

Part 1 General

1.1 WORK INCLUDED

- .1 Provide chain operated interior roller shade system.
- .2 Provide one roller shade per glazing unit (see drawings for locations) complete with all related hardware to complete the installation to the locations indicated on drawings. Note roller shade does not need to span angled glazing above locations or below mid rail of vertical glazing.
- .3 Roller shades c/w valance shall be mounted on or within glazing frame.

1.2 QUALITY ASSURANCE

- .1 All work specified under this section supplied and installed entirely by one subcontractor using his own forces.
- .2 Install one complete operating sample with accessories on site for review by the Departmental Representative before proceeding with the remainder of the work.

1.3 SUBMITTALS

- .1 Submit detailed drawings showing all components, finishes and perimeter construction conditions, installation, controls, and all applicable dimensions in accordance with Section 01 33 00.
- .2 Submit duplicate samples of the specified shade fabric cloth of each colour and % openness; minimum size 200 mm x 200 mm for review.
- .3 Submit duplicate samples of valance colour finish options for selection (full range).
- .4 Submit duplicate copies of cut sheet of housing, trim roller tube, hem bar and operating hardware brackets for review.
- .5 Submit duplicate copies of operating and maintenance instructions including name and telephone number of local service company.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Do not deliver to site until areas to receive shades are completely finished, all walls and ceilings completed and painted.
- .2 Deliver materials in original protective wrappings or containers, with manufacturer's labels and sealed intact.
- .3 Handle and store materials according to manufacturer s recommendations, protecting materials and finishes from damages, marring of finishes or soiling.

Part 2 Products

2.1 MANUFACTURERS

- .1 Acceptable Manufacturers:
 - .1 Hunter Douglas Contract.
 - .2 Draper.
 - .3 Sun Glow.
 - .4 Urban Edge Shading Inc.

2.2 MATERIALS

- .1 Metal manual chain operator, shade tube assembly, roller shade brackets, bottom hem bar, jamb mounted wheel bracket for wheel, and fasteners shall be to manufacturer's standard published specifications.
- .2 Fabric: Woven SG Sunscreen 3%; CS 101, 25% polyester yarn, 75% PVC fabric. Green Guard certified.
 - .1 Pattern and colour as selected by Departmental Representative from unrestricted range.
- .3 Valance:
 - .1 Square profile
 - .2 Dark Brown or Black colour to match existing glazing. Colour to be selected from full range by Departmental Representative.

Part 3 Execution

3.1 FABRICATION

- .1 Shading system components manufactured and assembled allowing for custom installation techniques to suit project requirements.
- .2 Finished assemblies shall be square, true to size and free from distortion, twist, or other defects that could affect their strength, operation or appearance.
- .3 Factory applied finished shall be uniform, smooth and without blemishes.
- .4 The fabric shall retain its shape, not be affected by moisture or heat, resistant to UV fading and shall be non-flammable.

3.2 INSPECTION / PREPARATION

- .1 Verify that all blocking and framing necessary to carry shade assembly hardware is a proper installation and secure.
- .2 Notify Departmental Representative in writing of any deficiencies in the work of other trades that would affect the window treatment system.

- .3 Make accurate measurements at the site before fabrication.
 - .1 Check layout of glazing framing sections, spans, and loading capabilities.

3.3 INSTALLATION

- .1 Install shades in exterior windows as indicated on drawings.
- .2 Install work by manufacturer's skilled tradesmen and install in strict accordance with manufacturer's recommendations.
- .3 All items installed, plumbed, squared, rigidly coupled and adequately anchored, maintaining uniformed clearances, accurate alignment levels, and parallel with the window plane to provide smooth operation without binding.
- .4 Fabric shall not travel sideways more than 3 mm in either direction.

3.4 ADJUSTING AND CLEANING

- .1 Adjust shades and operating components as required to ensure smooth and trouble-free operation without binding.
- .2 Adjust shade and shade cloth to hang flat without buckling or distortion.
- .3 Clean shades and exposed components.
- .4 Replace work which cannot be satisfactorily repaired, adjusted, or cleaned.

END OF SECTION