

DuraSound Specifications

Sound Barrier Partition — Accordion Folding

STC43

Top hung · No floor track · Manual operation · STC43 tested to ASTM E-90 · Factory trained installation required

Supplied in Australia & New Zealand by Moveable Partitions Australia

PART 1 | GENERAL

1.01 Summary of Work

- A. Furnish and install all accordion folding partitions shown on the drawings and specified herein.
- B. All headers, support structures, surrounding insulations, jambs, pocket doors, blocking, architraves and trim shall be furnished and installed by others.
- C. Peripheral leakage of sound through ceiling, floor, other walls, ducts or vents is to be made good by others.

1.02 Quality Assurance

- A. Installation shall be carried out by factory trained personnel.
- B. DuraSound model shall have the laboratory sound rating indicated (STC43), when tested in accordance with the requirements of ASTM E-90.

1.03 Submittals

- A. Specification listed as either Single Parting, Bi-Parting or Rolling Lead Post.
- B. Indicate Clear Opening Width & Clear Opening Height of partitions (height is from underside of header to top of flooring coverings).
- C. Indicate required stack depth & pocket width (if applicable).
- D. Show installation details, layout and any optional electrical requirements.

1.04 Delivery, Storage & Handling

- A. Deliver to job site in manufacturer's original and unopened packaging.

1.05 Coordination by General Contractor

- A. Coordinate the efforts of the various trades affected by the work of this section. Assure accurate construction of header, jambs and trims. Provide 'As-Built' Final Fabrication dimensions of each opening on forms provided by Moveable Partitions Australia.
- B. Supervise unloading and handling. Store boxes flat (no more than three high) in a dry area and protect from elements that may damage the materials. Replace any damaged materials at no additional cost to the owner.

Option: If motorised operation (2.02 0) is specified — permanent power shall be in place for final connection when partitions are installed. Ensure access to and proper clearance for motor operators.

1.06 Warranty

- A. Materials shall be warranted against defects and workmanship for a period of **three (3) years** from the date of installation. DuraSound must be installed by factory trained personnel or warranty is void.

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ACOUSTIC RATING

Sound Transmission Class 43 — Tested to ASTM E-90

PART 2 | PRODUCTS

2.01 Manufacturer

- A. Folding partitions shall be DuraSound model as manufactured by Won-Door New Zealand Limited and Won-Door Australia Pty Ltd.

2.02 Materials

- A. **Operation:** Shall be top hung and manually operated (no floor track).
- B. **Construction:** Shall consist of two parallel accordion-type folding partition walls of panels independently suspended from top track. With no pantograph or interconnections except for the Lead Post.
- C. **Panels:** Shall be formed of 115mm wide × 1.6mm thick aluminium, V-grooved and powder coated for added strength. Panels shall be connected by full height extruded vinyl hinges.
- D. **Insulation:** Interior surfaces of both walls shall be completely covered with a continuous acoustic blanket of high-density foil-backed fibreglass insulation fastened with patented stainless-steel spring-loaded clips.
- E. **Suspension & Track System:** Two extruded aluminium tracks spaced 152mm apart (203mm for motorised) on centre of header, attached to the overhead structural support.
- F. **Trolleys:** Each panel suspended by a hardened-steel hanger pin and 25mm nylon-tyred ball bearing roller. Each Lead Post suspended by a 12-wheel ball bearing aluminium trolley.
- G. **Lead Posts:** Shall be of 3.15mm extruded aluminium, connected to the partition by specially designed aluminium Wing Panels.
- H. **Striker (receiver):** Shall be of 1.9mm extruded aluminium, secured to wall with fasteners. Striker face to be fitted with full height acoustic seal.
- I. **Perimeter Seals:** Continuous extruded vinyl sweep strips attached to top & bottom. Leading edges of Lead Posts and Striker posts shall be acoustically sealed by extruded vinyl interlocking seals.
- J. **Handle:** Standard grip-type aluminium handles and sliding latch to effect closure.
- K. **Hanging Weight:** 18 kg per m².
- L. **Fixings:** All necessary track and fixing screws are supplied.

OPTIONS

- M. **Lock and Key:** Can be specified for added security. Standard is latch closure only.
- N. **Stabilizer Bar:** For DuraSound models over 3,400mm tall. Top supported, internally mounted diagonal brace connected to Lead Post. Requires minimum 368mm wide header.
- O. **Motor Operation:** Driven by roller chain attached to stabilizer bar trolley. 115/230V single-phase AC or 208V 3-phase AC gear motor. Required for heights over 4,000mm (max 5,000mm).

2.04 Acoustical Performance

- A. Sound Transmission Class (STC) shall be **STC43** when tested in accordance with requirements of ASTM E-90.

2.05 Colours

- A. Powder coat finish colours to be selected from manufacturer's standard colour range.

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PART 3 | EXECUTION

3.01 Preparation by General Contractor

- A. Openings shall be constructed to the dimensions specified and approved.
- B. Openings to be straight, plumb and level.
- C. Headers to be parallel with the finished floor to within $\pm 5\text{mm}$ over the entire length of the opening.

3.02 Installation

- A. Install partitions in accordance with manufacturer's instructions.
- B. Upon completion of installation, the General Contractor shall protect partitions from damage and replace or repair subsequent damage so that partitions are acceptable to the architect, at no additional cost to the owner.

PART 4 | FURTHER SPECIFIERS INFORMATION

4.01 Elevation Design Spec

- A. **Single Parting** — single partition which stacks entirely to one side when open and latches closed at the other side.
- B. **Bi-Parting** — two partitions which stack to each side when open and latch together in the middle.
- C. **Rolling Lead Post** — single partition which can latch closed at both sides and stack open at both sides.

4.02 Plan View Design Spec

- A. Straight door only — all track types can be specified.

4.03 Track Design Spec

- A. **T-11 Standard Track with Soffit** — 310mm wide.
- B. **T-11 Standard Track without Soffit** — 305mm wide.
- C. **T-02 Suspended Ceiling Track** — 282mm wide.
- D. If Option N (Stabilizer Bar) or Option O (Motor Operation) is specified — **T-09 Track System with Soffit** — 364mm wide.

Tracks generally supplied as standard to match colour of partition. Arctic White or other colours can be specified to tie in with surrounding ceilings/bulkheads. Refer to manufacturer's Technical Details for further information.

4.04 Stack Dimensions

- A. Stack Depth for DuraSound is **146mm per lineal metre** of opening plus **152mm** for Lead Post. For Bi-Parting use half the width of the opening.
- B. Thickness of the door when stacked open is **280mm**.

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4.05 Maximum Dimensions

- A. Standard DuraSound — **3,400mm** high maximum.
- B. DuraSound with Stabilizer Bar — over 3,400mm high.
- C. Motorised Operation required for heights over 4,000mm — maximum **5,000mm** high.

Almost no practical limitations in width.

4.06 Required Dimensions for Manufacture

- A. Fully detailed and authorised measurements of the opening are required on Fabrication Measurement Forms provided by Moveable Partitions Australia.
- B. Typical opening measurements required:
 - Width at top of opening
 - Height at 2m intervals across length of opening
 - Floor covering thickness

DURASOUND — QUICK REFERENCE			
Acoustic Rating	STC43 — ASTM E-90	Max Width	No practical limit
Max Height (std)	3,400mm	Max Height (stabilizer)	Over 3,400mm
Max Height (motor)	Up to 5,000mm	Hanging Weight	18 kg/m ²
Panel Width	115mm	Stack Depth	146mm/lm + 152mm Lead Post
Stacked Thickness	280mm	Warranty	3 years — trained install required

Contact Moveable Partitions Australia
 For technical enquiries, quotes, and fabrication measurement forms:
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