SECTION  – curtains and drapes

1. GENERAL
   1. SUMMARY
      1. Section Includes:
         1. Drapes.
         2. Drapery tracks.
         3. Motorized curtains for Auditorium.
   2. Reference standards
      1. Underwriters Laboratories of Canada (ULC):

SPEC NOTE: CAN/ULC S109 should be the testing standard used when Specifying Curtains and Drapes. Gensler has a flash note regarding the differences between CAN/ULC S102 and S109.

* + - 1. CAN/ULC S109-14R2019, Standard Method of Flame Tests of Flame-Resistant Fabrics and Films
  1. SUBMITTALS
     1. Product Data: For the following:
        1. Drapery Tracks: Include maximum weights of drapes that can be supported.
           1. Motorized Tracks: Indicate motor weights, motor-mounting requirements, and electrical requirements.
        2. Fabrics.
        3. Textile treatments.
     2. Shop Drawings:
        1. Drapery Tracks: Show installation and anchorage details and locations of controls.
           1. Motorized Tracks: Indicate dimensions, weights, and required clearances for track and motor and differentiate between manufacturer-installed and field-installed wiring.
        2. Drapes: Show sizes, locations, and details of installation.
     3. Samples: As follows:
        1. Drapery Tracks: 450mm (18”) long, with carriers, controls, and accessories.
        2. Drapery Fabrics: For each colour and pattern indicated, full width by 914mm (36”) long, from dye lot to be used for the Work and with specified textile treatments applied. Show complete pattern repeat if any. Mark top and face of fabric.
        3. Textile Trims: For each colour and pattern indicated, 450mm (18”) long.
        4. Drape Fabrication: For each heading, fabric, colour, and pattern indicated, a complete full-size panel to verify details of fabrication and thread colours.
     4. Samples for Initial Selection: For each type of product indicated.
     5. Samples for Verification: As follows:
        1. Drapery Tracks: 450mm (18”) long, with carriers, controls, and accessories.
        2. Drapery Fabrics: For each colour and pattern indicated, full width by 914mm (36”) long, from dye lot to be used for the Work and with specified textile treatments applied. Show complete pattern repeat if any. Mark top and face of fabric.
        3. Textile Trims: For each colour and pattern indicated, 450mm (18”) long.
        4. Drape Fabrication: For each heading, fabric, colour, and pattern indicated, a complete full-size panel to verify details of fabrication and thread colours.
  2. INFORMATIONAL SUBMITTALS
     1. Coordination Drawings: For drapery track installation; reflected ceiling plans drawn to scale and coordinating track installation with openings and ceiling-mounted items, on which the following items are shown:
        1. Suspended ceiling components.
        2. Structural members to which motors are attached.
        3. Size and location of motor access panel.
     2. Product Certificates: For each drapery fabric treated with flame retardant, signed by fabric supplier, and indicating treatment durability and cleaning procedures required to maintain treatment effectiveness.
  3. CLOSEOUT SUBMITTALS
     1. Maintenance Data: For products installed to include in maintenance manuals.
  4. MAINTENANCE MATERIAL SUBMITTALS
     1. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
        1. Drapery Track Carriers: For each size indicated, equal to five percent (5%) of amount installed, but no fewer than ten (10) of each size.
        2. Drapery Track Controls: For each type indicated, equal to five percent (5%) of amount installed, but no fewer than ten (10) of each type.
        3. Drapery Fabrics: For each fabric, colour, and pattern indicated, from the same product run, full-width lengths equal to 5 percent of amount installed, but no fewer than ten (10) yards of each fabric, colour, and pattern.
  5. QUALITY ASSURANCE
     1. Installer Qualifications: For drapes and drapery tracks, fabricator of drapes.
     2. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
        1. Build mock-up at location and in size shown on Drawings.
        2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
  6. FIELD CONDITIONS
     1. Field Measurements: Verify dimensions by field measurements before drape fabrication and indicate measurements on Shop Drawings.
     2. Scheduling: Do not deliver or install drapes until after other finish work, including painting, is complete and spaces are otherwise ready for occupancy.

1. PRODUCTS
   1. DRAPERY TRACKS

SPEC NOTE: Edit the track type below to reflect what is required on the Project. Delete manual or motorized track where not required on the Project.

* + 1. Manually Operated Track:
       1. Construction: Extruded aluminum, slotted for mounting at interval of not more than 610mm (24”) o.c.
          1. Lengths and Configurations: As indicated on Drawings.
          2. Support Capability: Weight of drape indicated.
          3. Finish: White baked enamel, unless otherwise indicated on the Drawings.
       2. Mounting Brackets: Aluminum, of type suitable for fastening track to surface indicated and designed to support weight of track assembly and drape plus force applied to operate track.
       3. Installation Fasteners: Sized to support track assembly and drape, and fabricated from metal compatible with track, brackets, and supporting construction. Provide two fasteners to fasten each bracket to supporting construction.
       4. Operation: Cord.
          1. Draw: One way, stack as indicated on Drawings.
          2. Operating Hardware Location: On stack side.
       5. Carriers: Rollers with snaps.
       6. End Stops: Manufacturer's standard.
       7. Pulleys: Standard duty.
       8. Model and Manufacturer: As indicated in Section 09 06 05 – Product and Finish Schedule.
    2. Motorized Track:
       1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
       2. Construction: Extruded aluminum, slotted for mounting at interval of not more than 610mm (24”) o.c.
          1. Lengths and Configurations: As indicated on Drawings.
          2. Support Capability: Weight of drape indicated.
          3. Finish: White baked enamel.
       3. Mounting Brackets: Suitable for fastening track to surface indicated and designed to support weight of track assembly and drape plus force applied to operate track.
       4. Installation Fasteners: Sized to support track assembly and drape, and fabricated from metal compatible with track, brackets, and supporting construction. Provide two fasteners to fasten each bracket to supporting construction.

SPEC NOTE: Edit the following information regarding the motor electrical requirements and travel speed as needed to reflect the motor that has been selected on the project.

* + - 1. Motor Operation: Low-voltage motor with built-in low-voltage interface for direct access to control systems, with thermal-overload switch; sized for weight of drape and track length indicated; and equipped with stops to prevent overdrawing.
         1. Control: Wall switch.
         2. Draw: Two-way, center opening.
         3. Electrical Requirements: 115 V/60 Hz/120 W/1.10 A, unless otherwise indicated by the motor manufacturer.
         4. Travel Speed: 6” (152 mm) per second.
      2. Carriers: Rollers with hooks, unless otherwise indicated.
      3. End Stops: Manufacturer's standard.
      4. Pulleys: Standard duty for non-auditorium space, and heavy duty for auditorium.
  1. DRAPES
     1. Source Limitations: Obtain each colour and pattern of drapery fabric and trim from one dye lot.
     2. Fire-Test-Response Characteristics: For fabrics treated with fire retardants, provide products that pass NFPA 701 and CAN/ULC S109 as determined by testing of fabrics that were treated using treatment-application method intended for use for this Project by a testing and inspecting agency acceptable to authorities having jurisdiction.

SPEC NOTE: Add finish numbers which are indicated in the Finish Schedule.

* + 1. Drapes (WT#): As indicated in Section 09 06 05 – Product and Finish Schedule.
       1. Stack Pleats: 120 percent fullness.
  1. DRAPE FABRICATION
     1. Fabricate drapes in heading styles and fullnesses indicated. Fabricate headings to stand erect. If less than a full width of fabric is required to produce panel of specified fullness, use equal widths of not less than one-half width of fabric located at ends of panel.
        1. One-Way-Stacking Drapes: Add 127 mm (5”) to overall width for returns.
        2. Center-Opening Drapes: Add 254mm (10”) to overall width for overlap.
     2. Seams: Sew vertical seams with twin-needle sewing machine with selvage trimmed and overlocked. Join widths so that patterns match, and vertical seams lay flat and straight without puckering. Horizontal seams are unacceptable.
     3. Side Hems: Double-turned, 38mm (1-1/2”) wide hems consisting of three layers of fabric, and blind stitched so that stitches are invisible on face of drape.
     4. Bottom Hems: Double-turned, 100mm (4”) wide hems consisting of three layers of fabric, and weighted and blind stitched so that weights and stitches are invisible on face of drape.
        1. Sew in square lead weights at each seam and at panel corners.

1. EXECUTION
   1. DRAPERY TRACK INSTALLATION
      1. Install track systems according to manufacturer's written instructions, level and plumb, and at height and location in relation to adjoining openings as indicated on Drawings.
      2. Isolate metal parts of tracks and brackets from concrete, masonry, and mortar to prevent galvanic action. Use tape or another method recommended in writing by track manufacturer.
   2. DRAPE INSTALLATION
      1. Where drapes abut overhead construction, hang drapes so that clearance between headings and overhead construction is 6mm (1/4”).
      2. Where drapes extend to floor, install so that bottom hems clear finished floor by not more than 25mm (1”) and not less than 13mm (1/2”).
      3. Where drapes extend to windowsill, install so that bottom hems hang above sill line and clear sill line by not more than 13mm (1/2”).
   3. ADJUSTING
      1. After hanging drapes, test and adjust each drapery track to produce unencumbered, smooth operation.
      2. Steam and dress down drapes as required to produce crease- and wrinkle-free installation.
      3. Remove and replace drapes that are stained or soiled.

END OF SECTION