

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.
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2.02 Product

A. Skystar 701A Skylight Shades

The Castec Skystar 701A is a manually-operated folding skylight shading system. It is constructed with battens sewn into pockets across the shade width. Carriers attached to the battens guide the fabric along tracks on either side of the shade. When the shade is opened, the fabric forms folds or pleats like a Roman shade.

- 1. **Operating System:** The shade is operated with a wand that hooks into a ring in the center of the bottom rail. Two tension cords extend down each side of the shade, pass through the bottom rail, and connect to the window frame at opposite corners, thus creating stability for the shade as it is opened and closed.

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 $1\frac{5}{16}$ " wide O.D. x $1\frac{1}{16}$ " 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. **Battens:** Shall be of $\frac{3}{16}$ " diameter anodized aluminum rod and shall be encased in back-facing pockets sewn horizontally into fabric and spaced approximately $8\frac{3}{4}$ " apart. (Custom pleat spacing is available.)
4. **Headrail:** Shall be $1\frac{1}{2}$ " x $\frac{3}{4}$ " clear pine covered in shade fabric.
5. **Oval Bottom Rail:** Shall be of 6063-T5 extruded aluminum alloy with continuous spline channel at top for fabric attachment.
6. **Oval Bottom Rail End Caps:** Shall be molded polymer and shall match the color of the bottom rail. A metal grommet shall be installed in the end cap to allow the tension cords to pass through.
7. **Track End Caps:** Shall be made of steel and finished to match the tracks.
8. **Track Brackets for Inside Mount:** Shall be aluminum, $\frac{5}{8}$ " wide, and shall match the color of the track.
9. **Optional Headrail Brackets:** Shall be extruded aluminum, $1\frac{1}{4}$ " wide by $1\frac{1}{32}$ " deep by $1\frac{1}{2}$ " high, and shall be finished to match the tracks.
10. **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.
11. **Operating Ring:** Shall be a .35" extruded polymer ring attached to the shade's bottom rail with rivets.
12. **Cord:** Shall be white .02 mm polyester heat-set cord.

2.04 Finishes

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