

SECTION 12 24 00 – WINDOW SHADES

PART 1: GENERAL

1.1 SUMMARY

A. Scope

1. This specification covers the provision of manual roller shades including all systems related support and installation hardware and materials in accordance with the shade manufacturer's specifications as specified in locations indicated on the architectural plans.

1.2 TURNKEY RESPONSIBILITY FOR MANUAL ROLLER SHADE SYSTEMS

- A. To ensure control of responsibility for satisfactory performance and installation of the manual roller shade systems, the design, engineering and installation shall be assigned to a single manufacturer and his authorized dealer/installer.
- B. The base building contractor (main contractor) shall provide and coordinate. The following items, with the window shade contractor/installer, are for all window shade systems:
 1. Shade pockets recessed into ceiling

1.3 SUBMITTALS

- A. Product data: Manufacturer's descriptive product data sheets including performance data, installation instructions, adjustment and operating instructions.
- B. Shop Drawings:
 1. Head, jamb and sill details and relevant dimensions of pockets and mounting requirements.
 2. Schematic layout of shades and control locations
 3. Shade schedule reflecting room numbers and window locations/details.
- C. Samples:
 1. Selection of shade fabric swatches for initial fabric selection.
 2. Hardware samples for material selection and color selection of visible hardware.
- D. Test reports and certificates:
 1. Provide fabric test reports for compliance with fabric test properties.

1.4 WARRANTY

- A. Manufacturer shall provide 5 year warranty from Substantial Completion on all hardware and shade material.
- B. Bead chain in all manual systems is a fail safe element and is not warranted.

1.5 DELIVERY AND STORAGE

- A. Systems shall be delivered to the site in original manufacturer's containers.
- B. Containers shall be uniquely labeled to identify the corresponding window openings and locations.
- C. All materials shall be stored in a dry, secure place protected from weather, water and heat, surface contaminants, construction traffic and all other potential damage.

PART 2: PRODUCTS

2.1 MANUFACTURER

- A. TimberBlind/Metro Shade.
- B. Substitutions: In accordance with Section 01 31 00.

2.2 COMPONENTS

- A. Clutch system shall be comprised of multi-banded steel springs that create the pressure necessary to keep the shade in the desired position. All plastic components to be made of glass reinforced polyester thermo polymer (PBT) conforming to military specification MIL M-24519. The clutch shall develop no more than ½ lb. drag for easy lift.
- B. Tube shall be 1¾" (38mm) OD extruded aluminum with .075" wall thickness. The tube shall incorporate an integral channel for affixing the shade band to the tube via spline. Extruded aluminum shade roller tube of a diameter and wall thickness required to support shade fabric without excessive deflection.

2.3 ALTERNATIVE MOUNTING OPTIONS

- A. The tube shall be 2½" (63mm) OD aluminum extruded tube with .09" wall thickness.
- B. The tube shall be 1¼" (32mm) OD aluminum extruded tube with .065" wall thickness.
- C. Brackets to be constructed of 0.07" (1.8mm) thick painted or nickel-plated, C1008/1010 cold rolled steel. Painted brackets are finished with high quality baked enamel coating. End plug bracket shall have a lock down retainer device. Brackets are reversible for right or left-hand installation.
- D. End Plug to consist of an outside sleeve rotating freely on a center shaft, providing the bearing surfaces on which the roller rides. Outside sleeve and center shaft to be made of heat stabilized fiber reinforced plastic to ensure smooth, wear resistant operation.
- E. Hembar shall be extruded aluminum, heat sealed and completely enclosed into a 1½" pocket.
- F. [Optional Fascia and Back plate shall be made of extruded aluminum (alloy/hardness 6063/T5) with an average thickness of .062" (1.6mm). Panel will be finished with an electro-statically applied, baked-on powder coating or anodized.]
- G. [Optional Fascia Bracket Set shall be made of stamped zinc-plated steel and allow the idler end to drop into the brackets for ease of installation. Brackets will allow for mounting of shade system with fascia panel inside, outside, or to the ceiling.]
- H. [Optional Side Channels and Sill Channels shall be made of extruded aluminum and prevent light from entering along the edges of the shade for light block. Pile inserts fit into side channels to further enhance light blocking and reduce wear on shade fabric.]
- I. [Optional Shade Pocket and Pocket Closure shall be made of extruded Aluminum for optional mounting in recessed ceiling pocket.]
- J. Fabric shall be specified by designer. Please refer to TimberBlind/Metro Shade sample cards for specifics on color selection, Parameters/guidelines and attributes.

END OF SECTION 12 24 00