

SECTION 12 22 16

**TECHNICAL SPECIFICATIONS  
DRAPERY, DRAPERY TRACK AND ACCESSORIES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. This section includes drapery, lining, electric-powered drapery tracks and accessories

**1.2 SUBMITTALS:**

- A. Submit SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
  - 1. Drapery and lining with Class A Fire Rating certifications, drapery tracks, traverse rod, electrical and motorized component schematics, certifications, and hardware.
- C. Submit samples of a minimum size of 12"x12" for drapery fabric, lining, and a single carrier with product specifications attached.

**1.3 APPLICABLE PUBLICATIONS:**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. NFPA 701 Fire Standard.
- C. ASTM International (ASTM):
  - B221 -14.....Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
  - B221M-13.....Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric)
  - E84-95 .....Class A Materials
- D. The Aluminum Association Publication (AA):
  - DAF 45-09.....Designation System for Aluminum Finishes
- E. VA Specification 11 05 12 for General Motor Requirements for Equipment

**PART 2 - PRODUCTS**

**2.1 MATERIALS:**

- A. Aluminum, Extruded: ASTM B221M (B221).
- B. Drapery and lining material in accordance with NFPA 701.

**2.2 DRAPERY AND DRAPERY TRACKS:**

- A. General: Fabricate motorized drapery tracks of extruded aluminum, with necessary hangers, fittings, fastenings, and curtain carriers. Provide interior finish of track suitable for passage of master carriers and other carriers.
  - 1. Provide traverse type tracks with center draw rod.
  - ~~2.~~ Purchase and supply adequate drapery fabric and lining for this job.
  - 3. Provide drapery that will cover the proposed area and have a seamless appearance.
  - 4. Material will be 100% inherently flame retardant polyester of velvet like texture where the weight per linear yard range is 24.5 - 25.5 ounces and approximate pile height is 0.120 inches. Add color fastness and crocking ratings and type of thread to be used.
- B. Tracks: Form of extruded aluminum 1.27 mm (0.050 inch) thick.
  - 1. Provide channel shape, flat profile or track with a cross section width and depth to carry the drapery without sagging.
  - 2. On bi-parting tracks, provide motorized two-wheel ball bearing end pulleys with zinc-coated steel housing at each end.
- C. Wall Mounting Brackets: Provide brackets of 1.27 mm (0.05 inch) aluminum to fit flush with track faces, and be of length to allow tracks to hang 63 mm (2-1/2 inches) from wall.
- D. Carriers: Ball bearing nylon rollers or non-binding two-wheel nylon rollers with eyes for drapery hooks. Provide one (1) carrier for each 101 mm (4 inches) of track. Provide master carriers with four (4) nylon wheels each.
- E. Accessories: Provide all component parts, including No. 4 drapery cord with a rayon center, end pulleys; batons track splicers, end shields, motorized wall pulleys, and fastenings.
- F. Provide curtain material to cover the field measured space with return, and with a 2x fullness factor. Color to be selected by the facility (Chaplain). The material must be submitted and approved. The material must meet all fire and safety requirements of NFPA 701. The curtain shall have a weighted bottom seam using rubber coated weights to allow for smooth flow when opening and closing. Drapery fabrics will be pre-shrunk.

**2.3 DRAPERY TRAVERSE ROD:**

- A. Provide heavy-duty rods, flat top type, formed of 0.96 mm (0.038 inch; 20 gauge) cold-rolled steel, with baked-on white enamel finish or finish approved by the facility.
- B. Provide traverse hardware for direction of travel, and location on wall, as required.
- C. Provide cotton motorized draw cord with rayon center, No. 4 size.
  - 1. Provide self-lubricating, nylon type carriers, brackets, and intermediate supports, and related components required for a complete working installation.

**2.4 FASTENERS:**

- A. Provide fasteners for installation as follows:

Fasteners	Structural Material
Wood or sheet metal screw	Wood
Self-tapping screw	Metal, sheet metal
Case hardened, self-tapping screw in pre-drilled hole	Solid masonry or concrete
Screw or bolt in expansion shield	Solid masonry or concrete
Toggle or molly bolt	Hollow masonry, gypsum wallboard, plaster

**2.6 FINISH:**

- A. Provide exposed surfaces with the following finish:
  - 1. Aluminum: Finish numbers for aluminum are in accordance with DAF 45.
    - a. AA-C22A31 finish chemically etched medium matte, with clear anodic coating, Class II Architectural 0.4 mils thick.
  - 2. Steel: Baked-on enamel or epoxy coating finish as standard with the manufacturer.

2.7 All necessary products and hardware to install electrical control motor and wall-mounted operator.

**PART 3 - EXECUTION**

**3.1 SITE VISIT**

There is no official site visit planned for this project. The Beckley VAMC Chapel is open to the public, and existing site conditions may be viewed between 7 AM and 5 PM during the week.

### **3.2 INSPECTIONS**

Installer will inspect all fabrics and materials for damage, fabric flaws, and proper sizes prior to scheduling the installation. Any claims for defect will be made in advance and requires notification to the VA Contracting representative.

### **3.3 INSTALLATION**

A. Drapery and Drapery Track: Set tracks straight and level, and rigidly anchor to surfaces with fastenings, as required by building construction. Finished drapes will be attached to track.

1. Drapery fabrication:

a. Fabrication shall be by an experienced worker with a minimum of 2 years' experience.

b. Curtain headers shall be 4" or better self-header backed with a fire resistant (FR)reinforcing material. Stitching shall be double row triple-ply twisted nylon or FR nylon blend color matched thread.

c. Seams: bottom hem shall be edge finished, double folded at top edge 1", and be 4" or more deep, using a blind hem stitch. All vertical seams shall be flat-fell seams of 1.5" and with finished edges to prevent raveling. Stitching shall be reinforced at the ends and shall be triple-ply twisted nylon or FR nylon blend color matched thread.

d. Fabric is to be free of defect with consistent stitching and no raveled edges. Stray threads are to be removed by the installers without damage to the fabric.

e. Direction of fabric shall be seamed with a consistent direction of the nap. Care shall be taken when pressing the velvet fabric, not to over-press or discolor the nap.

2. Install wall-mounted tracks with two (2) brackets 305 mm (1 foot) apart on each track end. Space intermediate supports not over 1219 mm (4 feet) apart. Leave sufficient clearance to allow for drapery heads.

- B. Drapery Traverse Rod and Motorized Controls: Provide for direction of travel, and location on wall or top inside of curtain box.
1. Space intermediate supports at maximum of 1270 mm (50 inches).
  2. Motorized controls will be wall mounted at an ADA compliant height and adjacent to the curtain location. Any associated wiring will run inside the walls and will not be visible. This is to include any conduit or junction boxes. All connection of electrical devices will be performed by the VA. Disconnection or service interruption to electrical power supplies will be coordinated with the facility Safety Engineer a minimum of 48 hours in advance.
  4. Test drapery track and motor to ensure proper operation. The work site will be left clean and undamaged. All materials will be wiped down (as appropriate), vacuumed, and loose threads removed. All cartoning materials will be removed from the space and disposed of at vendor's location.

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