

SOLID OPERABLE WALLS • GLAZED OPERABLE WALLS • AGILE PANELS

# Operable Wall Systems

**SPACIAL**  
concepts

Optimise spaces with smart, adaptable solutions from Spacial Concepts®.

Enhance a room's functionality and interior design with operable wall solutions that offer simplicity, strength, and seamless integration.

[SPACIALCONCEPTS.COM.AU](https://spacialconcepts.com.au)





Choose  
**SPACIAL CONCEPTS**

Our mission is simple: transform and optimise spaces for working, learning, and living with reliable, adaptable solutions.

## Solid & Glazed **OPERABLE WALLS**

Easily reconfigure an environment with our operable wall systems. Divide a classroom, expand a conference room, or create flexible function spaces. Our operable walls provide a balance of style, strength, and simplicity.

Built to last, each system combines premium materials with precision engineering to ensure smooth operation and reliable performance. From corporate offices and educational facilities to clubs, restaurants, and hospitality venues, we have the solution to transform your space.

Trust Spacial Concepts for affordable, Australian-made operable wall solutions supported by personal service and decades of expertise.



HIGH QUALITY, BUDGET-FRIENDLY SOLUTIONS

Our systems deliver durability, performance, and style. Talk to our team to discover the Spacial Concepts system that meets your project's performance and budget goals.



LOCAL MANUFACTURE & SUPPORT

We are the local experts. We've been supplying the QLD and northern NSW construction markets from our Virginia QLD location for decades.



100% AUSTRALIAN

Spacial Concepts is Australian owned and our products are Australian designed and built. We operate and manufacture from our QLD location, with additional resources from our VIC sites.







**Solid Operable Walls**

Solid acoustic operable walls from Spacial Concepts provide versatile space layout with excellent acoustic performance.

These panels offer privacy, noise reduction, and durability and are ideal for offices, schools, and function centres,

Designed for smooth operation and tailored finishes, solid operable walls give practical flexibility with a polished, professional appearance in any environment.

**WARRANTY:**  
Support to depend on

We stand behind the quality and durability of every product we deliver and offer a standard 2-year warranty on all our systems. The warranty reflects our commitment to supporting customers and ensuring long-term satisfaction with every project.

For additional peace of mind, extended warranties and comprehensive service and maintenance agreements are available. Whether it's ongoing system performance, preventative upkeep, or on-demand support, our team is here to help keep your environment operating at its best.



**Glazed Operable Walls**

Our glazed acoustic operable walls combine openness and light with space flexibility.

Sleek designs create visual flow between spaces, adding style and transparency without compromising performance or the ease of reconfiguration.

Our glazed operable walls can be configured to feature pinboards or whiteboards. These hybrid walls deliver practical use while still offering transmission of light.



**PANELS:**  
Quality systems that set the standard

An operable wall is a versatile product designed to make the most of a space. Our panels move easily within the top track with no unsightly floor tracks or guides. Our operable walls provide the acoustic qualities of a fixed wall with the flexibility to open or reconfigure a space. We use premium track and trolley systems ensuring the panels stack correctly and close smoothly.

PANEL WIDTH			
	BOARD	GLASS	
Maximum Panel Width	1.2m	1.0m	
Minimum Panel Width	650mm	500mm	
PANEL HEIGHT			
	BOARD	GLASS	
Maximum Panel Height	6.0m	3.0m	
PANEL WEIGHTS (by Rw Rating)			
BOARD		GLASS	
Rw45	33kg/sqm	Rw35	26kg/sqm
Rw47	35kg/sqm	Rw37	26kg/sqm
Rw50	40kg/sqm	Rw39	30kg/sqm
		Rw40	32kg/sqm

CONSTRUCTION			
BOARD		GLASS	
Panel Thickness	100mm	Stile Width	82mm
Overlay Panel Thickness	112mm	Top Rail	90mm
Frame Width	10mm	Bottom Rail	120mm
TRACK DIMENSIONS			
Centre Stack Track			50mm
Multi-Directional Side or Remote Track			90mm
TOLERANCES			
Floor should be level within +/- 5mm across the opening for satisfactory acoustic performance			
Jambs to be plumb +/- 5mm			
Overhead support to suit the weight of the wall systems with no greater than a 5mm deflection			
CLOSURE OPTIONS			
Full Height Door with Standard Flush Pull Handles or Lever Handles options			
*keylock options available			
Expanding panel or Expanding jamb (board construction only)			

**SOLID OPERABLE WALL PERIMETER FRAMES**

- Our 100 Series has two options for the perimeter frame:
- **Standard:** Stiles wrap smoothly around panel edges for a neat and clean look.
  - **Overlay:** Beautiful looking panels with concealed perimeter frames for prestige locations.



# Transform & optimise spaces with smart, adaptable solutions.



These drawings highlight a selection of general information. Talk to a Spacial Concepts team member for assistance with specific project specifications.

Visit [spacialconcepts.com.au](http://spacialconcepts.com.au) to view drawings full size.



## SEALS:

At the top and bottom of the panels

Our solid operable wall system is unique in that sound-ratings are not dependent on using retractable seals. You can specify the seals to suit the project and budget without compromising acoustic performance.

## SEAL OPTIONS FOR SOLID OPERABLE WALLS

- Option 1: Sweep top and bottom seals
- Option 2: Sweep top and retractable bottom
- Option 3: Retractable top and bottom seals (*optional production*)

### SWEEP SEALS

Top seals are set at a fixed 30mm. Seals are (2) triple fingers for excellent acoustics.

Sweep seals can accommodate +/- 5mm floor level variation.

### RETRACTABLE SEALS

Retractable bottom seals allow for easier movement and the ability to cope with out-of-level floors.

## SEAL OPTIONS

SOLID OPERABLE WALLS		GLAZED OPERABLE WALLS	
TOP RAIL SWEEP SEALS	RETRACTABLE TOP SEALS	TOP SWEEP SEAL	BOTTOM SWEEP SEAL
BOTTOM RAIL SWEEP SEAL	RETRACTABLE BOTTOM SEALS		





# Solid & Glazed OPERABLE WALLS

## ACOUSTICS:

Reliable acoustic performance

Our acoustic operable wall systems are engineered to reduce sound transmission.

For effective acoustic control the whole environment needs to be considered. Openings such as ceiling voids, air ducts, or gaps in the room can allow sound to escape.

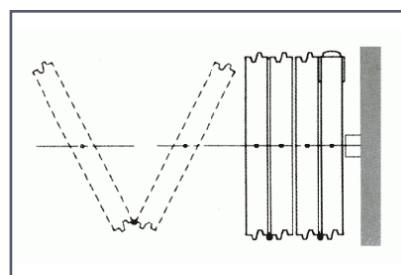
For the best results, choose a wall system that not only meets your target rating but also integrates seamlessly with the broader acoustic design of your space.

GLASS	BOARD
Rw 35	Rw 45
Rw 37	Rw 47
Rw 39	Rw 50
Rw 40*	
*IGU incorporated to achieve this acoustic rating	

## STACKING:

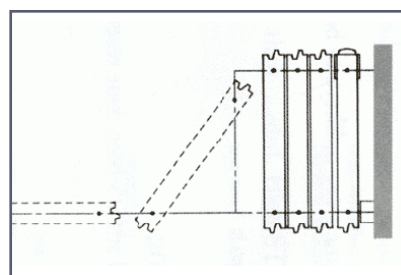
Panel stacking systems

Spacial Concepts utilises a collection of proven tracking and trolley systems. Choosing the most suitable is a specialised process and depends on stacking needs, panel details, and the track layout.



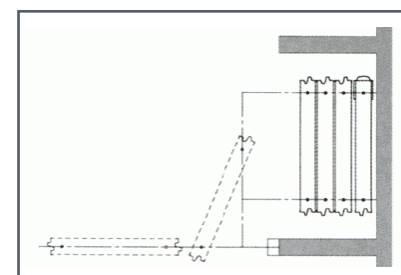
CENTRE STACK

A simple straight track. Each panel is suspended from a central trolley and typically hinged in pairs. Often closed by a jamb hung pass-door.



SIDE STACK

Single panels are suspended from two carriers at the top corners of each panel. Panels stack with one carrier remaining on the main track and the other in the side track. The panels run along the main line of track and turn perpendicular to the track.

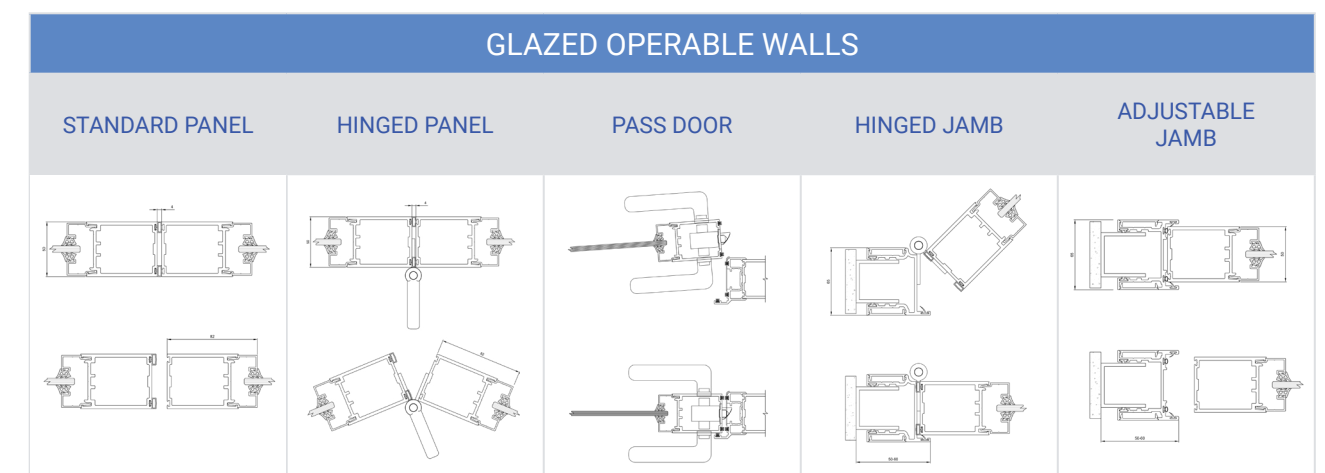
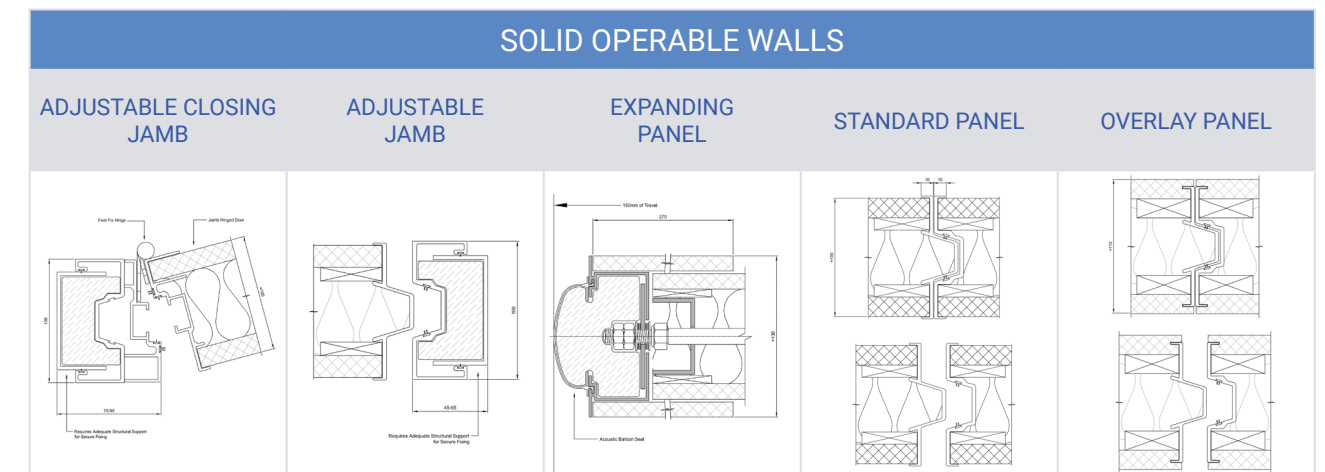


REMOTE STACK

Remote Stack panels have omnidirectional carriers to negotiate X, L or T junctions and panels are stacked completely away from the main track, sometimes in a cupboard or recess.

Spacial Concepts offers two high-performance track systems. Our premium **Number 1 Track and Curves** system delivers superior performance and a sleek, refined look. For a more budget-conscious option without compromising reliability, our **Number 4 Track** system features high and low rollers that ensure smooth panel diversion.

## TYPICAL DETAILS:



## SPACIAL concepts SOLID OPERABLE WALL specification

### PANELS

100 Series (Rw 45-50)

S STANDARD 10mm frame  
V OVERLAY concealed frame

example:  
100S

### ACOUSTICS

45 normal voices unintelligible  
47 raised voices barely intelligible  
50 major function noise controlled

example:  
45

### STACKING

C panels CENTRAL, across the track  
S to one SIDE, but still on the track  
R panels REMOTE, off the main track

example:  
S

### CLOSURES

D DOOR, full height  
P PIVOT panel (centre stack only)  
X EXPANDING panel

example:  
D

### SEALS

Standard	1	TOP	BOTTOM
	2	Sweep	Sweep
		Sweep	Retractable
Optional Production	3	Retractable	Retractable

example:  
2

example:  
Series 100S / 45 / SD2

## SPACIAL concepts GLAZED OPERABLE WALL specification

### PANEL CONSTRUCTION

50G Single Glazed

example:  
50G

### ACOUSTIC RATING

Rw35 Glazed Acoustic walls provide a visual connection between rooms which reduces some dependency on high acoustic specifications.  
Rw37  
Rw39  
Rw40\* \*IGU incorporated to achieve this acoustic rating

example:  
37

### TRACK LAYOUT

C panels CENTRE, across the track  
S to one SIDE, but still on the track  
R panels REMOTE, off the main track

example:  
S

### CLOSURE

D DOOR, full height  
hinged off jamb or adjacent panel  
(some limits may apply for this configuration)

example:  
D

### SEAL

Standard	1	TOP	BOTTOM
		Fixed	Fixed

example:  
1

example:  
Series 50G / 37 / SD1  
Glazed Wall / Rw37 / Side Stack / Door Closure / Fixed Seals



# AGILE PANELS

Transform open-plan areas into collaborative spaces with our Agile Panels. Whether used as room dividers, writable whiteboards, or creative display screens, Agile Panels are a versatile solution that support the way you work, teach, or share ideas.

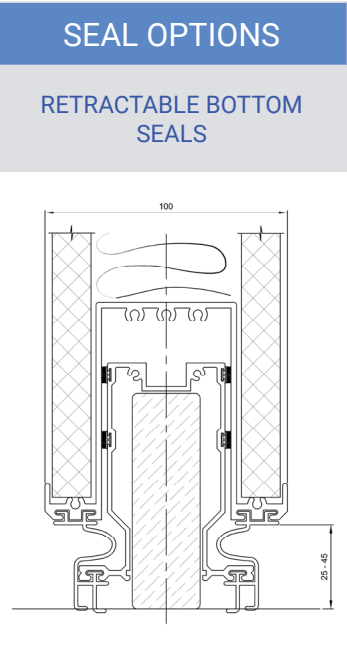
Agile Panels can be tailored to suit defined design and performance needs with a wide range of panel finishes. Panels are manufactured in widths of 600–1200mm and heights up to 3m, with multiple track and trolley options.

From classrooms to offices, Agile Panels offer a bespoke and elegant way to create division, boost productivity, and adapt your space instantly to the activity at hand.

Agile Panels are more than just partitions. They're tools for collaboration, focus, and creativity.



AGILE PANEL DETAILS	
PANEL THICKNESS	100mm
PANEL CONSTRUCTION	MDF
MAXIMUM PANEL WIDTH	1200mm
MAXIMUM HEIGHT	3000mm
MINIMUM PANEL WIDTH	600mm
TRACK FIXING	Timber, Concrete, or Steel
APPLICATION	Internal
PANEL WEIGHT (approx.)	32-35kg/m <sup>2</sup>
FLOOR LEVELS	±5mm
PANEL FINISH OPTIONS	Whiteboards, Laminates, Pinboards



TYPICAL FIXING DETAILS: Operable Walls & Agile Panels			
#1 TRACK – CENTRE STACK FIXING			
CENTRE STACK FIXED TO TIMBER	CENTRE STACK FIXED TO CONCRETE SUSPENDED	CENTRE STACK FIXED TO STEEL SUSPENDED	CENTRE STACK FIXED TO STEEL DIRECT (PFC)
#4 TRACK – SIDE & REMOTE STACK FIXING			
SIDE / REMOTE STACK FIXED TO TIMBER	SIDE / REMOTE STACK FIXED TO CONCRETE SUSPENDED	SIDE / REMOTE STACK FIXED TO STEEL SUSPENDED	SIDE / REMOTE STACK FIXED TO STEEL DIRECT (PFC)

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## About Spacial Concepts

Spacial Concepts® began manufacturing acoustic operable walls, partitions, and internal fitouts in 1989. With a commitment to craftsmanship and customer service, our operable wall solutions offer simplicity, strength, and seamless integration.

An Australian-owned business, we understand the value of regional support and collaboration. Our team provides consultative and technical guidance every step of the way, helping you choose, design, and install systems that perform reliably.

The company became part of Aluminium Industries of Australia (Ai) in 2025. With deep connections to the construction community in QLD, Spacial Concepts continues their proud history of quality products as a brand in the Ai group.

Founded in 1996, Aluminium Industries has grown through the years to include several brands, on site IP and exquisite customer service.

We are proudly Australian yet operate with a global perspective.



### Spacial Concepts

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