTS: Shall be generated from a variety of controls, including: Sun Sensors, Wind Sensors and Timers. Automated inputs have the capability to be over-ridden by either local controls or group controls.

PART 3 – EXECUTION

3.1 INSPECTION

- A. Installer shall be responsible for inspection of jobsite, approval of mounting surfaces, verification of field measurements and installation conditions. Installation shall commence when satisfactory conditions are met.

3.2 INSTALLATION

- A. Install blinds in accordance with manufacturer's instructions including recommended support brackets and fasteners.
- B. Install blinds with adequate clearance to permit smooth operation of the blinds. Demonstrate blinds to be in smooth, uniform, working order.

3.3 MAINTENANCE AND CLEANING

- A. Clean blinds with mild soap and water only. Do not use cleaning methods involving heat, bleach, abrasives or solvents. Do not use window cloths with paper content. Use of these methods will void the warranty.