

**BTX / SKYCO Product Specifications  
Roman Shade Systems**

**Motorized Roman Shade Systems – ST40 WireFree**

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**Part 1 – General**

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**1.01 Summary:**

Scope of work is to provide Roman shades that are operated by BTX / SKYCO motorized lift system along with accessories, attachment hardware, and equipment necessary to complete satisfactory installation.

**1.02 Turnkey responsibility for motorized Roman shade systems:**

- A. To ensure control of responsibility for satisfactory performance and installation of the motorized Roman 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
  - 2. Power wiring
  - 3. Wire conduits as required
  - 4. Duplex outlets and J-boxes

**1.03 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.

**1.04 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.

**1.05 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.

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**Part 2 – Products**

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**2.01 Manufacturer:**

- A. BTX Window Automation  
2517 Manana Dr  
Dallas, TX 75220 USA  
(800) 422-8839
- B. Skyco Shading Systems  
3411 W Fordham Ave  
Santa Ana, CA 92704  
(800) 777-5926

**2.02 Components:**

- A. 40mm DC powered tubular motors shall be asynchronous 12V rated at 4600mAh built-in lithium-ion battery motor developing 3 NM torque at 20rpm capable of lifting 40 lbs. Motors shall have a fully encapsulated shock resistant motor coil and be moisture resistant and fire resistant. All motors are equipped with a mechanical brake. Motors shall have a thermal protector to prevent overheating. Motors shall feature internal radio control. Electronic limit switches shall be easily adjustable in either direction by means of compatible control device.
- B. Tube shall be 38mm extruded aluminum.
- C. Drop-in motor bracket shall be zinc-plated steel and allow both the motor end to drop into the bracket for ease of installation.
- D. Idler insert shall match the tube shape internally and is provided with a round plastic, spring-loaded shaft for mounting in the bracket. Inserts are made from injection molded plastic.
- E. Adaptor Set allows the motor to drive the tube and shall be manufactured from injection molded plastic.

**2.03 Controls:**

- A. The switching device to activate the system shall be either an RF remote control or wall-switch. Systems can be controlled individually or as a group. Motors can be integrated into building automation system utilizing wireless RS232 Interface (SmartConnect) or via dry contact input.

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**Part 3 – Execution**

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**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 charging power supplied shall be manufacturer specified 100V-240V AC/DC power transformer. 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 owner.

**3.02 Installation:**

- A. System installation shall be in accordance with BTX / SKYCO 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.