

SECTION 10 65 00 OPERABLE PARTITIONS

PART 1 – GENERAL

1.1 CONDITIONS OF THE CONTRACT

- A. Conditions of the Contract, DIVISION 00 and General Requirements, DIVISION 01 govern work under this Section.

1.2 SUMMARY / DESCRIPTION

- A. Section includes furnishing and installing operable partitions and suspension system, including all labor, materials, tools, equipment, and services for operable walls in accordance with provisions of contract documents.

1.3 SUBMITTALS

- A. Shop drawings: Include layout plans, standard conditions, special conditions and details.
- B. Samples: Fabric samples.

1.4 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 methods ASTM E90.
- C. Noise isolation classifications shall be achieved per the standard test methods ASTM E336 and ASTM E413.
- D. Noise Reduction Coefficient (NRC) ratings shall be per ASTM C423.
- E. Rack testing for 10 years. (tensional strength stress test)
- F. The manufacturer shall have a quality system that is registered to the ISO 9001 standards.

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 system shall be guaranteed for a period of two years against defects in material and workmanship, excluding abuse.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Upon compliance with all of the criteria specified in this section, provide one of the following:
 - 1. Hufcor
 - 2. Approved equal.

2.2 MATERIALS

- A. Product shall include a top supported operable partition system. Design is based on Series 641 individual, Omni-directional panels as manufactured by Hufcor Inc.
1. Panels shall be nominally 4” thick and a nominal 48” in width.
 2. Panel faces shall be laminated to appropriate substrate to meet the STC requirement in 2.04 Acoustical Performance.
 - a. Provide manufacturer’s standard substrate material.
 3. Frames shall be of 16 gauge painted steel with integral factory applied aluminum vertical edge and face protection.
 4. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.
 5. Horizontal top seals shall be retractable. Provide 1” nominal operating clearance, and exert upward force when extended. All panels, including pass door panels and lever closure panels must have retractable top and bottom seals.
 6. Horizontal bottom seals shall be retractable. Provide up to 2” nominal operating clearance, and exert downward force when fully extended. Optional:
 - a. Horizontal bottom seals shall be retractable, provide 4” nominal operating clearance, and exert 97 lbs. [44 kg] downward force when fully extended.
 - b. Horizontal bottom seals shall be fixed continuous contact 4-finger vinyl.
 7. Horizontal trim shall be of aluminum.
- B. Weight of the panels shall be 7.8-13.6 lbs./sq. ft. [37.8.2-66.4 kg/sq.m].
- C. Suspension system:
1. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by pairs of minimum 3/8” dia. threaded steel hanger rods. Pairs of rods are directly attached to the track, no single point attachment allowed. L, T, or X intersections shall be factory assembled and welded.
 - a. Each panel shall be supported by two 2-wheeled counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires.
- D. Finishes
1. Face finish shall be a factory applied reinforced vinyl fabric with woven backing, weighing not less than 15 oz. per lineal yard [465 g/m]. Color shall be selected from manufacturer’s standard color selections.
 2. Exposed metal trim and seal color shall be as selected by the Architect.
 3. Aluminum track shall be in white color.

2.3 OPERATION

- A. Panels shall be manually moved from the storage area, positioned in the opening, and seals set.
- B. Retractable Horizontal Seals
1. Retractable horizontal seals shall be activated by a removable quick-set operating handle located approximately 42” from the floor in the panel edge.
 2. Top and bottom retractable seals shall be operated simultaneously.
 3. Seal activation requires approximately a 190 degree turn of the removable handle.
- C. Final partition closure to be by lever closure panel with expanding jamb which compensates for minor wall irregularities and provides a minimum of 250 lbs. [113.4 kg] seal force against the adjacent wall for optimum sound control. The jamb activator shall be located approximately 45” from the floor in the panel face and be accessed from either side of the panel. The jamb is equipped with a mechanical rack and pinion gear drive mechanism and shall extend 4”-6” by turning the removable operating handle.

- D. Stack/Store Panels: Provide retractable seals with removable operating handle and move to storage area.

2.4 ACOUSTICAL PERFORMANCE

- A. Acoustical performance shall be tested at a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and in accordance with ASTM E90 Test Standards. Standard panel construction shall have obtained an STC rating of 52.
 - 1. Complete, unaltered written test report is to be made available upon request.

PART 3 – EXECUTION

3.1 INSTALLATION / MOUNTING CONDITIONS

- A. Verify that the beam, walls, floor and other conditions are true and plumb, or acceptable for proper installation of the system. Do not proceed until the conditions are acceptable.
- B. The complete installation of the operable wall system shall be by an authorized factory-trained installer and shall be in strict accordance with the approved shop drawings and manufacturer’s standard printed specifications, instructions, and recommendations.
- C. System shall be installed per the manufacturer’s recommendations. Panels shall be installed so that they are plumb, true to level, even and move as intended. Make adjustments as necessary so that the panels move in a smooth and even manner, readily operable by any adult.
- D. Cleaning: Upon completion perform the following:
 - 1. All track and panel surfaces shall be wiped clean and free of handprints, grease, and soil.
 - 2. Cartons and other installation debris shall be removed to onsite waste collection area, provided by others.
- C. Training: As a requirement of this section, perform the following:
 - 1. Installer shall demonstrate proper operation and maintenance procedures to owner’s representative.
 - 2. Operating handle and owner’s manuals shall be provided to owner’s representative.

END OF SECTION 10 65 00

PAGE LEFT INTENTIONALLY BLANK