

## **DRAPERY**

### **PART ONE: GENERAL**

#### **1.1 Description**

1.1.1 Work of this Section, as shown or specified, shall be provided by the Interior Contractor and shall be in accordance with the requirements of the Contract Documents.

1.1.2 The work shall include fabrication of Draperies as indicated on drawings and specifications and as specified herein including labor, all materials and equipment related to the fabrication, delivery and complete installation. The work shall also include procurement of specified fabrics unless indicated otherwise.

1.1.3 Related work in other sections:

- a. Section 12125 - Banners.

#### **1.2 Submittals**

1.2.1 All submittals shall be made according to Section 01300 and as specified herein.

1.2.2 Submit the following to the Consultant for approval prior to fabrication or installation of the project Draperies:

- a. Shop drawings of all areas to receive Draperies and related items. These drawings shall indicate:
  - 1. Plan or plans showing the location of all Drapery track indicating direction in which Drapery panels will draw, the location of and the manner in which draw mechanisms will be mounted.
  - 2. Details and elevations of all Drapery panels showing seaming, hemming, pleating and locations of weights.
  - 3. Indicate required anchorage and accessory items, field dimensions, finishes, and methods of all hardware attachment and installation.

- b. Two (2) samples of each Drapery fabric specified, of sufficient size that will show one full repeat of any repeated pattern or design, but at least 18" x 18" (450 x 450 mm) in size (minimum).
- c. Sample of Drapery hardware to be used prior to installation
- d. Review of samples will be for color and texture only. Compliance with other requirements is responsibility of Interior Contractor.
- e. One (1) set of Draperies to be installed at job site for approval before fabrication of total job. This sample Drapery shall be fabricated and installed according to the field measurements taken by the Interior Contractor and shall be submitted to the Consultant for approval. Upon receipt of approval by Consultant, this Drapery shall remain in place as part of the installation to serve as quality standard. The balance of the Draperies shall be in every way of the same quality as the sample approved.

1.2.3 All draperies delivered and installed shall match the applicable samples.

### **1.3 Quality Assurance**

1.3.1 All workmanship shall be of the highest grade and quality of Drapery fabrication and installation. Work shall be done by skilled, experienced, competent and responsible workmen, exemplifying the best standard of Drapery workmanship. All materials and methods used in the fabrication and installation of Drapery shall be of the highest quality and standard.

1.3.2 All work and materials shall conform to the drawings and specifications; any changes or deviations in materials or methods must be approved by the Consultant.

1.3.3 All Draperies shall be of the finest contract quality and shall be fabricated to withstand dry cleaning and hard usage. All soil marks, flaws or other defects shall be eliminated, removed or repaired as directed by the Owner prior to final acceptance. All patterns must be matched at

seams.

- 1.3.4 All measurements and yardage quantities listed herein are approximate. The Interior Contractor shall be responsible for taking accurate job-site measurements for all dimensions for Drapery track lengths, fabric yardage and drapery panel widths and heights prior to fabric purchase, drapery fabrication or installation of Draperies. Each room shall be measured individually.
- 1.3.5 Draperies are to be fabricated and installed wall-to-wall unless otherwise noted. Any Draperies installed at less than the specified fullness will not be accepted.
- 1.3.6 Interior Contractor shall be responsible for securing approval when required from the State Fire Marshal on all materials to be used. A letter from the Fire Marshal's office shall be sent to the owner indicating such approval where required.
- 1.3.7 All materials and labor must be warranted by the successful bidder for a period of three years with pro rata replacement unless materials are damaged through abuse or misuse.
- 1.3.8 The Interior Contractor shall supply the yardage figure per fabric required for the entire job to the Owner and to the Consultant.
- 1.3.9 The Interior Contractor shall examine all conditions pertaining to the installation of Draperies and shall provide coordination as required to achieve the proper and timely completion of the installation.
- 1.3.10 The Interior Contractor will not change source or brands of materials during course of fabrication, unless approved by Consultant.
- 1.3.11 Advise General Contractor of requirements relating to his placement of any blocking or supports which are to be used for anchoring or supporting Drapery/Track.

#### **1.4 Deliveries, Storage and Handling**

1.4.1 Use all means necessary to protect the materials and work of this Section before, during and after installation to protect the work and materials of all other trades.

1.4.2 In the event of damage immediately make all repairs and replacements needed to the approval of the Owner and with no additional cost to the Owner.

## **1.5 Job Conditions**

1.5.1 Install drapery only when normal temperature and humidity conditions approximate interior conditions that will exist when the space is occupied.

1.5.2 Drapery lengths and other applicable fabrication factors to allow for expected temperature and humidity levels of the project.

## **PART TWO: PRODUCTS**

### **2.1 Fabric**

2.1.1 When fabric is specified as purchased/supplied by Owner, such fabric may be substituted with other similar fabrics with no additional cost for fabrication, due to such substitution. Notify Consultant prior to proceeding with any such substitution.

2.1.2 When fabric is indicated as provided by Interior Contractor, such fabrics shall be as specified.

2.1.3 Interior Contractor shall receive fabric, whether supplied by Owner or by Interior Contractor, and shall immediately upon receipt inspect fabric for manufacturing defects or flaws and verify type and quantity. Any damage defects, flaws or discrepancies in type or yardage shall be reported to the Owner immediately and prior to cutting.

2.1.4 Interior Contractor shall appropriately store, protect and secure Owner supplied fabric until required for fabrication.

2.1.5 All finish materials shall be treated with flame retardant process where required by local code. Should flame retardant process cause change in color and

effect on finish material, Interior Contractor shall notify Consultant immediately. Certificate of Flameproofing shall be provided to the Owner according to Section 01720.

2.1.6 Interior Contractor shall be required to submit certification from the manufacturers stated herein that the materials provided were the same as those approved, in order to assure the Owner that the quality and content of materials shall be the same as intended. No invoices shall be paid for this work without prior submission of this certification.

2.1.7 Interior Contractor shall be required to submit certification from the manufacturers stated herein that the fabrics provided are preshrunk and have a zero percent shrinkage.

## **2.2 Hardware**

2.2.1 Track shall be of heavy-duty contract quality, made of .050 extruded aluminum (minimum) and shall be constructed and attached to walls or ceilings as specified appropriate to the track span, Drapery weight, and indicated use. Tracks shall be either cord-traversed or baton operated and shall be one-way or two-way draw as indicated on the drawings and specifications. Tracks and all components shall be manufactured by one of the following approved manufacturers or an approved equal.

- a. Graber
- b. Kirsch
- c. Silent Gliss
- d. Coral

2.2.2 Track finish to be manufacturer's standard off white finish unless specified otherwise in drawings or specifications.

2.2.3 All track shall be rigged with slides spaced for 200% fullness, unless specified otherwise.

2.2.4 Hardware shall be appropriate to the Drapery weight and Drapery construction specified and shall include track complete with all required fittings and components. All sets to have appropriate overlap master or butt masters, end pulleys, slides, return plates, cords and cord guides or pulley sets as called for by the manufacturers' catalogs.

2.2.5 Provide all nylon glides or carriers, of ball bearing type, smooth and free rolling.

2.2.6 For two-way center draw overlap masters shall be used and for one-way draw butt masters shall be used, unless indicated otherwise on drawings or specifications.

2.2.7 Where cord-traversed track is used, provide floor mounted cord tension pulley located as indicated on drawings and specifications. Where baton operated track is used, baton shall be attached to master carrier in such manner to eliminate twist, provide even pull distribution, and smooth operation; baton shall be clear fiberglass, unless specified otherwise in drawings or specifications and of the length specified but in no case should baton end be higher than 60" (1520 mm) above finished floor.

2.2.8 End pulleys and floor pulleys shall be ball bearing.

2.2.9 Cord shall be as recommended by manufacturer for track, Drapery weight and indicated use, and shall be of sufficient strength and stretch to prevent jamming and provide smooth operation of Draperies.

2.2.10 Glides/carriers shall be positioned so that Drapery headings will stand erect and stack evenly.

### **2.3 Other Materials**

2.3.1 All trim or other materials shall be provided as specified and shall be of the highest quality.

## **PART THREE: EXECUTION**

### **3.1 Fabrication - General Construction**

3.1.1 Contiguous Drapery panels shall be fabricated from the same weaving or dye lots to insure matching with regard to weave textures, pattern and color. Where one width is joined to another the selvage edge shall be removed and a French seam (or a Sew and Serge Machine) used. All Draperies shall hang straight and even with no pulling or puckering of fabric or loose threads. No panels showing defects or horizontal seams shall be permitted.

- 3.1.2 All patterns shall be matched exactly at each vertical seam. All vertical seams shall be joined by over lock stitch and free from puckering. This vertical seam shall fall behind pleats from top to bottom. All seams shall be surged.
- 3.1.3 Unless otherwise specified, fullness shall be 200% (two and one-half times). Stack back width to allow maximum exposure of glass; stack back widths to be equal at 2-way center draw conditions. All pleats are to be evenly spaced, unless specifically approved otherwise by Consultant.
- 3.1.4 All threads shall match, as closely as possible, the material on which it is to be used.
- 3.1.5 Lined Drapery shall have lining sewn so only lining material is seen from exterior of building. Lined Drapery shall have four inch (4" or 100 mm) single turned bottom hem, which shall be blind stitched uniformly and even with covered weights at each vertical seam and side hem. Side hems shall be 1-1/2" double turned and blind stitched with the proper tension so that there shall be no puckering.
- 3.1.6 Unlined Drapery shall have four inch (4" or 100 mm) double turned bottom hem, which shall be blind stitched uniformly and even with covered weights at each vertical seam and side hem. Side hems shall be 1-1/2" (40 mm) double turned (triple thickness) and blind stitched with the proper tension so that there shall be no puckering.
- 3.1.7 All Drapery weights shall be of appropriate size and weight for Drapery fabric and construction to assure proper hanging of Drapery with no sagging or pulling.
- 3.1.8 Open ends of hems are to be closed by hand with blind stitching.
- 3.1.9 For two-way center draw conditions, the full fabric widths are to occur at the center parting with partial widths (no less than 1/2 width) being equal and occurring only at the wall side of each draw



section. For one-way draw conditions, the full fabric widths are to be centered on the total panel width with partial widths (no less than 1/2 width) being equal and occurring only at the sides.

- 3.1.10 Over drapery length shall be floor to ceiling, unless specified otherwise, with a maximum of 3/4" (20 mm) clear and a minimum of 1/2" (12 mm) clear from floor at time of installation.
- 3.1.11 Under drapery length shall be floor to ceiling, unless specified otherwise, with a maximum of 1" (25 mm) clear and a minimum of 3/4" (20 mm) clear from floor at time of installation.
- 3.1.12 All buckram used shall be triple dip washable and must extend the entire width of the panel in one continuous piece.
- 3.1.13 Where patterns with repeats are specified, and are used at more than one window opening per room or in more than one room, Draperies shall be cut individually per opening and per room, so that all pattern designs match identically at each window both horizontally and vertically.
- 3.1.14 All fabric shall be cut on the thread and table square to insure proper "square ness".
- 3.1.15 All trimming is to be hand or machine sewn as detailed.
- 3.1.16 All hems and/or seams shall be in such a manner as to appear finished, clean and neat on both sides, with no stitching showing on the face of the fabric. All hems/seams shall be stitched with the proper tension so that there shall be no puckering.
- 3.1.17 All Drapery shall extend the full length of the tracks. Two-way draw, center-parting Drapery shall overlap at least three inches (3" or 75 mm) at their opening.
- 3.1.18 Upon approval by Consultant, fabric may be railroaded to avoid vertical seams when such

orientations do not result in horizontal seams and when pattern does not require vertical orientation. All drapery of the same fabric in a room/area shall have the same fabric orientation.

- 3.1.19 Lined draperies must have all seams on face fabric and lining pressed open before the lining is attached. All lining seams must coincide with face fabric seams.

### **3.2 Fabrication - Specific Construction**

3.2.1 All Draperies indicated on the drawings or specifications, as French Pleated or Pinch Pleated shall be fabricated according to paragraph 3.1 above and as follows:

- a. Drapery shall have sewn French Pleats/Pinch Pleats evenly spaced, with no more than 4" (100 mm) pleat spacing, and tacked at two and one-half to three and one-half inches (2-1/2" - 3-1/2") (60 - 90 mm) from the top. If necessary, a second tacking will be required at the tops of pleats for appearance retention depending on the fabric used.
- b. Headings for unlined Drapery shall be five inch (5") (130 mm) double turned over buckram. Headings for lined Drapery shall be five inch (5") (130 mm) single turned over buckram.
- c. All lined and unlined headings shall use heavy-duty hooks.

3.2.2 All Draperies indicated on the drawings or specifications as Ripple fold or Roll Pleat shall be fabricated according to paragraph 3.1 above and as follows:

- a. All Draperies to be sewn as flat panels and fabricated per the recommendations of the hardware/heading tape system manufacturer, unless indicated otherwise.
- b. Manufacturers' stiffened nylon snap type, with snaps spaced evenly and to achieve the specified fullness, shall be sewn to the top of each panel with a 1" (25 mm) turned hem. Finished flat panel shall be fabricated so that it fits the companion track specified exactly.

- c. For lined Drapery 1" (25 mm) hem at heading tape shall be single turned hem; for unlined Drapery 1" (25 mm) hem at heading tape shall be double turned hem.

3.2.3 All Draperies indicated on the drawings or specifications to be fabricated with other specific construction methods shall be fabricated as indicated and according to the highest industry standard.

### **3.3 Installation**

3.3.1 After fabrication, all Drapery panels shall be pressed smoothly, folded appropriate to construction, packaged, tagged indicating final location and delivered to the site. Draperies shall be finally installed in such a manner that the heading shall not touch or scrape against ceiling, walls, vertical pocket surfaces, windows, sills, blinds or other similar objects when track-traversing mechanisms are normally operated. Drapery panels shall hang clear of the finished carpet as follows:

- a. Under drapery shall hang no more than 1" (25 mm) nor less than 3/4" (20 mm) clear of the finished carpet.

- b. Over drapery shall hang no more than 3/4" (20 mm) nor less than 1/2" (12 mm) clear of the finished carpet.
  - c. Where only one layer of Drapery occurs, Drapery shall hang no more than 3/4" (20 mm) nor less than 1/2" (12 mm) clear of the finished carpet.
- 3.3.2 Drapery tracks, as specified, shall be installed free of warps, bends or twists, true and level as indicated on plans and details. Track shall be custom cut to measure so that necessary cuts or splices shall not occur where any carriers or slides are required to pass over them. Cord retainer shall be installed so that traverse cords between the retainer and end pulley are untwisted, straight, plumb and under proper tension. No scratched, bent or similarly marred track, no burred screws or fasteners shall be permitted.
- 3.3.3 All installations shall be done in a workmanlike manner consistent with the standards of the industry and shall be guaranteed for one year.
- 3.3.4 All hardware shall be installed at each area using appropriate fastening device. Interior Contractor shall submit shop drawings on exact method of installation.
- 3.3.5 Where brackets are required specified hardware shall be installed in a workmanlike manner utilizing three screws in every bracket, one support 16" (400 mm) from each end bracket and a bracket or center support at least every 30" (760 mm) of rod width. All supports to be fastened with appropriate Phillips Head fastening devices.
- 3.3.6 Where attachment is direct, specified hardware to be fastened securely at 16" (400 mm) intervals through pre-drilled holes provided in track, and through holes in end pulleys, using appropriate Phillips Head fastening devices.
- 3.3.7 When installing tension pulleys use the minimum tension required for most efficient operation.
- 3.3.8 All Drapery shall be pressed before installation and

dressed down properly after installation.

- 3.3.9 Installation should not be completed until temperature and humidity in the building approximate the conditions that will exist when the building is occupied.
- 3.3.10 All draperies shall be removable from hardware for cleaning purposes. All metal permanently affixed to drapery shall be non-corrosive.
- 3.3.11 The Interior Contractor shall check and verify fit, size and ease of operation of all Drapery and track once installed.
- 3.3.12 The Interior Contractor shall correct any installation defects within a reasonable period of time.
- 3.3.13 The Interior Contractor shall be responsible for cleaning up any debris resulting from his work.
- 3.3.14 Written maintenance instructions on laundering and dry cleaning are to be provided to the owner at the time of final installation or delivery, and in accordance with Section 01720.

**END OF SECTION**