

**Part 1 General**

**1.1 RELATED DOCUMENTS**

- .1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY OF WORK**

- .1 Work Included: The work of this Section includes the provision of all labour, materials, equipment and services required to supply and install roller window shades as indicated on the drawings, as specified herein and as required for a complete project.
- .2 Related Work:
  - .1 Section 06 10 00 - Rough Carpentry.
  - .2 Section 08 52 13 - Aluminum-Clad Wood Windows.

**1.3 REFERENCES**

- .1 American Society for Testing and Materials (ASTM):
  - .1 ASTM G21-15(2021)e1, Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
  - .2 ASTM G22-76(1996), Standard Practice for Determining Resistance of Plastics to Bacteria.
- .2 National Fire Protection Association (NFPA):
  - .1 NFPA (Fire) 101-2023, Life Safety Code, 2024 Edition.
  - .2 NFPA (Fire) 701-2023, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2024 Edition

**1.4 SUBMITTALS**

- .1 General: Submit each item in this Article according to the Conditions of the Contract and the applicable Division 01 Specification Sections.
- .2 Shop Drawings:
  - .1 Provide a schedule of shade sizes c/w dimensions and locations, installation details and clearances, fastening methods.
  - .2 Indicate materials, thicknesses, methods of construction and details of operating mechanisms.
  - .3 Include electrical wiring diagram and power requirements for motorized blinds.
- .3 Samples:
  - .1 Provide a sample of each type of shade and blackout fabric, minimum size 200 mm x 200 mm.
  - .2 Provide a sample of each metal and finish colour selected and each accessory.

- .4 Maintenance Data:
  - .1 Provide maintenance data for the roller blinds for incorporation into the manual specified in the operation and maintenance manual specified in Section 01 00 10 -General Instructions.
  - .2 Include complete detailed instructions on the care and maintenance of the shades and blinds, including maintenance of the operating mechanism and cleaning of the fabric.

## **1.5 QUALITY ASSURANCE**

- .1 The blinds shall be installed by a company licensed by the product material manufacturer as an approved installer.

## **1.6 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver products in original unopened packaging with legible manufacturer's identification.
- .2 Store products in strict accordance with the manufacturer's recommendations to protect from damage.

## **1.7 WASTE MANAGEMENT AND DISPOSAL**

- .1 Cooperate with the Waste Management Coordinator in the implementation of the Waste Management Plan specified in Section 01 74 21 "Waste Management and Disposal".
- .2 Handle and dispose of waste materials generated by the work of this Section, including packaging materials, in accordance with the Waste Management Plan.

## **Part 2 Products**

### **2.1 ROLLER SHADE ASSEMBLIES**

- .1 Single solar shade blinds: Recessed roller shade with manual operation. Components:
  - .1 Recessed shade brackets for recessed mounting within ceiling space.
  - .2 51 mm or 70 mm dia. extruded aluminum tubes (diameter to suit blind width).
  - .3 Solar control fabric.
  - .4 Adjustable idle end bracket for tube to prevent fabric from telescoping.
  - .5 Chain guides.
  - .6 Steel bead chain, 40 kg test.
  - .7 Reverse roll option
  - .8 Extruded aluminum bottom closure plate
  - .9 Extruded aluminum reversible bottom bars.
- .2 Accessories: Fasteners and accessories as required for a complete installation.

## **2.2 SHADE FABRIC:**

- .1 Tension the fabric in the finishing range prior to heat setting to keep the warp ends straight and minimize or eliminate weave distortion to keep the fabric flat. The fabric shall be dimensionally stable.
- .2 Characteristics of the fabric to meet or exceed the following:
  - .1 Openness factor: approx. 3%
  - .2 UV blockage: approx. 97%
  - .3 Composition: 35% fibreglass, 65% vinyl on fibreglass
  - .4 Mesh weight: 471 g/m<sup>2</sup>
  - .5 Fabric thickness: 0.48 mm
  - .6 Breaking strength: 116 kg warp; 147 kg fill
  - .7 Stiffness: 212 mg warp; 233 mg fill
  - .8 Fire classifications: NFPA 101, Class A.
  - .9 Bacteria and fungal resistance: ASTM G21; ASTM G22.
  - .10 Performance: The fabric shall hang flat, without buckling or distortion. The edge, when trimmed, shall hang straight without ravelling. An unguided roller shade cloth shall roll true and straight, without shifting sideways more than 3 mm in either direction due to warp distortion or weave design.
- .3 Colour to be selected by the Consultant from the manufacturer's complete colour range.

## **2.3 FABRICATION**

- .1 Verify dimensions on site prior to fabrication.

## **Part 3 Execution**

### **3.1 INSTALLATION**

- .1 Install roller shades and blinds in accordance with the manufacturer's instructions.
- .2 Install level and true to line.
- .3 Fasten securely.
- .4 Conduct field tests and adjust operable parts for smooth, correct function.

### **3.2 CLEANING**

- .1 Upon completion of the installation, remove from the premises all surplus material, dirt and debris caused by the work of this Section and leave the installation clean.
- .2 Make good any damage caused by the work of this Section.
  - .1 Execute repair work in accordance with the original manufacturer's written instructions.

### **3.3 DEMONSTRATION**

- .1 Demonstrate to the Owner's personnel the proper operation and maintenance procedures for the blinds.

**END OF SECTION**