

## SECTION 10600 - OPERABLE PARTITIONS

### City of San Diego, CWP Guidelines

#### PART 1 -- GENERAL

##### 1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing accordion type folding partitions and all appurtenant work, complete and operable.

##### 1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

- 1. Section 05500 Miscellaneous Metalwork
- 2. Section 06100 Rough Carpentry
- 3. Section 08710 Finish Hardware

##### 1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:

- 1. Uniform Building Code

##### 1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:

- 1. ASTM E 84                      Test Method for Surface Burning Characteristics of Building Materials
- 2. ASTM E 90                     Method for Laboratory Measurement of Airborne-Sound Transmission Loss of Building Partitions
- 3. ASTM E 413                    Classification for Determination of Sound Transmission Class

##### 1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

- 1.. Manufacturer's technical product data and installation instructions for each type of folding partition required.
2. Manufacturer's product literature on hardware, showing full range of standard types and finishes available.
3. Shop drawings showing complete details for fabrication and erection, including plans, elevations, large scale details, anchorages, and accessory items. If required, location template drawing shall be provided for items supported by or anchored to permanent construction.
4. Full range of samples covering of color and texture, including two verification samples, 6-inch by 6-inch, minimum, of each color and finish selected.
5. Certifications by independent testing laboratories for the following:
  - a. Sound Transmission Classification
  - b. Flame Spread Classification

#### 1.6 OWNER'S MANUAL

- A. The following shall be included in the OWNER'S MANUAL in compliance with Section 01300:
  1. Manufacturer's literature on care, stain removal, cleaning, and maintenance of the operable partition.

#### 1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. **Delivery of Materials:** Operable partitions and accessories shall be delivered in original, unbroken packages, containers, or wrappings, bearing the name of the manufacturer along with identification markings.
- B. **Storage:** All materials shall be carefully stored in an area that is protected from deleterious elements, and in a manner recommended by the material manufacturer.

#### 1.8 SITE CONDITIONS

- A. Operable partitions shall not be installed until wet construction work in the vicinity is completed and surrounding air has a moisture content of no more than 50 percent.
- B. Permanent heat, light, and ventilation shall be in place and operating prior to installation.
- C. Room temperature of at least 65 degrees F shall have been maintained in the space for a period of at least 7 days prior to delivery of materials.

#### 1.9 QUALIFICATIONS

- A. **Installer:** A firm approved in writing or licensed by the operable partition manufacturer and who has successfully installed units of comparable size and complexity in the recent past.

## **PART 2 -- PRODUCTS**

### 2.1 FOLDING PARTITIONS

- A. Folding partitions shall be sound insulated accordion type partitions having sound transmission class [40] as determined in accordance with ASTM E 413.
- B. Folding partitions shall be furnished complete with all required hardware including track, ceiling sweep guard, pull-in latching hardware, and trim.
- C. Partitions shall be top supported, manually-operated, full pantograph type fold, fabric covered panels with automatic air release venting feature for ease of operation.
- D. Folding mechanism shall be constructed of not less than 16 gauge galvanized or cadmium plated steel hinge plates with non-removable case-hardened steel pins located at the top, bottom, and intermediate spacings as recommended by the manufacturer, connected vertically by welded steel rods.
- E. Lead posts and jamb posts shall be constructed of not less than 18 gauge steel for units up to 10 feet high, and not less than 14 gauge steel for units over 10 feet high, formed to provide rigidity and light seal at perimeter construction.
- F. Carriers shall be 4 wheel type carriers at lead post and 2 wheel carriers at intermediate spacing as necessary for the size and weight of the partition to assure secure, easy and quiet operation.
  - 1. Units 8 feet tall or less shall be equipped with nylon wheels on steel shafts.
  - 2. Units over 8 feet tall shall be equipped with ball bearing wheels with nylon tread and steel shafts.
- G. **Acoustical Construction:** Manufacturer's standard construction shall be provided which meets the Sound Transmission Classification rating required. Perimeter seal sweep strips shall be provided for each side, top, and bottom, providing continuous contact with head and all surfaces for positive light and sound seal. Manufacturer's standard male and female sound and light seal shall be provided at the lead and back jamb posts.
- H. **Flame Spread Rating:** Operable partition installation shall contain only those facing materials which have a Flame Spread Rating of 25 or less when tested in accordance with ASTM E 84.

- I. **Tracks:** Manufacturer's standard extruded aluminum or steel track shall be provided with factory-applied corrosion-resistant finish. Track shall be properly sized to support the partition assembly and its operation without damage to track, folding unit, or adjacent surfaces.
1. Provide track switches and stops as indicated.
  2. Galvanized sheet steel or aluminum subchannel shall be provided to form a pocket for recessed suspension of the track.
  3. A metal ceiling contact guard shall be provided to protect the finish ceiling surface from damage by moving perimeter seals. Finish shall match other exposed metal.
- J. Hardware shall be manufacturer's standard, heavy duty manual operated metal pulls and latches in metal of type and finish as selected by the CONSTRUCTION MANGER.
1. Latch shall be provided which is operable from both sides of closed partition.

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NTS: SELECT FROM OPTIONS IN "2" BELOW TO MATCH CONFIGURATION OF OPERABLE PARTITION. EDIT "3" AND "4" BELOW OR DELETE AS APPROPRIATE.

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- [2. Provide non-ferrous jamb strip for single-operating partitions to assure tight closure by engaging rubber bumper on lead post.]
- [2. Provide center-meeting molding or strike for bi-parting partitions.]
- [3. Provide pendant pull near top of lead post in addition to standard pull for units over 9 feet tall.]
- [4. Provide upper draw latch with grip handle in addition to standard latch for units over 11 feet tall.]

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NTS: SELECT "5." IF KEY LOCKING IS DESIRED. EDIT AS REQUIRED FOR ONE- OR TWO-SIDE KEYING.

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5. [Partitions shall be provided with deadlock to receive cylinder as specified in Section 08710. Cylinder shall be operable from [both sides] [designated side] unless otherwise indicated.]

k. Partition finish covering shall be attached to support frame in a concealed manner at sufficient intervals to prevent sagging and separation and to permit on-site removal and repair. Locate vertical seams in "valleys," and provide turned hems at the top and bottom of partition. Color of covering material shall be as selected by the CONSTRUCTION MANAGER.

## 2.2 MANUFACTURERS

A. Products shall be manufactured by the following (or equal):

1. Modernfold, Inc., "Soundmaster 12," with "Symphony" option foam and polyester knit laminate backed fabric covering
2. Holcomb & Hoke Manufacturing Co., Inc., FolDoor, "Super Soundguard X12," with "Whisper Option" vertical ribbed carpet covering.

## PART 3 -- EXECUTION

### 3.1 INSTALLATION

- A. Operable partitions shall be installed by manufacturer authorized, factory-trained mechanics who are thoroughly familiar with all phases of the installation.
- B. Installation shall comply with manufacturer's recommended installation procedures, unless more stringent requirements are indicated elsewhere. Drill and tap as necessary and securely anchor track and accessories in accurate location. Install track in lengths as long as practicable, with flush, hairline joints.
- C. The CONTRACTOR shall coordinate and provide steel support framing and diagonal bracing necessary to hang the folding partition.
- D. Operable partitions shall be installed such that the indicated Sound Transmission Classification rating is maintained. Seals shall fully contact entire perimeter when unit is in closed position, forming a completely light- and sound-tight barrier.
- E. Operable partitions shall be adjusted as necessary to assure smooth, quiet operation without warping or binding. Operating hardware shall be checked and adjusted so that latches engage accurately and positively without forcing or binding.

\*\* END OF SECTION \*\*

