**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.

**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 Insurance**

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, NIST-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 track and carriers guaranteed for a period of five 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. Excel 742 manually operated, top supported paired panels.

B. Initial seal (select one):

 1. Bulb seal.

2. Fixed wall jamb. (Optional)

C. Final closure (select one):

1. Telescopic closure panel equipped with a telescopic jamb mounted to a rack and pinion mechanism and extended with a lever handle.

2. Hinged closure panel (up to 12'-0" [3658mm] height). (Optional)

a. Same construction and face finish as partition panels.

b. Standard hardware:

 (i). Flush pulls and roller latch.

 c. Optional hardware (select one):

(i). Panic bar with non-lockable lever.

(ii). Panic bar with lockable lever.

(iii). Deadbolt lock.

**2.2 Panel construction**

A. Nominal 4" [102mm] 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 faces to be welded to panel frame.

B. Acoustical rating (select one):

 1. 43 STC.

 2. 48 STC.

 3. 50 STC.

 4. 54 STC.

C. Panel face construction (select one):

1. Roll-formed galvannealed steel skins laminated to 1/2" [13mm] gypsum board and welded to panel frame. Steel thickness based on STC rating.

2. 1/2" [13mm] tackable gypsum board with steel angles welded to panel frame. (43 STC panels only.) (Optional)

D. Hinges:

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

E. Vertical trims (select one):

 1. Trimless vertical edges.

2. Protective trims cover and protect all edges of the panel faces and face finish. (Optional)

F. Panel weight:

1. Between 5.5 to 9.2 lbs/sq.ft [27 to 45 kg/sq.m] (based on STC rating).

**2.4 Panel finishes**

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

1. Factory applied 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 polyester or olefin/polyester stain-resistant fabric. Color selected from manufacturer’s standard color selector. (Optional)

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

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

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

6. Full height steel marker board with roll-formed vertical edges. (Optional)

7. Uncovered (not available on 43 with gypsum board faces and trimless edges). (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 FA: 1" [25mm] fixed pvc top sweeps and automatically operated bottom seals. Bottom seals automatically drop as panel are positioned without use of a tool. Bottom seals retract automatically when panel is pulled away from wall or adjacent panel.

 a. FA-2: 2" [51mm] floor clearance with 1 1/2" [38mm] operating range.

**2.6 Suspension system**

A. Track and trolleys (select one):

1. #45-T aluminum track: 6063-T6 aluminum alloy extrusion with integral soffit trim supported by pairs of 3/8" [10mm] dia. threaded rods connected to structural support, with or without optional hanger brackets.

a. #45 trolley: Each trolley shall have four precision ground ball bearing wheels with nylon tires.

b. Articulated trolley body will keep all wheels on track rolling surfaces at all times.

c. Each panel to be supported by one trolley.

2. #72 steel track: 11 ga. roll-formed steel with integral soffit trim supported by pairs of 3/8" [10mm] dia. threaded rods connected to structural support with hanger brackets. (Optional)

a. #72 trolley: Each trolley shall have four precision ground ball bearing wheels with steel tires.

b. Each panel to be supported by one trolley.

B. Track finish (select applicable):

 1. Aluminum track finish shall be (select one):

 a. Clear satin anodized.

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. Steel track finish shall be (select one):

 a. White 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. Roller latch.

 3. Optional hardware (select as required):

a. Concealed automatic closer.

b. Panic bar with non-lockable lever.

c. Panic bar with lockable lever.

d. Self-illuminated exit sign. \*

e. Green running man self-illuminated exit sign. \*

f. Deadbolt lock. \*

g. Window frame (glazing by others).

h. 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 of same construction and same finish as partition panels.

2. Non-acoustical pocket door of same basic construction and same finish as partition panels.

**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. Operating handle and owner’s manuals shall be provided to owner’s representative.