SPECIFICATIONS

PART 2—PRODUCTS

(For Part 1 and Part 3, see General Specifications.)

2.01 Manufacturer

A. Shall furnish all electrical control components, shades, and accessories for complete installation and single source responsibility.

Castec, Inc.
7531 Coldwater Canyon Avenue
North Hollywood, CA 91605
(800) 828-2500

2.02 Product

A. Castec Trackstar
The Castec Trackstar shade is a manual or motorized fabric deployment system for curved and angled glazing areas. The fabric is guided by a series of carriers that travel smoothly along curved tracks through the radius of the opening. The fabric will cascade down the opening between the mullions suspended by inserted stays that are connected to the track by custom designed carriers. Trackstar shades are custom designed to fit each opening, and all projects are engineered.

2.03 Materials

A. Shade Fabric: Shall be selected from a large choice of vinyl-coated fiberglass and vinyl-coated polyester yarns woven into various configurations and colors. Shading fabrics shall be either .020" diameter 1000-denier polyester core PVC jacketed yarn or .016" diameter 500-denier PVC-coated fiberglass yarn. Woven yarn will be interlocking and heat treated so that all materials are securely bonded. The woven fabrics are made by coating a high strength polyester or fiberglass yarn with a proprietary vinyl compound that employs performance additives. This vinyl compound is specially formulated to resist fading, fire, mildew, soiling, and bacteria.

1. **Vinyl-Coated Polyester Fabrics** are available in the weaves listed below.
   a. **SheerWeave 4000, OF 5%**
   b. **SheerWeave 4100, OF 10%**
   c. **SheerWeave 4400, OF 3%**
   d. **SheerWeave 4800, OF 1%**

   All vinyl-coated polyester fabrics are available in various colors, and in widths up to 98".

2. **Vinyl-Coated Fiberglass Fabrics** are available in the weaves listed below.
   a. **SheerWeave 2000, OF 5%**
   b. **SheerWeave 2100, OF 10%**
   c. **SheerWeave 2390, OF 5%**
   d. **SheerWeave 2360, OF 10%**
   e. **SheerWeave 1000, OF 25%**
   f. **M Screen, OF 3% and 5%**
   g. **E Screen 4100, OF 5%**
   h. **E Screen 4110, OF 10%**
   i. **T Screen 5103, OF 3%**
   j. **T Screen 5100, OF 5%**
   k. **T Screen 5110, OF 10%**
   l. **Verso Veil, OF 1%**
   m. **Basketweave 100, OF 13%**
   n. **Hexcel XL2 Satin Weave, OF 3%, 5%, or 10%**
   o. **Hexcel XL Screen, OF 5%.**

   All vinyl-coated fiberglass fabrics are available in various colors. Maximum widths range from 72" to 98".

3. **Combination Fabric: SheerWeave 3000, OF 14%** Made of vinyl-coated fiberglass in the warp for dimensional stability and vinyl-jacketed polyester in the fill for shading characteristics and color variety. It has a vertical ribbed pattern, and is available in numerous colors and designs. Maximum width 96".

4. **Blackout/Darkroom Fabric:** Shall be totally opaque. Fabric shall be made of first quality materials with no pin holes, breaks, or cracks and shall be washable and colorfast. The following Blackout/Darkroom fabrics are available:
   a. **Flocke, OF 0%:** 48% fiberglass with 52% acrylic flocked backing. Available in widths up to 78".
   b. **Hexcel 1260, OF 0%:** made from fiberglass coated with acrylic. Available in widths up to 71".
   c. **Darkroom 100, OF 0%**: in 12 or 14 oz. 1 ply fiberglass, 3 plies plasticized PVC. Available in widths up to 72".

B. Components

1. **Tracks**: Shall be of commercial quality 6063-T1 extruded aluminum not less than .055" wall thickness and shall meet AAMA standards. Tracks shall be 15⁄16" wide O.D. x 1 1⁄16" high O.D.

2. **Fabric Carriers:** Shall be made of self-lubricating Delrin® and shall be compatible with track. The eye and hook assembly shall be made of .093" Brite basic wire, Brite nickel plated.
3. **Fabric Battens:** Shall be of anodized aircraft aluminum rod 3⁄16" diameter, and shall be encased in back-facing pockets sewn horizontally into fabric and spaced approximately 8¾" apart.
4. **Headrail:** Shall be clear pine, ¾" x 1½" for a manual system, or ¾" x 3½" for a motorized system. The headrail shall be completely covered in shade fabric.
5. **Bottom Rail:** Shall be of 6063-T5 extruded aluminum alloy with a continuous spline channel for fabric attachment.
6. **Track End Caps:** Shall be made of steel and finished to match the tracks.
7. **Manual Operation**
   a. **Adjustable Pole:** Shall be made of clear anodized aluminum extendable to 96" long, or blue anodized aluminum extendable to 48" long. Pole shall have a custom-molded Delrin end cap.
   b. **Operating Ring:** Shall be a .35" extruded polymer ring attached to the shade's bottom rail with rivets.
   c. **Tracklock Mechanism**: Shall consist of specialized molded polymer carriers attached to the ends of the bottom rail. When the bottom rail is rotated into its upward position perpendicular to the track, the shade is locked in place. When it is tilted, the shade is unlocked and can be raised or lowered using the adjustable pole.
8. **Motorized Operation**
   a. **Motors:** Shall be asynchronous capacitors, single phase type, operating on AC 120V-60HZ. They shall have planetary type gears, solenoid-activated disc brakes, and built-in limit switch units. Each motor shall be thermally protected, tubular in shape, and totally enclosed within the roller tube. Motors shall be UL-recognized and CSA-certified for safe operation. Most motors operate at either 38 RPM or 64 RPM.
   b. **Motor Roller Tube:** Shall be of sufficient diameter, based on a width and height scale, to properly lift the fabric without sagging. All tubes shall be of extruded aluminum .063" or larger depending on the width of the shade.
   c. **Motorized Idler End Cap:** Shall consist of an injection molded polymer plug with a steel shaft that will allow easy but positive locking of roller tube into idler end bracket.
   d. **Motor Mounting Brackets:** Shall be galvanized steel and shall be universally applicable for inside, outside, ceiling, or recessed mount.

2.04 Colors and Finishes

Aluminum extrusions are of 6063-T5 alloy available in dark bronze, clear anodized, or white enameled finish.

2.05 Motorized Control Options

A. **Individual or Group Switching:** multiple and remote switching.

B. **Group Control System:** for operating any number of motors from one or more switches or remote control. Can be configured to control entire elevations.

C. **Switches:** rocker, toggle, key, or decorator.

D. **Electrical Accessories:** infrared and radio remote controllers, 7-day timers, and sun sensors.

E. **Integrated System Operator:** capable of integrating with complete building automation systems.