**Gymdoor 801 Continuously-Hinged**

**Electrically Operated Panels**

**Part 1 - General**

1.01 DESCRIPTION

 A. General

 1. Furnish and install operable partitions and suspension system. Provide all labor, materials, tools, equipment, and services for operable walls in accordance with provisions of contract documents.

1.02 RELATED WORK BY OTHERS

 A. Preparation of opening will be by General Contractor. Any deviation of site conditions contrary to approved shop drawings must be called to the attention of the architect.

 B. All header, blocking, support structures, jambs, track enclosures, surrounding insulation, and sound baffles as required in 1.04 Quality Assurance.

 C. Pre-punching of support structure in accordance with approved shop drawings.

 D. All electrical wiring from the motor control cabinet to the source and from the motor control cabinet to the key switches.

 E. Paint or otherwise finishing all trim and other materials adjoining head and jamb of operable partitions.

1.03 SUBMITTALS

 A. Complete shop drawings are to be provided prior to fabrication indicating construction and installation details. Shop drawings must be submitted within 60 days after receipt of signed contract.

1.04 QUALITY ASSURANCE

 A. Preparation of the opening shall conform to the criteria set forth per ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions.

 B. The partition STC (Sound Transmission Classification) shall be achieved per the standard test method ASTM E90 and E413-87. All tests must be from an independent, currently operating, NIST-accredited Laboratory available to verify results.

 C. Floor Conditions: In order to be able to operate in the best possible manner, ensure that the variation in floor levels, along the centerline of the partition will not exceed +/- 1/4” [6mm] per 10’-0” [3000mm], on a non-cumulative basis, and for 30” [760mm] on each side of the partition center line. The maximum allowable variation from one end of the opening to the other will not exceed 1/2” [12mm].

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

 A. Proper storage of partitions before installation, and continued protection during and after installation will be the responsibility of the General Contractor.

1.06 WARRANTY

 A. Partition Panels shall be guaranteed for a period of two years with Drive Unit, Track and Carriers guaranteed for a period of ten years. This guarantee is against defects in material or workmanship of manufacturer’s product.

**Part 2 - Products**

2.01 MANUFACTURERS

 A. Manufacturers: Subject to compliance with requirements, provide products by the following:

 1. Moderco Inc.

2.02 MATERIALS

 A. Product to be top supported Gymdoor 801 Continuously-Hinged, Electrically Operated panels as manufactured by Moderco Inc.

 1. Panels shall be nominally 3” [76 mm] thick, in manufacturer’s standard equal widths up to 48 1/2” [1230 mm], and continuously hinged, electrically operated.

 2. Panel faces shall be of minimum 18 ga. galvanized steel sheets welded to an 16 ga. steel frame with appropriate substrates to meet the STC requirement.

 3. Interlocking vertical seals between the panels shall consist of tongue and groove vinyl astragals creating an acoustical interlock between panels.

 4. Horizontal top seals shall be continuous-contact sweeps. Horizontal bottom seals shall be adjustable seals with fixed sweeps.

 5. The panel hinges shall be steel butt-type hinges. The number and spacing of the hinges shall be as required by the manufacturer for the height & weight door specified.

 B. Weight of the panels shall not exceed 5.1 lbs/sq.ft [25 kg/sq.m] based on Options selected.

 C. Suspension system:

 1. Track shall be a 5” [127 mm] steel beam weighing 10 lbs/ft [15kg/m]. Track shall include support brackets and minimum 5/8” [16 mm] diameter rods, spaced to manufacturer’s standards.

 a. Every other panel shall be supported by one 4-wheeled carrier. Wheels to be sealed steel ball bearings. Carrier design shall ensure that all wheels remain in contact with the track during normal movement of the panels.

 2. Drive System:

 a. The drive unit (located at the storage end of the unit) shall be equipped with a C.S.A. (UL) approved 1 HP, 208 V, 3-phase, 60 Hz motor.

 b. The drive unit shall be equipped with an endless 3/16” [5 mm] aircraft type cable and limit switches

 c. Operation of the partition shall require the use of two (2) simultaneously operated key switches positioned on opposite sides of the partition with a clear unobstructed view during operation of the partition.

 d. The travel limits of the partition shall be controlled by limit switches positioned on the track system, thereby ensuring full travel before shut off.

 D. Finishes

 1. Face finish shall be: (select as required):

 a. Reinforced vinyl wallcovering with woven backing, weighing 21 oz. or more per lineal yard [545 g/m]. Color shall be selected from manufacturer’s standard color selector.

 b. Vertical rib carpet wallcovering with acrylic backing (NRC 0.20). Color shall be selected from manufacturer’s standard color selector.

 Optional:

 (1) C.O.M. / Customer’s Own Material; Customer supplied & factory applied (requires factory approval for manufacturing compatibility)

 (2) C.S.M. / Customer’s Specified Material; Factory supplied & factory applied (requires factory approval for manufacturing compatibility)

 E. Accessories/Options

 1. Pass Door: ADA-compliant, located as indicated on shop drawings. The door shall be of the same construction and thickness as other panels.

 2. Pocket door (on model 8010).

 3. Optional safety items:

 a. Photo-electric sensors (prevents operation if someone is in the area of the partition)

 b. Safety mats in pocket area (prevents operation if someone or something is in the pocket)

 c. Safety lead edge (stops partition if it strikes an object)

2.03 OPERATION

 A. Panels shall be electrically operated, top supported, continuously hinged.

 B. Continuous contact top and adjustable bottom sweeps.

2.04 ACOUSTICAL PERFORMANCE

 A. Acoustical performance shall have been tested at an NIST-accredited, independent laboratory in accordance with ASTM E90. Standard panel construction shall have obtained an STC rating of (select one) 43 or 49

 1. Copies of the written test report are to be made available upon request. Tests must have been conducted at a laboratory available for verification of results.

**Part 3 - Execution**

 A. Installation.

 1. The complete installation of the operable wall system shall be by an authorized factory-trained installer and be in strict accordance with the approved shop drawings and manufacturer’s standard printed specifications, instructions, and recommendations.

 B. Cleaning

 1. All track and panel surfaces shall be wiped clean and free of handprints, grease, and soil.

 2. Packing and other installation debris shall be removed from the job site.

 C. Training

 1. Installer shall demonstrate proper operation and maintenance procedures to owner’s representative.

 2. Operating keys and owner’s manuals shall be provided to owner’s representative.