

Part 1 GENERAL

1.01 DESCRIPTION

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

1.03 SUBMITTALS

- A. Completed shop drawings are to be provided prior to fabrication indicating construction and installation details. Shop drawings must be submitted within 14 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 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.

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

Part 2 PRODUCT SPECIFICATION

2.01 ACCEPTABLE MANUFACTURERS

- A. Upon compliance with all of the criteria specified in this section, Manufacturers wishing to bid products equal to the product specified must submit to the architect 10 days prior to bidding complete data in support of compliance and a list of three past installations of products similar to those listed. The submitting manufacturer guarantees the proposed substituted product complies with the performance items specified and as detailed on the drawings.

2.02 PRODUCT CONSTRUCTION DETAILS

- A. The product shall be HUF COR 7000 Series Operable Wall manufactured by either HUF COR INC and/or subsidiaries.
- B. PANEL CONSTRUCTION
 - 1. Panels shall be nominally 97mm thick and up to 1219mm in width.
 - 2. Panel faces shall be laminated to appropriate substrate to meet the STC requirement in 2.04 Acoustical Performance.
 - a. Optional substrate material (Not all substrates are available for all STC ratings. (Please consult Hufcor for more information for steel, non-steel or medium density fiberboard).
 - 3. Horizontal Splice: There will be a horizontal splice placed at intervals heights, depending on the substrates manufacturing length limitations.
 - 4. The frames shall be factory applied with clear anodized architectural grade extruded aluminum alloy 6063-T6.
 - a. Optional face finish shall wrap around concealed the vertical edge trims
- C. ACOUSTICAL SEALS
 - 1. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.
 - 2. Horizontal sound seals between panels and top supporting track shall be retractable and provide 32 mm nominal operating clearance.
 - a. Horizontal sound seals between panels and floor shall be retractable and provide 32 mm nominal operating clearance to accommodate normal floor gradient.
 - b. Optional retractable seal up to 100 mm nominal operating clearance (Consult Hufcor for more information).
 - 3. Top and bottom horizontal retractable seals shall provide a minimum of 45 kg seal force respectively when seals are extended.

D. ACTIVATING MECHANISM

1. Top and bottom horizontal seals shall be operated simultaneously by a removable handle with a "Quick-Set Half-Crank" mechanism instead of multiple cranks/turns to ensure fast set up and ease of operation.

E. SUSPENSION SYSTEM

1. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6.
2. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier.
3. The panels are top hung with : (select as required)
 - a. Omni direction design, Each panel shall be supported by two 2-wheeled 'counter-rotating' horizontal carriers.
 - b. Paired-design; Each panel shall be supported by center hung "one 4-wheeled carrier"
4. Wheels to be of precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires (DELRIN) that are capable to negotiate square or angled corners smoothly without switches.

F. FINISHES

1. The face finishes shall be factory applied with (select as required)
 - a. exposed vertical trims or
 - b. concealed vertical trims
2. Face finish shall be factory applied with (select as required):
 - a. Vinyl laminates, color shall be selected from "Hufcor Finishes Selector"
 - b. Fabrics, color shall be selected from "Hufcor's Finishes Selector"
 - c. High pressure laminates, color shall be selected from "Hufcor Finishes Selector"
 - d. Other customers selection shall require factory approval for compatibility confirmation.

2.03 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
 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 110 kg seal force against the adjacent wall for optimum sound control.

2.04 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.
- B. Standard panel construction shall have obtained an STC rating of ____ (Select as required) [43/47/49/51/53/55] dB.
- C. Complete, unaltered written test report is to be made available upon request.
- D. Predictive test report is to be made available upon request for alternative construction design

Part 3 EXECUTION

3.01 INSTALLATION

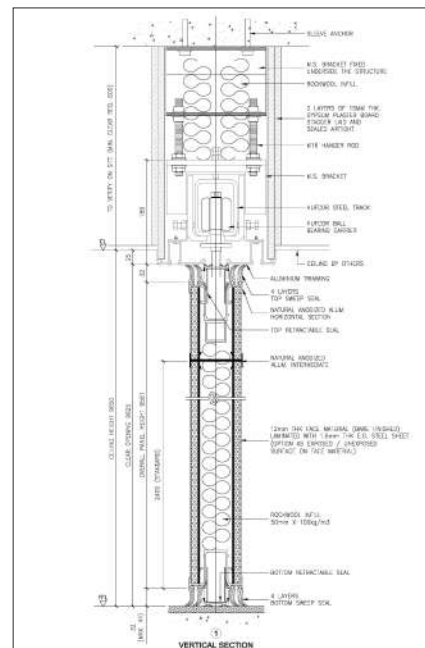
- A. The complete installation of the operable wall system shall be by an authorized factory-trained installer and be in strict accordance with the approved shop drawings and manufacturer's standard printed specifications, instructions, and recommendations.
- B. Plenum closure (by others): The design of plenum closure must permit lifting out of header panels to adjust track height. Plenum closure required for optimum sound control of partition.

3.02 TRAINING

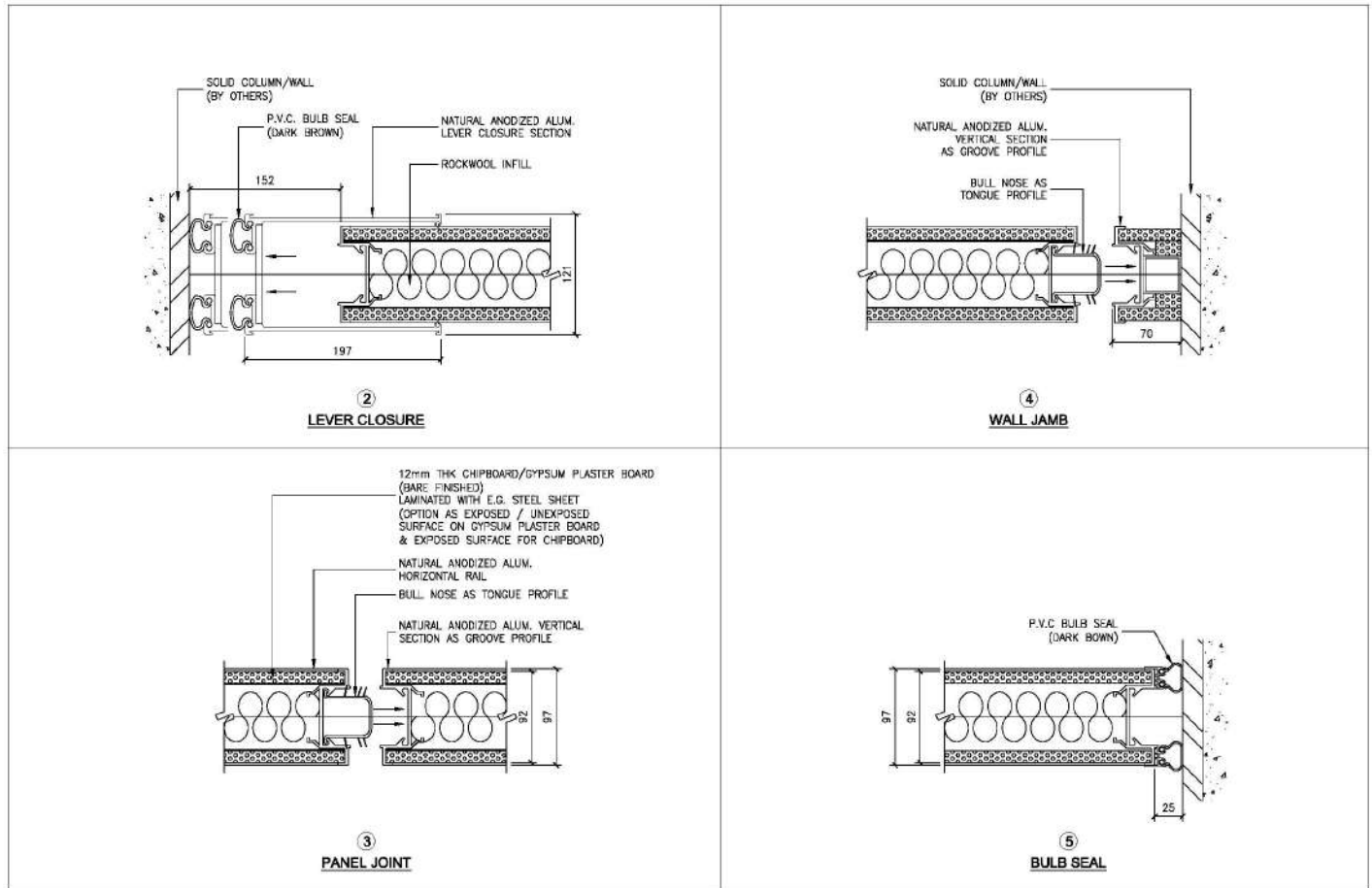
- A. Installer shall demonstrate proper operation and maintenance procedures to owner's representative.
- B. Operating handle will be provided upon complete hand over.

Part 4 SECTIONAL DETAILS

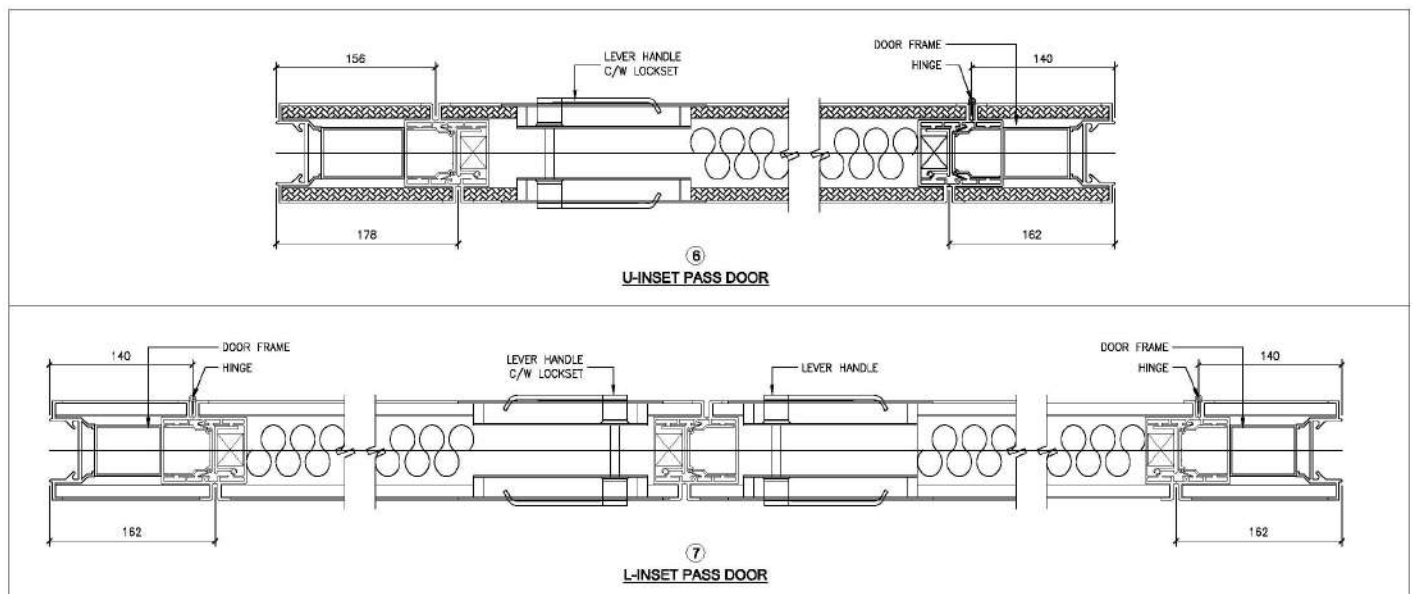
CROSS SECTIONAL DETAILS



CROSS SECTION



OPTIONAL DOOR



STORAGE LAYOUT OPTION

