

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

RS-B9 Roman Shade System

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Part 1 – General

1.01 Abstract:

- A. Scope of work is to provide roman shades that are operated by BTX motorized lift systems along with accessories, attachment hardware, and equipment necessary to complete satisfactory installation.

1.02 Submittals:

- A. Manufacturing literature to describe assembly, materials, installation instructions, and specific data. Include any pertinent wiring diagrams.
- B. Shop drawings are to include but are not limited to, all components, fasteners, and installation methods.
- C. Window systems are custom-built based on measurements taken in the field.

1.03 Quality Assurance:

- A. Manufacturer's Qualification
 - 1. BTX Window Automation is the original manufacturer of a unique line of motorized headrail systems, electronic shading devices and controls.
- B. A qualified installer or sub-contractor shall perform installation.
- C. Installation shall conform to Local and National Building Code and any applicable local standards.
- D. Sample system may be provided upon Architect's request and BTX authorization.

1.04 Delivery, Storage, and Handling

- A. Systems to be delivered to installation site or to installer intact in original manufacturer's custom-built containers.
- B. Systems shall be operated under normal room temperature range, humidity, and operating conditions.

1.05 Warranty

- A. Provide BTX standard limited warranty of five (5) years from date of shipment against defects in materials and workmanship of motors and hardware. Electronic and electrical controls are warranted against defects in materials and workmanship for one (1) year from date of shipment from the factory.

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Part 2 – Products

2.01 Manufacturer:

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

2.02 Components:

- A. 9/07/30 and 9/1/30 2” motors shall be asynchronous 110v/60Hz rated at 180 watts developing 7/10 NM torque at 30rpm capable of lifting 37-53 pounds. 9/1.8 motor shall develop 18 NM torque with lift of 96 pounds at 16 rpm. 220v versions of each motor are available. Motors shall have fully encapsulated shock resistant motor coil and are moisture resistant and fire resistant. All motors are UL and CSA recognized and equipped with a self-adjusting conical brake. Each motor is equipped with precision planetary gears and internal limit switches. Motors shall also have thermal protector for automatic switch off to prevent overheating. Limit switches shall be easily adjustable in either direction by means of separate adjustment knobs.
- B. Tube shall be 2” extruded aluminum.
- C. Tape shall be reinforced nylon, 7.6mm in width.
- D. Tape reel shall be 2” inside diameter injection molded poly resin.
- E. Optional fabric clip shall be 50mm-dia. spring steel and allows for alternative to tape and reel.
- F. 2” plastic motor drive adaptor allows motor to attach to tube.
- G. Drop-in Motor Bracket shall be zinc-plated steel and allow both the motor end and the idler end to drop into the brackets for ease of installation. A 16mm clip also made from zinc-plated steel shall help to secure the assembly to the brackets.
- H. Idler insert shall match the tube shape internally and is provided with a round steel shaft for mounting in the end bracket. Inserts are made from injection molded Durethan¹ plastic.

¹ Durethan is a registered trademark of Bayer Corp.

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2.03 Controls:

- A. The switching device to activate the system shall be either a BTX switch for hardwired control or the BTX radio or IR remote control. Multiple systems shall be controlled either individually or by BTX group controllers or automatic controllers including sun sensors and programmable digital timers. Controls can be integrated with home automation, or building management systems.

2.04 Accessories:

- A. Spring angle coupler shall be a stainless steel helical coil allowing up to a 90-degree bend. Straight coupler shall allow multiple shade installation on a single motor.

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.
- B. The power supplied shall be 110v or 220v AC three conductor to the primary switch (hardwire switch, radio or IR receiver unit, or BTX automated controls). Wiring between primary switch and selected control units shall be in accordance with manufacturer's wiring schematics and specifications. All on site wiring shall be provided by the owner.

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.