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**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.
- .3        Roller shades 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 texture; minimum size 200 mm x 200 mm for review.
- .3        Submit duplicate samples of housing, trim roller tube, hem bar and operating hardware brackets for review.
- .4        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.

## **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, 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 all exterior windows.
- .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**