**5000G OPERABLE GLASSWALL SPECIFICATIONS**

**SUMMARIZED SPECS**

The product shall be **HUFCOR 5000G Operable GlassWall** manufactured by HUFCOR Inc. subsidiaries. Panels shall be of nominal 87 thick with profile framing in clear anodized architectural grade 6063-T6 aluminum alloy that are factory applied with 10 mm thick clear tempered glass on each side to achieve an **STC of [ 44 / 48 ] dB**. The panel to panel vertical frames are sealed off with a deep nested tongue and groove configuration. The top retractable seal shall provide a minimum 25mm operating clearance **and the bottom retractable shall provide minimum 35mm floor clearance** to accommodate normal floor gradient. **All panels, including the doors and closure jamb panel shall have an optimum clear glass view of the basic panels.** The panel top and bottom retractable seals must be activated simultaneously with a **half-crank turn”** for ease of quick set up operation.

**FULL SPECIFICATIONS**

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 5000G GlassWall Series manufactured by either HUFCOR INC and/or subsidiaries
2. PANEL CONSTRUCTION
   1. The framing shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6 and shall be factory applied, with glass edge protective design
   2. Panels shall be nominally 86mm thick and up to 1219mm in width.
   3. Panel faces shall be 10 mm thick tempered clear glass constructed to meet the STC requirement in 1.04 Acoustical Performance.
   4. Optional substrate in a form of clear or decorative laminated finishes can be applied. Consult your HUFCOR’s authorized distributor for more information.
   5. Optional Privacy Glass can be factory applied. Consult your HUFCOR’s authorized distributors for more information.
3. ACOUSTICAL SEALS
4. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.
5. Horizontal sound seals between panels and top supporting track shall be retractable and provide 25mm nominal operating clearance.
6. Horizontal sound seals between panels and floor shall be retractable and provide 30–40 mm nominal operating clearance to accommodate normal floor gradient.
7. Top and bottom horizontal retractable seals shall provide a minimum of 45 kg seal force respectively when seals are extended.
8. Final closure panel seal shall provide an expandable jamb with a minimum of 110kg of seal force to tighten the partition system to attain optimum acoustics.
9. ACTIVATING MECHANISM
10. 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.
11. SUSPENSION SYSTEM
12. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6.
13. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier.
14. Each panel shall be supported by two 2-wheeled ‘counter-rotating” horizontal carriers.
15. 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.

2.03 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.

2.04 ACOUSTICAL PERFORMANCE

1. 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.
2. Standard panel construction shall have obtained an STC rating of \_\_\_\_ (select as required): 44/48
3. Complete, unaltered written test report is to be made available upon request.
4. Predictive test report is to be made available upon request for alternative construction design