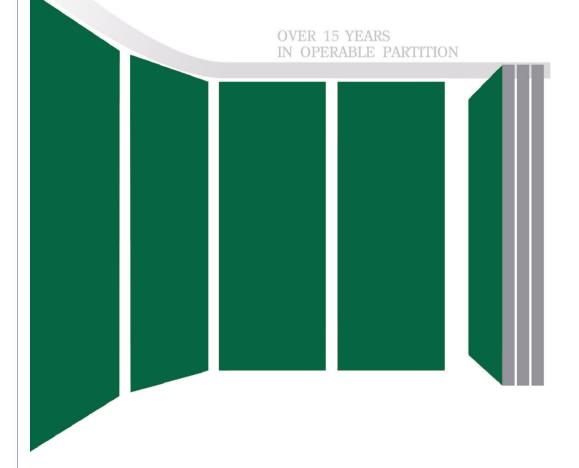


PANELFLEX OPERABLE PARTITION WALL SYSTEM





Website: www.lycsa.cl Contact: (56 2) 2248 2554



LAGOS Y CASTILLO INGENIERÍA

We have a lot of experience in installing acustic panels. Over the past 15 years, our firm has succeeded in numerous premium projects, and earned reputation along the country. We have a wide range of product line that suits all kinds of projects and requirements. We are able to satisfy from budget-intensive project to premium project.

Our company has a professional design and technical team that can support our clients by providing a perfect design and solution and solving each single problem encountered. We also have an experienced installation team, capable of guiding installation in many circumstances.













Contents

Project Case

Some of our latest projects gallery Model Description regarding the types of the products and the differences of the usage Description Economic The most standard type of product, cost effective and very useful against for most of the circumstances Manual Type Premium This luxury manual product suitable for the high-end area, more durable and reliable quality Manual Type **Economic** Time-saving technique, with its price advantage, Semi-Auto Type can be applied to some of the small high-end project Represent the most advanced technique of the Premium movable partition wall, suitable for the super Semi-Auto Type high-end project Suitable for the area that require transparency, Glass Type can be acoustical or non-acoustical

Details regarding the track system, elements and

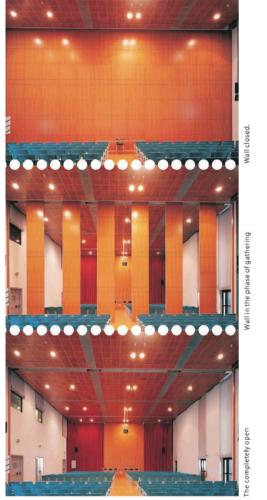
of the partition wall system

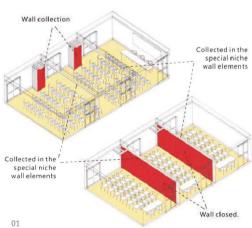
options for packing, parameters for different types

Product Details

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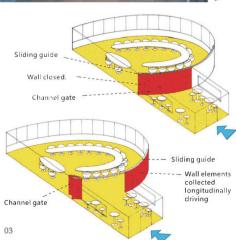
Parameter









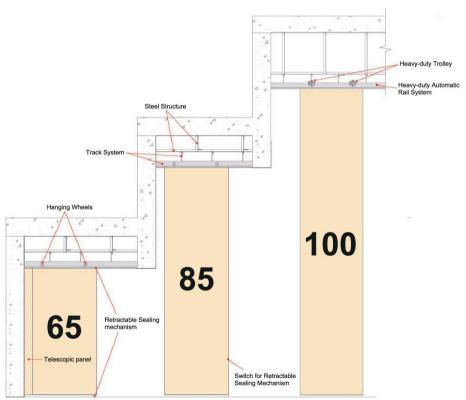








PanelFlex movable wall partition is made of high quality anodized aluminum frame with environmentally composite materials. The panels move on a ceiling track without any requirement of the rails or guides on the floor. The panel has a standard thickness of 50m~125mm, and width up to 1219mm. Maximum height can reach 18.0m.



65 Type

Multi-direction & Mono-direction Thickness range from 50-85mm Partition height up to 4m STC up to 38 Various finish choices Retractable sealing mechanism

85 Type

Multi-direction & Mono-direction Thickness range from 85-105mm Partition height up to 6.0m STC up to 45 Various finish choices Retractable sealing mechanism

100 Type & Ultra Height

Multi-direction & Mono-direction
Thickness range from 100-125mm
Partition height up to 18.0m
STC up to 55
Various finish choices
Retractable sealing mechanism



Economic Type Operable Partition Wall

Our economic type operable partition wall can be suitable for most of the budget-intensive projects, simple but effectively help to optimize the space of the room, various type of track system ensure the partition can work under any kinds of circumstances.

Each partition panel can be locked manually with the key, the key can trigger the powerful spring to control the up and down retractable seal, sealing the gap to provide sound insulation and lock the panel at the same time, the side telescopic panel can also be manually controlled by key to seal up against the wall.

The economical type partition can reach maximum up to 9m height, produced in several types of thickness, any kinds of finish are available.

1. Horizontal seals

Retractable seals for sealing the gap and fixing the panel to its position

2. Track system

Various types of track system ensure the flexible movamenet of the partition

3. Sealing mechanism

One time trigger powerful spring mechanism, to control the retractable seals

4. Acoustic cotton

Sound insulation blanket to fill up the internal structure, to provide a better sound insulation performance

5. Surface boards

The raw finish can be covered with all kinds of materials for decoration

6. Crank key

Use the key to operate the retractable seals, only rotate 90 degrees clockwise can fully extend the seals,

7. Element connections

Convex/concave with sealing strips, ensure the sound will not leak from the contacts $% \left(1\right) =\left(1\right) \left(1\right) \left($





Premium Type Operable Partition Wall

Premium type operable partition is the upgrade version of the economic type, this premium product is suitable to those high-end projects which require higher quality standard, the upgrade version provide not only the quality, but also the advanced design and functions, compare to the economic version, it has more applications.

Advantages

Horizontal seals

Upgrade version of retractable seal, the special casting mold ensure that the sealing strip will not come out easily, provide a better sound insulation performance

Corner seals

Special design connecting buffer, this buffer connects two components through an embedde system, ensure no sound is leaking from here

Vertical seal

Upgrade version of aluminum profile joint, special mold for the sealing strip ensure the high quality of sound insulation

Magnetic strip

Apart from the rubber sealing strip, there is magnetic strips embedded inside the joint to make the contact more easy and tight

Surface boards

The raw finish can be covered with all kinds of materials for decoration

Insulation material

The insulation materials can be embeded inside according to different requirements

Operating key and Mechanism

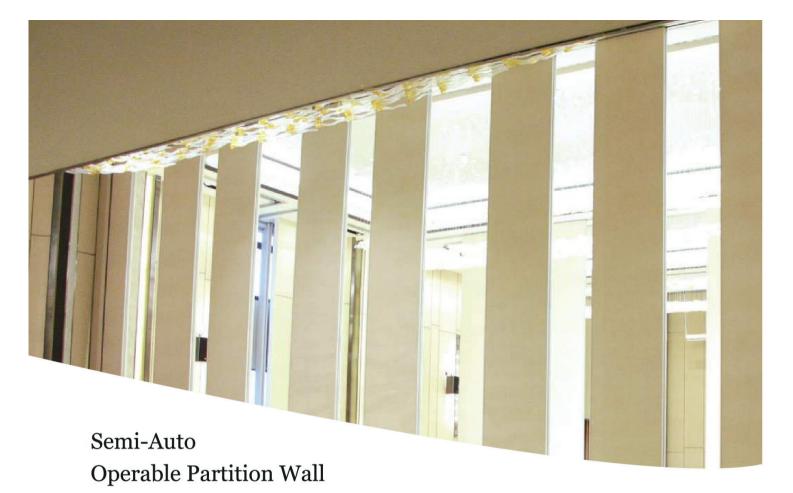
Special design key, very easy to operate. The new type of jack mechanism instead of one-time trigger spring mechanism in the normal partition, providing a stable force to those retractable seal, increasing the sound insulation performance and durability.

Reinforced frame

Reinforced galvanized steel structure, supporting the full panel, panel will not bent even if it's very high

Track system

Patented design, no need any lubrication, more durable





Semi-Auto Operable Partition Wall

Semi-Auto type is the upgrade version from the manual type, with this system requires even less effort to operate the partition, the advantage of this system compare to the manual type is that it can greatly reduce the time for manually operate the retractable sealing strips, instead they will be controlled by the electric motor, saving a lot of time and effort..

Advantages

Horizontal seals

Excellent pressure from the upgrade sealing chamber, increase sound insulation and stability and even out floor irregularities

Corner seals

Elastic corner pieces increase the stability and sound insulation

Element connections

Upgrade version of convex/concave positive locking with deep profile interlocking, along with magnetic strip, easy to contact

Cover panels

Panel is clipped on the frame, can be replaced without removing the elements, provide an excellent sound insulation

Sound insulation material

Panel can be fitted with additional insulation material according to the requirements

Operating key

Crank handle for manually extending and retracting the sealling strips

Frame

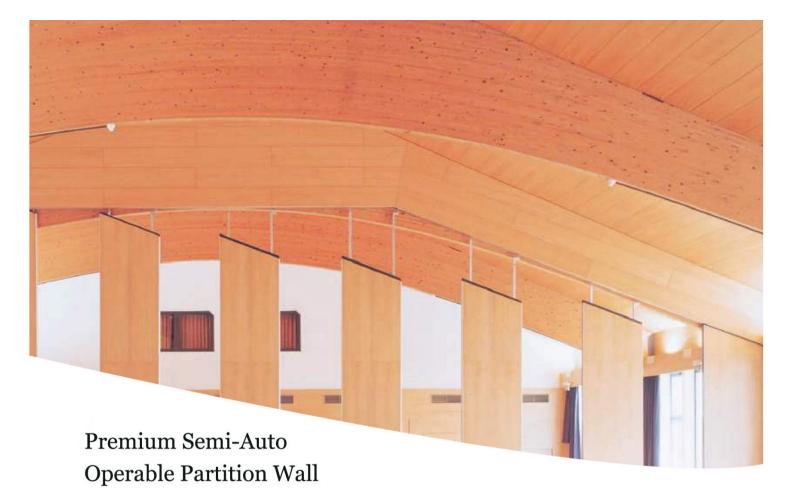
Reinforced steel structure and upgrade version aluminum construction with outstanding strength and sound insulation

Electric motor

The electric motor control the extension and retractable seal, can be operated manually

Contacts

Power is transmitted from element to element via the contact, it eliminates the time for operating the crank, also avoids the operator forgetting to wind up the seals





Premium Semi-Auto Operable Partition Wall

Premium semi-auto partition is our most advanced version of operable partition wall, instead of using one single electrical motor in the middle of the panel, in this new version each top and bottom retractable seals will be controlled by its own individual micro motors, which will work immediately after two elements are contacted, not only greatly reduce the weight of the panels, but also easy for maintain those motors, and provide the possibility of having transparency on the panels.

Advantages

1. Suspension system

The elements are suspended from the shock-absorbing bolt, this can greatly reduce the transmission of impact and operating noise, within the bolt there is safety rope, preventing flexure or fracture of the bolts

2. Micro electric motors

The micro E-Motors system serves to retract and extend the both top and bottom horizontal seals of the individual elements, and also the telescopic elements, as soon as the elements are pushed together. This eliminates the time for operating the crank, also avoids the operator forgetting to wind up the seals, the micro motors are easy to take out and repair compare to the traditional semi auto

3. Extendable horizontal sealing strips

Each element is provided top and bottom with extendable upgrade sealing chamber, they are powered by the electric motor, and when extended, press against the floor surface and ceiling track. The constant spring pressure allows for automatic adapatability to floor unevenness

4. Contacts

Power is transmitted from element to element via the contact, to control the sealing, even when the power is failure, it can be operated manually

5. Element interconnection

Upgrade version of convex/concave positive locking with deep profile interlocking, along with magnetic strip, easy to contact

6. Corner sealing

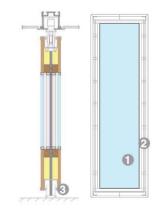
Elastic corner pieces increase the stability and sound insulation

Glass Operable Partition Wall

Increasingly, flexible and efficient space utilisation is becoming a must for office, hotel and similar. Transparency is becoming popular for the movable partition as well, a fashion solution for dividing room space, we have non acoustic type and acoustic type, even with the transparency, we can do the sound insulation values up to STC 45dB, can also equipped with semi-auto system and blind etc. all kinds of special functions.

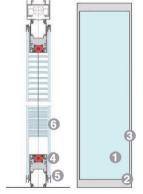






Double Glazed Operable Partition

- 1. 12mm tempered glass
- 2. 10cm width frame
- 3. Retractable seals
 Full size passing door



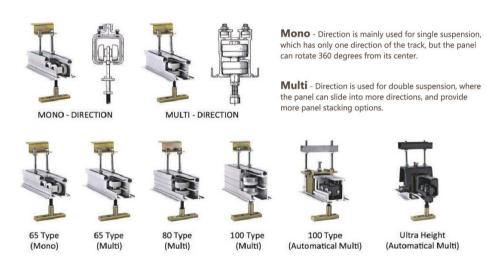
Semi-Auto Double Glazed Operable Partition

- 1. 12mm tempered glass
- 2. 10cm width up & down frame
- 3. 5cm width side frame
- 4. Micro motor
- 5. Retractable seals
- 6.Blind
- Full size passing door

Track System for Operable Partition Wall

Economic Type Operable Partition Wall

Economical track system are the most widely used system for the operable partition, they are very easy to install and cost-effective, all the intersection is fine welded, ensure the smooth movement for the panels, the track system can work on both mono-direction and multi-direction, just lubricate and maintain regularly, the system can work for a very long period.



Base on the size of the panels, we can choose the system above accordingly, the aluminum system can only support the panel maximum up to 6m height, over 6m height will be using heavy duty steel system, because if the panel is too height, moving the trolley from the intersection will be difficult, the curved turn will be required for guiding the trolley to change direction automatically.

Track system for Premium Type Partition

The premium type track system is the upgrade version of the economic type, all the intersection is die casting, no bump feeling while the trolley passing over it. The trolley is special designed with buffer structure, greatly reduce impact to the system and the noise, safety wire is built inside the trolley, the panel won't fall even when the support rod is broken. The most important thing is that this new type of system does not need any lubrication and maintenance.

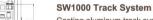


SW600 Track System

Track system for right-angled configurations with cross-roller carries for element weights up to 500kg. Support rollers in the junctions guarantee easy operation when sliding the elements across intersections



Casting aluminum track system for right-angled configurations with horizontal rollers for easy maneuverability of intermediate height panels



Casting aluminum track system for ultra height panels with mechanically guided heavy duty steel bearing rollers plus curves and switches for maximum ease of operation



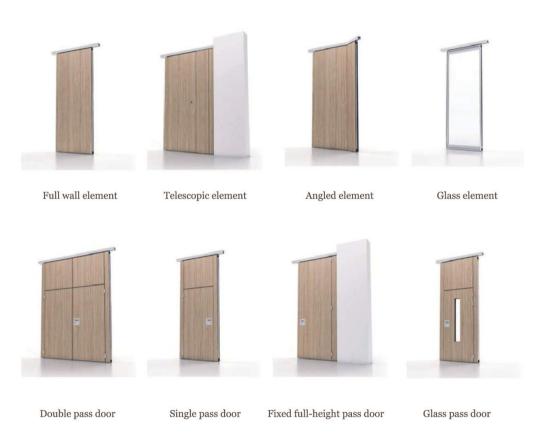
Complete steel track system for ultra height panels with mechanically guided heavy duty steel bearing rollers plus curves and switches for maximum ease of operation





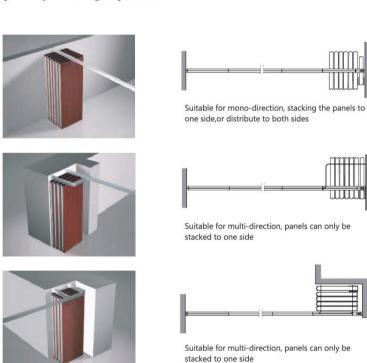
Various Elements Options

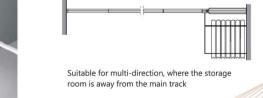
There are various types of elements combined a whole set of partition wall, suitable for almost any kinds of circumstances and setting. Not only the solid type but also the glazing partition can do the same, even combining both glazing and solid together, to satisfy all kinds of unique design features and specification.



Stacking Options

There are various of stacked options based on the room situation, all the panels can form a compact package to save spaces, followings are the standard parking solutions, there are more other special possibility for stacking the panels as well.





Typical Structural Installation

	Economical Manual Operable Partition	Premium Manual Operable Partition	Economical Semi-Auto Partition	Premium Semi-Auto Partition	Frameless Glass Partition	Double Glazed Partition	Semi-Auto Double Glazed Partition
Track System	Welded	Die Casting	Die Casting	Die Casting	Welded / Die Casting	Die Casting	Die Casting
Wheel	Rubber + Steel	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel	Rubber + Steel	304 Stainless Steel	304 Stainless Steel
Wheel Safety	/	Wire Rope	Wire Rope	Wire Rope	/	Wire Rope	Wire Rope
Lubrication for Track System	Needed	No Need	No Need	No Need	Needed	No Need	No Need
Partition Movement	Manually	Manually	Manually	Manually	Manually	Manually	Electric
Retractable Seal	Up + Down	Up + Down	Up + Down	Up + Down	/	Up + Down	Up + Down
Retractable Seal Movement	One-Time Trigger Spring	Lifting Jack Mechanism	Electric Motor x 1	Micro Electric Motor x 2	1	One-Time Trigger Spring	Micro Electric Motor x 2
Expected Life Cycle of E-Motor	ĵ	/	10 Years 50,000 Times	10 Years 50,000 Times	/	/	10 Years 50,000 Times
Side Sealing Element	/	Yes	Yes	Yes	/	Yes	Yes
Telescopic Sealing Panel	Manually Control	Manually Control	Electric	Electric	Manually Control	Manually Control	Electric
Angle Element	1	Any Degree	Any Degree	Any Degree	/	Any Degree	Any Degree
Inner Keel	Aluminum	Aluminum	Aluminum	Wooden Batten	Wooden Batten	/	/
Internal Reinforced Support	/	Galvanized Steel Frame	Galvanized Steel Frame	Galvanized Steel Frame	/	Galvanized Steel Frame	Galvanized Steel Frame
Base Board	E2 MDF	E1 MDF	E1 MDF	E1 MDF		Tempered Glass	Tempered Glass
Contact Between Panels	Rubber	Rubber + Magnet	Rubber + Magnet	Rubber + Magnet	/	Rubber + Magnet	Rubber + Magnet
Sound Blanket	Fiber Glass	Rock Wool	Rock Wool	Rock Wool	/	/	T
Insulation	o.8mm Normal Steel Sheet	1.2mm Galvanized Steel Sheet 12mm Gypsym Board 3mm Sound Insulation Mat	1.2mm Galvanized Steel Sheet 12mm Gypsym Board 3mm Sound Insulation Mat	1.2mm Galvanized Steel Sheet 12mm Gypsym Board 3mm Sound Insulation Mat	12mm Tempered Glass x 2	12mm Tempered Glass x 2	12mm Tempered Glass x 2
STC Level	Max. 45dB	Max. 6odB	Max. 51dB	Max. 55dB	/	Max. 45dB	Max. 50dB
Warranty	3 Years	5 Years	5 Years	5 Years	3 Years	5 Years	5 Years
Package	Carton	Wooden Box	Wooden Box	Wooden Box	Wooden Box	Wooden Box	Wooden Box
Height	Max. 9m	Max. 18m	Max. 12m	Max. 18m	Max. 3m	Max. 4m	Max. 4m
Thickness	65, 85, 100, 125mm	85, 100, 125mm	100, 125mm	100, 125mm	8, 10,12mm	85, 100mm	100 mm
Weight	35kg/m²	45kg/m²	55kg/m²	30kg/m²	10kg/m²	25kg/m²	25kg/m²

Installation Sketch of Spherical Rack



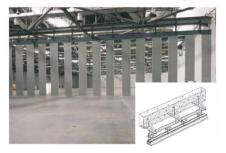
Installation Sketch of Slab Fixing



Installation Sketch of Truss Structure



Installation Sketch of Beam Fixing



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The high technology and quality movable partition have been accredited by the authoritized organizations at home and abroad

The advantages of our movable partition is the excellent sound insulation effect and fire retardant level. According to different requirements, we can provide sound insulation level from STC 36 to 55dB. The quality has been certified by international professional laboratory.

