

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes interior manually operated roller screen window shades with following characteristics:
  - 1. Shades shall be visually transparent solar or black-out type, single-material shade cloth in dense-weave fabric.
  - 2. Shade orientation shall be regular-roll, shade cloth at window side of roller.
  - 3. Mounting shall be wall mounted with brackets and end caps.
  - 4. Side channels, sill channel and perimeter seals for black-out type shades.

### 1.2 WARRANTY

- A. Warranty: Submit written warranties executed by the manufacturer agreeing to replace shade material that fades, sags, or warps within the specified warranty period.
  - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Warranty specified above shall not deprive the University of other rights the University may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Design/Builder under requirements of the Contract Documents.

## PART 2 - PRODUCTS

### 2.1 SHADES

- A. Available Products: Subject to compliance with requirements, shades that may be incorporated into the Work include, but are not limited to, those specified in the Shade Schedule.
  - 1. Shade Unit: Commercial grade roller shades
- B. Transparent Solar Shade Material Characteristics:
  - 1. Material: Single thickness, non-raveling .030-inch vinyl fabric; woven from .018-inch diameter extruded-vinyl yarn comprising of 21 percent polyester and 79 percent reinforced vinyl. Fiberglass content shall not be acceptable.
  - 2. Pattern: Visually transparent, Satin-Twill Pattern.
  - 3. Color: Multi-color construction has a two-color effect with one color dominating on each side. Color as selected by Design/Builder from manufacturer's available range.
  - 4. Material Width: As indicated.
  - 5. Openness Factor: Dense weave, 3 percent open.
- C. Black-out Shade Material Characteristics:
  - 1. Material: Single thickness, fiberglass coated fabric, non-raveling 12 mils thick; woven from .018-inch diameter extruded-vinyl yarn comprising of 21 percent polyester and 79 percent reinforced vinyl
  - 2. Pattern: Blackout Material.
  - 3. Color: As selected by Design/Builder.
  - 4. Material Width: As indicated.
- D. Shade Units:
  - 1. Operation: Manual.

2. Mounting: Wall mounted, including fascia closure panels.
  3. Direction of Roll: Regular.
- E. Black-Out Shades: Designed for eliminating all visible light gaps when shades are fully closed; fabricated from blackout shade material with fascia and bottom bar extended and formed for light-tight joints among shade components and between shade components and adjacent construction.
1. Side Channels, Sill Channel and Perimeter Seals: Manufacturer's standard design for eliminating light gaps when shades are closed.
  2. Shade Band Retention System: Manufacturer's standard design for guiding shade band material through range of travel and holding shade band flat with edges of material within side channels.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. As required by Design/Builder and manufacturer to maintain warranty.

END OF SECTION