

**BTX Window Automation
Product Specifications
Roller Shade Systems**

Manual RS-20

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Part 1 – General

1.01 Summary:

- A. Scope
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.

1.02 RELATED SECTIONS and DOCUMENTS:

- A. Related Sections
1. Section 06100 – Rough carpentry (blocking and support for window shades)
 2. Section 08520 – Aluminum windows
 3. Section 08920 – Glazed aluminum curtain walls
 4. Section 09250 – Gypsum drywalls
 5. Section 09510 – Acoustical ceilings
- B. RELATED DOCUMENTS
Drawings and general provisions of the contract, including general and supplementary conditions apply to this section.

1.03 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 for all window shade systems.
1. Shade pockets recessed into ceiling

1.04 Submittals

- A. Product data: Manufacturer's descriptive product data sheets including performance data, installation instructions, motor and control installation, 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.

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- D. Test reports and certificates
 - 1. Provide certificates of proof of UL certification for line voltage motors and components.
 - 2. Provide fabric test reports to proof compliance with fabric test properties.

1.05 Warranty

- A. Manufacturer shall provide five (5) year warranty from the date of installation on all shade motors. All operating control and electronic accessory components shall carry a one (1) year limited warranty against defects in materials and workmanship.

1.06 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

2.01 Manufacturer:

- A. BTX Window Automation
10763 Sanden Drive
Dallas, TX 75238 USA
(800) 422-8839
www.btxinc.com

2.02 Components:

- A. Clutch 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 thermopolymer (PBT) conforming to military specification MIL M-24519. The clutch shall develop no more than ½ pound drag for easy lift. System to be symmetrical for left or right-hand installation. Clutch permits torque to be transmitted to the shade roller only in one direction. In the other direction the roller is nearly free to rotate so that the weight of the shade material prevents movement in the reverse direction.
- B. Tube shall be 55mm to 59mm extruded aluminum BTX Exactatube design utilizing fabric-mounting flange and allows for trouble-free fabric attachment and exact alignment.
- C. Brackets shall be constructed of nickel-plated, cold-rolled steel or painted cold-rolled steel. Idler bracket shall have a locking retainer for secure operation. Brackets are reversible for right or left-hand installation.
- D. Idler end shall be manufactured of heat-stabilized, fiber-reinforced plastic to ensure smooth, operation and consists of a snug-fitting cylindrical housing featuring a freely rotating center shaft for drop-in ease of installation.

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- E. Optional Fascia Panel and Backplate shall be extruded aluminum 4" in width to enclose clutch and roller and provide enclosure for the assembly.
- F. Optional Fascia Bracket Set shall be made of stamped zinc-plated steel and allow both the idler end to drop into the brackets for ease of installation. Brackets will allow for mounting of shade system with fascia panel to either inside or outside of window frame, or to the ceiling.
- G. 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.
- H. Optional Shade Pocket and Pocket Enclosure shall be made of extruded aluminum for optional mounting in recessed ceiling pocket.
- I. Fabric shall be specified by designer/decorator/end-user. Please refer to BTX sample cards for specifics on color selection, parameters/guidelines and attributes.

2.03 Controls

- A. System shall be controlled by a nickel-plated, steel ball chain with steel ball stop to limit the extension of the shade. All plastic components to be made of reinforced thermo polymer plastic for wear-resistance. The system is reversible for either right or left-handed operation.

Part 3 – Execution

3.01 Inspection and Preparation:

- A. Qualified installer shall be responsible for window measurements prior to installation, installation conditions, and preparation of all mounting surfaces.

3.02 Installation:

- A. System installation shall be in accordance with BTX mounting instructions.

3.03 Maintenance:

- A. Lift system components should not require routine maintenance under normal operating conditions.
- B. For fabric care refer to fabric manufacturer's care and use directions.