

SPECIFICATION: MOTORIZED SHADING SYSTEM

- 1 **MOTORIZED SHADE:** Provide motorized shading system as manufactured by SOLARFECTIVE PRODUCTS LTD, Ph: (416) 421-3800, Fax: (416) 421-8424.

Utilizing a linear motor, fabric tube and all necessary electrical accessories for switch or automatic operation in accordance with the control specifications. Electrical equipment shall be installed by the electrical contractor as indicated in section _____ of the specifications.

- 1.1 **Internal Limit Switches:** that are adjusted by two external thumbscrews to allow exact setting of stop position in both the raise (top) and lower (bottom) positions. Micro switches provide circuit breaking at the end of the run. Limit switch setting cannot be disturbed by the action of the roller tube.
- 1.2 **Brake:** solenoid activated disc brake mechanism stops and holds in any position. Brake automatically disengages when motor is operating
- 1.3 **Motor- Asynchronous:** with built in reversible capacitor start and run, made to be operated with 95-125v-AC at 60Hz. Single phase. D.C. motor no acceptable. Temperature Class A (maximum temperature rating 140 degrees C). Thermally protected totally enclosed. Motor operator shall be concealed inside the shade tube. Maintenance free. CSA APPROVED.
- 1.4 **Gear Box:** 3 levels of satellite gears for load distribution, planetary type gears machined to close tolerance of tempered steel. Speed varies according to model from 12 RPM to 30 RPM.
- 1.5 **Installation:** Two screws lock the drive end wheel of the motor to the tube. A notched section in the tube turns the ring, which activates the shade assembly. Upper and lower stop positions are adjusted with hex key limit switches located on motor end.
- 1.6 **Controls:** Maximum two motors shall be operated by a white three-position rocker switch, located remotely as directed by the architect. Where required, motors shall be hooked up to a "Motor Group Control" (M.G.C.) located as shown on the Manufacturers wiring diagrams. Shade manufacturer shall supply the switch and "M.G.C." for installation and hook-up by the electrical contractor, CSA approved brushed stainless steel switch cover plates (1, 2, 3 or 4 gang) available.

Control Options: (Select One)

- Control from single locations
 - Control from multiple locations
 - Wireless remote control
 - Low voltage control
 - Key operated switch
 - Sun sensor control, shades activated at fixed level of light
 - Three level, lux control, automatic constant light level control, with clock override to open/close blinds at chosen times.
 - IGC controls
- 1.7 **Warranty:** Manufacturer shall provide warranty that the motor and all components are free of manufacturing defects for two years (unless otherwise stated) from date of installation. This warranty is void if the product has been improperly installed.

J.B. TINNEY, INC.

ARCHITECTURAL FABRIC SYSTEMS

2 HARDWARE AND ACCESSORIES REQUIRED FOR TOTAL INTEGRATED SYSTEM

- 2.1 Fabric Tube: Extruded aluminum tube, 9093 – T5 alloy, 2.55” O.D. tube with internal keyway to receive tubular motor. Tube shall be extruded with two fabric mounting channels. Channels shall be designed to accept fabric spline. Long span fabric tube also available.
- 2.2 Fabric Spline: Extruded vinyl asymmetrical locking channels and embossed fabric guide, for use with 2.55” O.D. tube. Spline shall be snapped and locked into fabric tube and have sufficient capacity to support fabric shade. Spline shall be readily removable without dismounting fabric tube from end brackets.
- 2.3 End Brackets (Drive and Idler): Shall consist of 1/8” thick sheet steel. Wall, jamb, or ceiling mounted as required. Shall be permanently installed and accept fascias.
- 2.4 Fabric Tube End Plug: Delrin end shall have steel pin which permits up to 5/16” lateral adjustment in tube width.
- 2.5 Fascia: Provide extruded 6063-T5 aluminum fascia with anodized or painted finish. Fascia shall bang on to extruded aluminum mounting clip and brackets without any exposed fastening devices. Fascia will not cover the top of the bracket when banged in place so as to ensure airflow over the top of the shade and bracket assembly.
- OR** – Provide break formed satin-coated steel 20-gauge fascia for bigger size shades. Steel fascia shall be snapped on to hanger clips without any exposed fastening devices. Bridging clips available to provide uniform transition between adjacent fascia. Snap off filler clip, break formed satin-coated 24-gauge, allows removable or insertion of wall partition systems.
- 2.6 Closure and Hanger: Provide extruded 6063-T5 aluminum closure hanger and closure cover with anodized or painted finish fastened inside the pocket. Pocket and blocking shall be supplied by the others.
- OR** – Provide break formed satin coat 18-gauge closure hanger and 20-gauge closure cover.
- 2.7 Blackout Side and Bottom Channels: Extruded aluminum channels 2 1/4” x 1 1/8” to reduce light infiltration around the sides of the shades. The channels to include 45” “Fuzz” on both sides to further minimize infiltration.
- 2.8 Centre Support Assembly: 1/8” steel bracket with vertically adjustable plastic saddle and aluminum connector axle. At the curved wall, more than one shade shall be driven by one operator through universal axles.
- 2.9 Hembar: Extruded aluminum profile with hollow section, single length for each shade panel. Insert in fabric pocket and sew both ends.
- OR** – Extruded 6063-T5 aluminum, anodized or painted to match, with steel inserts and endcaps. Exposed type.
- 2.10 Finishes: all exposed aluminum parts have an anodized or painted finish. Steel parts are either zinc plated, satin coat finish, or have been bonderized prior to painting with a backed, enamel finish.

3 SPECIFICATIONS: SOLARFECTIVE SHADING FABRIC

- 3.1 300 Series Solarblock 3% Open
- 500 Series Solarshield 5% Open
- 1000 Series Solarview 10% Open

Shade cloths shall be woven of .018 opaque, vinyl coated polyester yarn consisting of approximately 79% vinyl and 21% 500 denier polyester core yarn. The fabric shall be tensioned in the finishing range prior to heat setting to keep the warp ends straight and minimize or eliminate weave distortion to keep the fabric flat. The fabric shall be dimensionally stable. Color to be as selected from standard range

		300 Series Solarblock	500 Series Solarshield	1000 Series Solarview
Openness Factor		30/o + 0.0% - 0.5%	6% + 0% - 1%	10%
Weight per/sq./yd.		21 oz.	19 oz.	17 oz.
Warp ends per inch.		42	36	36
Fill ends per inch.		31	30	25
Stretch % (271 lb. wt.):	Warp:	2%	2%	3%
	Fill:	3%	3%	3%
Set %	Warp:	1.5%	1.5%	1.5%
	Fill:	1.5%	1.5%	1.5%
Abrasion Resistance (500 Tarber Cycles)	Yarn:	None	None	None
	Rupture:	None	None	None
	Wear:	Trace	Trace	Trace
U.V. Deterioration: (200 Sun Fade Hours)	Fade:	None	None	None
	Tensile	96%	96%	96%
	Retention:			

- 3.1.1 Performance: As a “shade cloth” the fabric shall hang flat, without buckling or distortion. The edge, when trimmed, shall hang straight without raveling, An unguided roller shade cloth shall roll true and straight without shifting sideways more than +1/8” in either direction due to wrap distortion, or weave design.
- 3.1.2 Flame Retardant: Fabric shall be certified by an independent Laboratory to pass the Small Scale Vertical Burn Requirement test CAN and ULC-S109-M98, and NFPA 701 small scale.