**SPECIFICATIONS - SECTION 10 22 26 OPERABLE PARTITIONS**

**Part 1 – General**

**1.1 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.

**1.2 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 1.4 Quality Assurance.

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

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

E. All electrical wiring from the motor control cabinet ro the power source and from the motor control cabinet to the key switches.

**1.3 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.

**1.4 Quality Assurance**

A. Installation shall be performed by an installer certified by the manufacturer.

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

C. The partition STC (Sound Transmission Classification) shall be achieved per the standard test method ASTM E90-99 and E413-87. Test run under ASTM procedures prior to E90-99 shall not be permitted. All tests must be from an independent, currently operating, NVLAP-accredited laboratory available to verify results.

**1.5 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.

**1.6 Warranty**

A. Partition panels shall be guaranteed for a period of two years with all mechanical parts including 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, excluding abuse.

**Part 2 – Products**

**2.1 Manufacturers**

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

1. Moderco Inc.

**2.2 Operation**

A. Signature 733-EG electrically operated, top supported, continuously hinged panels.

B. Initial seal:

 1. Blub seal.

C. Final closure (select one):

1. Wall jamb.

2. 6" [152mm] beyond face of acoustical pocket door. (Optional)

**2.2 Panel construction**

A. Nominal 3" [76mm] thick panels, up to 48 1/2" [1230mm] width. Framing members to be 18 ga. c-shaped steel channels welded together at the corners with double channels at the top of the panel. Trolley pipes welded to double channels. Panel cavity to be filled with one 1" [25mm] fiber glass panel between two 1" [25mm] cardboard honeycomb panels. Panel faces to be welded to panel frame.

B. Acoustical rating (select one):

 1. 43 STC.

 2. 49 STC.

C. Panel face construction:

1. Roll-formed galvannealed steel skins. Steel thickness based on STC rating.

D. Hinges:

1. Full leaf steel butt hinges fastened to reinforcement plates welded to panel frame.

E. Vertical trims:

 1. Trimless vertical edges.

F. Panel weight:

1. 43 STC: 4.1 lbs./sq.ft [20 kg/sq.m].

2. 49 STC: 5.1 lbs./sq.ft [25 kg/sq.m].

**2.4 Panel finishes**

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

1. Factory applied Class A reinforced vinyl wallcovering with woven backing, weighing 21 oz/lin.yard [545 g/lin.m]. Color selected from manufacturer’s standard color selector.

2. Factory applied Class A vertically ribbed polyester carpet (NRC 0.20). Color selected from manufacturer’s standard color selector. (Optional)

3. Customer's own material (C.O.M.) supplied to and applied by Moderco. (Subject to approval.) (Optional)

4. Customer's specified material (C.S.M.) procured and applied by Moderco. (Subject to approval.) (Optional)

5. Uncovered. (Optional)

B. Panel frame finish shall be (select one):

1. Black powder coating.

2. Powder coating. Color selected from RAL Classic color system. (Optional)

3. Custom powder coating. (Color chip to be supplied to Moderco. Moderco's color-match must be approved by architect prior to any material being released for fabrication) (Optional)

**2.5 Sound seals**

A. Vertical seals:

1. Deep nesting aluminum and pvc tongue and groove interlocking astragal in each panel edge.

B. Horizontal seals:

1. Type FV: 1" [25mm] fixed pvc top sweeps and 3" [76mm] adjustable bottom seals.

**2.6 Suspension system**

A. Tracks and trolleys:

1. #80 track: 5" [127mm] steel beam with aluminum soffit trims supported by pairs of 5/8" [16mm] dia. threaded rods connected to structural support with hanger brackets.

a. #80 trolley: Each trolley shall have four precision ground ball bearing wheels with steel tires. Each alternating panel to be supported by one trolley.

2. Drive System:

a. UL/ULC listed drive unit with NEMA-1 motor enclosure and controls and control enclosure conform to ANSI/NEMA ICS1, ICS 2 and ICS 6. Drive unit located at the storage end.

b. 1.5 HP, 208 V, 3-phase, 60 Hz motor.

c. Driven by a 5/16” [8 mm] steel cable.

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

e. Emergency release allows manual operation during power outage.

3. Operation of the partition shall require the use of two simultaneously activated control stations positioned on opposite sides of the partition with a clear unobstructed view during operation of the partition.

(Select control station layout)

 a. Control stations to be 3-position spring-loaded key switches.

b. Control stations to be one 3-position spring-loaded key switch and one push button switch.

B. Track finish:

 1. #80 soffit trims shall be (select one):

 a. Black powder coating.

 b. Powder coating. Color selected from RAL Classic color system. (Optional)

c. Custom powder coating. (Color chip to be supplied to Moderco. Moderco's color-match must be approved prior to any material being released for fabrication) (Optional)

**2.7 Optional features**

A. ADA-compliant single pass through door:

 1. Same construction and face finish as partition panels.

2. Standard hardware:

 a. Flush pull on each side.

b. Double ball catch.

 3. Optional hardware (select as required):

a. Concealed automatic closer.

b. Self-luminous exit sign:

(i). “Running Man” exit sign with green faceplate (standard outside USA, optional in USA). \*

(ii). “EXIT” sign with red faceplate (standard in USA, optional elsewhere). \*

(iii). “EXIT” sign with green faceplate (optional). \*

c. Deadbolt lock. \*

d. Window frame (glazing by others).

e. Door viewer.

*(\* An exit sign and a deadbolt lock will not be installed together on the same door.)*

B. Work surfaces (select as required):

1. Surface-mounted trimmed steel white marker boards.

2. Surface-mounted trimmed porcelain white marker boards.

3. Surface-mounted trimmed natural cork tack boards.

4. Recessed eraser boxes.

C. Pocket door (select as required):

 1. Acoustical pocket door.

2. Non-acoustical pocket door.

D. Safety features (select as required):

1. Photo-electric sensors on each side of the partition will stop the drive unit when either infra-red beam is disrupted.

 2. Safety lead edge will stop the drive unit when contact is detected during deployment.

 3. Recessed safety mats at the stack area will stop the drive unit when pressure is detected.

**Part 3 – Execution**

**3.1 Installation**

A. 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 installation instructions.

**3.2 Cleaning**

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

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

**3.3 Training**

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

B. Keys and owner’s manuals shall be provided to owner’s representative.