**7000 OPERABLE WALL SPECIFICATIONS**

**SUMMARIZED SPECS**

The product shall be **HUFCOR 7000 Series** manufactured by HUFCOR Inc. subsidiaries. Panels shall be of nominal 97mm thick with profile framing of anodized architectural grade 6063-T6 aluminum alloy that are factory applied with 12mm thick board and finished with HUFCOR SELECTOR for [ **Vinyl / HPL / Fabric** ]on each side to achieve an **STC of [** 43/47/49/51/53/55 **dB** ]. The vertical framing trims shall be [ exposed / concealed ] after finishing.

The panel to panel vertical frames are sealed off with a deep nested tongue and groove configuration. The top and bottom retractable seal shall provide a minimum 32mm operating clearance to accommodate normal floor gradient. The panel top and bottom retractable seals must be activated simultaneously with a **half-crank turn”** for ease of quick set up operation.

**FULL SPECIFICIFICATIONS**

1.01 ACCEPTABLE MANUFACTURERS

1. 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.

1.02 PRODUCT CONSTRUCTION DETAILS

1. The product shall be HUFCOR 7000 Series Operable Wall manufactured by either HUFCOR INC and/or subsidiaries.
2. 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 1.04 Acoustical Performance.
	3. 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).
	4. Horizontal Splice: There will be a horizontal splice placed at intervals heights, depending on the substrates manufacturing length limitations.
	5. The frames shall be factory applied with clear anodized architectural grade extruded aluminum alloy 6063-T6.
3. Optional face finish shall wrap around concealed the vertical edge trims
4. ACOUSTICAL SEALS
5. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.
6. Horizontal sound seals between panels and top supporting track shall be retractable and provide 32 mm nominal operating clearance.
	1. Horizontal sound seals between panels and floor shall be retractable and provide 32 mm nominal operating clearance to accommodate normal floor gradient.
	2. Optional retractable seal up to 100 mm nominal operating clearance (Consult Hufcor for more information).
7. Top and bottom horizontal retractable seals shall provide a minimum of 45 kg seal force respectively when seals are extended.
8. ACTIVATING MECHANISM
9. 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.
10. SUSPENSION SYSTEM
11. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6.
12. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier.
13. The panels are top hung with : (select as required)
14. Omni direction design, Each panel shall be supported by two 2-wheeled ‘counter-rotating” horizontal carriers.
15. Paired-design; Each panel shall be supported by center hung “one 4-wheeled carrier”
16. 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)
2. exposed vertical trims or
3. concealed vertical trims
4. Face finish shall be factory applied with (select as required):
5. Vinyl laminates, color shall be selected from “Hufcor Finishes Selector”
6. Fabrics, color shall be selected from “Hufcor’s Finishes Selector”
7. High pressure laminates, color shall be selected from “Hufcor Finishes Selector”
8. Other customers selection shall require factory approval for compatibility confirmation.

1.03 OPERATION

1. Panels shall be manually moved from the storage area, positioned in the opening, and seals set.
2. Retractable Horizontal Seals
3. Retractable horizontal seals shall be activated by a removable quick-set operating handle
4. Top and bottom retractable seals shall be operated simultaneously.
5. Seal activation requires approximately a 190 degree turn of the removable handle.
6. 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.

1.04 ACOUSTICAL PERFORMANCE

1. Acoustical performance shall be tested at a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) in accordance with ASTM E90 Test Standards and/or recognized third party independent laboratory in accordance with ISO 140-3:1995 Test Standards.
2. Standard panel construction shall have obtained an STC rating of \_\_\_\_ (Select as required )

 [ 43/47/49/51/53/55 ] dB.

1. Complete, unaltered written test report is to be made available upon request.
2. Predictive test report is to be made available upon request for alternative construction design