A Sound Operable Partition Solution



Hufcor Operable Partitions are installed throughout the world in the finest hotel conference rooms, ballrooms, schools, religious buildings, convention centres and corporate facilities.
The Hufcor history of quality, reliability, innovation and service to the industry is the reason architects, engineers and specifiers routinely choose Hufcor Operable Partitions.

TUYNHUYS

iFUBA HUFCOR®

Operable Acoustic Partitions

iFUBA
into the future...

Hufcor offers an extensive range of Operable Partitions. Each series was developed for varying space division, acoustical design and budget needs. Here in South Africa we offer the 3000, 5000 and 7000 series. On request other imported models are available to suit specific needs. The 5000 & 7000 series are available in paired panels and omni directional configurations and the 3000 is available in centre stacking and omni directional configurations.
Also described as air walls, movable or flat panels, operable partitions are a series of interlocking panels suspended from an overhead track system. When in place, the panels are similar in appearance to a permanent wall. A selection of face coverings are available to match or co-ordinate with the room dècor. Accesories such as pass doors, pocket doors, writing and tack boards provide versatility to the product.







SATISFIED CLIENTS INCLUDE:

Tuynhuys
Liberty Life
Spur Conference Centre Kenya
Investec
Unilever
Protea Hotels
City Lodge
Eskom
Vodacom
King Shaka Airport
Hyatt Hotel
Arabella Hotel
BOE Clocktower
Rainbow Chickens
Latter Day Saints
Nedbank
Varsity College
Toyota SA
Deloitte Port Elizabeth
Villa Rosa Hotel - Nairobi
Cape Coral Hotel
Radisson Blu Hotel
Standard Bank SA
Hemmingways Casino
Cedar Park Hotel
Growth Point Properties
Mercedes Benz SA
Ernst & Young
Adams & Adams



Panel Construction

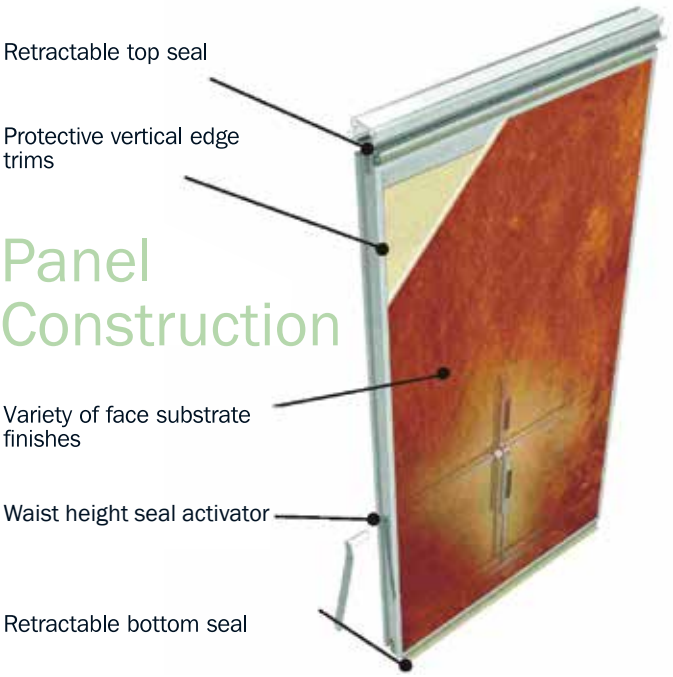
Panels are nominally 68, 76, 100mm thick and up to 1200mm in width. Face substrates are MDF (medium density board) with appropriate backings to meet sound transmission class requirements. Panel frames are anodised or powder coated extruded aluminium formed to fully capture and protect the edges of the face material. Top hung Series 3000, 5000, 7000 panels are engineered to perform at heights 3 to 6 metres. No floor tracks or guides are required.

Removable Operating Handle

This prevents unauthorised panel movement. An easy half turn of the handle sets and retracts the mechanical seals. Users will appreciate the convenience of waist height location of the activator. No bending and tedious cranking is required with Hufcor.

Finishes

A variety of face finishes are available and these can include Fabrics, Wood Veneers, High Pressure Laminates, Carpets, Vinyls, Paints or any other custom finish made to specification and to match your dècor.



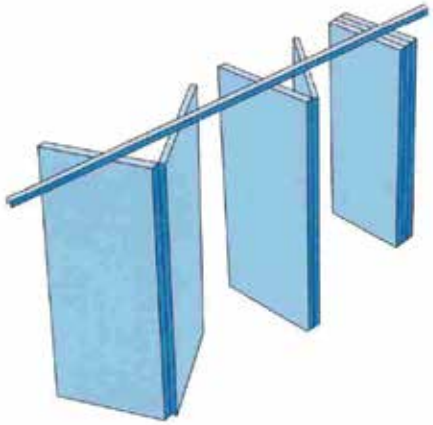
Panel Options

Paired Panels

Panels are hinged in pairs. The hinged paired panel system cuts down set up and take down time as sets of two panels can be operated together. The panel has a single carrier suspension. Panels are parked at the end of the run of track when the wall is open. The system is best utilized in areas where centre stacking of panels might be the most feasible and practical option for parking the panels and when parking panels off the main track is not a possibility.

This panel option is available in our 5000 & 7000 series.

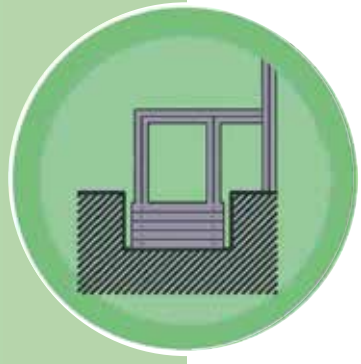




Centre Stack Panels

As per paired panels but not hinged.

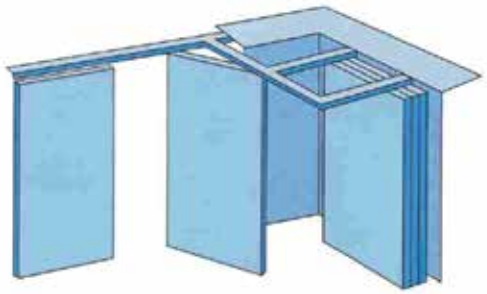
Available only in the 3000 series.



Omni-directional Panels

Individual, single operated panels offer maximum room flexibility. The track system enables panels to negotiate angles and be remotely parked. The panel has a two counter rotating carrier.

This panel option is availble in our 3000, 5000 & 7000 series.





Series Selector

Product Selector				Product Details	
Series	Configuration	Track & Carrier	STC	Maximum Height	Weight Kg/m²
3000	CENTRE STACK	TYPE 28	29	3000	23KG
3000	CENTRE STACK	TYPE 28	32	3000	25KG
3000	OMNI	TYPE 26	29	3000	23KG
3000	OMNI	TYPE 26	32	3000	25KG
5000	PAIRED PANELS	TYPE 38	40	5000	30KG
5000	PAIRED PANELS	TYPE 38	44	4200	34KG
5000	PAIRED PANELS	TYPE 40	48	5000	43KG
5000	PAIRED PANELS	TYPE 40	51	5000	47KG
5000	OMNI	TYPE 26	40	5000	30KG
5000	OMNI	TYPE 26	44	5000	34KG
5000	OMNI	TYPE 36	48	5000	43KG
5000	OMNI	TYPE 36	51	5000	47KG
7000	PAIRED PANELS	TYPE 40	50	5000	46KG
7000	OMNI	TYPE 36	50	6000	46KG

Track & Carriers Type 57 available for Panel Hanging Weight in excess of 45KG

Add 54KG for Pass Door

Stack Depths:

3000 Series = 68mm per Panel Thickness + 40mm per LCP

5000 Series = 82mm per Panel Thickness + 40mm per LCP

7000 Series = 100mm per Panel Thickness + 40mm per LCP



ARABELLA SHERATON HOTEL

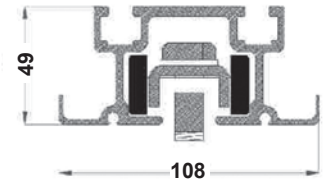


UNILEVER

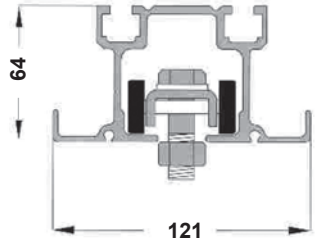


LIBERTY LIFE UMHLANGA RIDGE

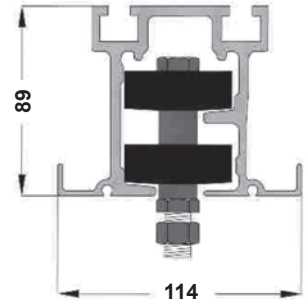
Type 28 for centre stack panels up to 150kg



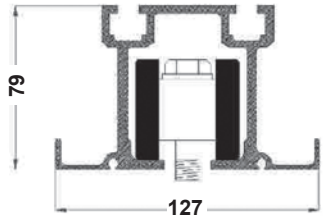
Type 38 for paired panels up to 182kg



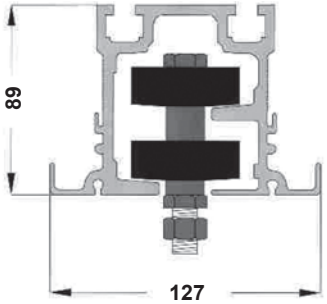
Type 26 for omni panels up to 227kg



Type 40 for paired panels up to 300kg



Type 36 for omni panels up to 455kg

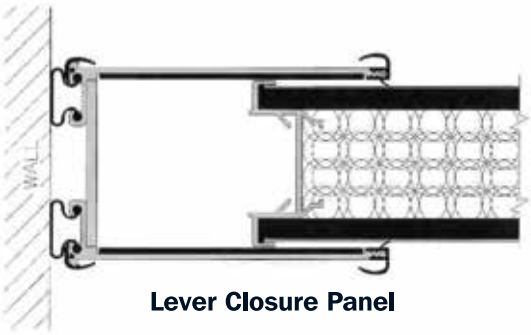


Operable Partition Track Carriers

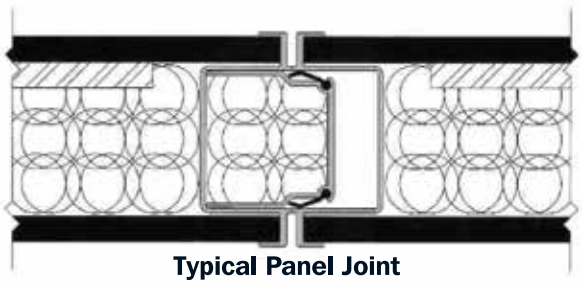
Hufcor's quality track systems are the key to years of fast and easy partition movement. It will save money by minimizing setup and takedown as well as downtime for repairs. Job site conditions vary which is why we offer a wide selection of track systems to meet your needs. Each has been life cycle tested for a minimum of 100 miles (approximately 10 years of use) - further assurance of proven quality. Hufcor track systems, like our panels, may be modified to meet specific job site conditions.
Flush mounting or challenges with the existing overhead structure can be accommodated.
Hufcor's durable corrosion-resistant aluminium track systems are easy to install and easier to maintain.
Extruding enables each section to have a uniform shape for superior end-to-end alignment. Each capacity-certified track is extruded architectural grade clear anodised aluminium and includes these features and benefits:

- **Rated at 31,000 psi.**
- **15 Micron anodised coating ensures a smooth, hard running surface and prevents oxidation.**
- **Unitised design prevents sound leaks, protects the ceiling and provides for suspension components.**
- **Alignment pins tightly align track joints important for long carrier life.**
- **Quiet carrier operation**

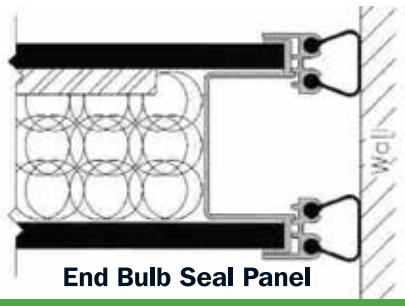
Typical Sectional Details



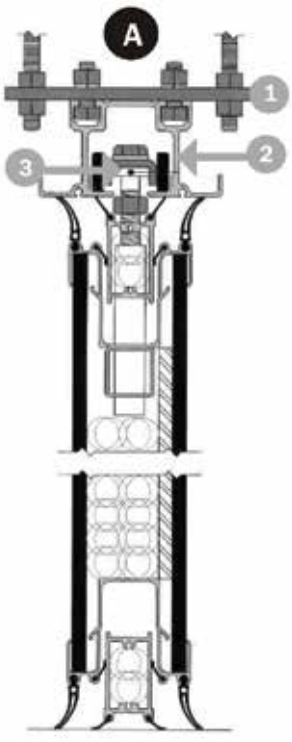
Lever Closure Panel

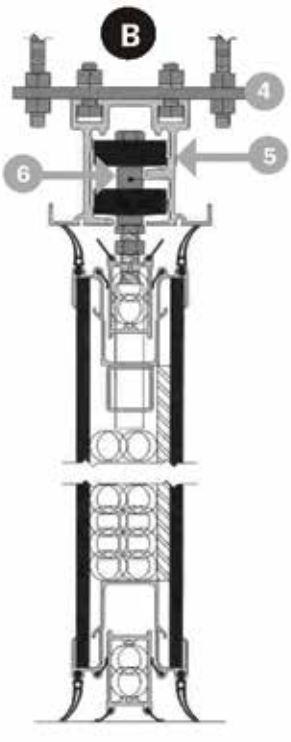


Typical Panel Joint



End Bulb Seal Panel











A

Paired Track Type 38 Section
Standard Panel Cross Sectional View

1. 160 x 80 x 8mm THK Suspension Plate
2. Type 38 Track
3. Paired Carrier

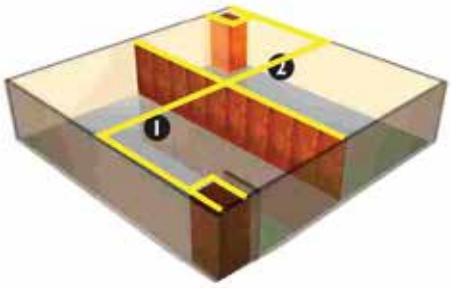
B

Omni Track Type 26 Section
Standard Panel Cross Sectional View

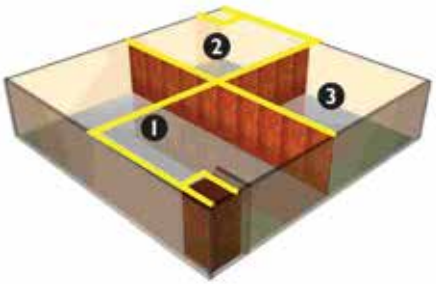
4. 160 x 80 x 8mm THK Suspension Plate
5. Type 26 Track
6. Omni Carrier

Optimal Space Planning

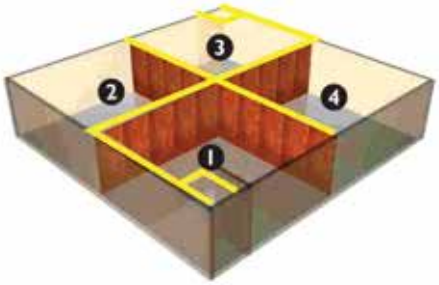
Room Division **Scenario 1**



Room Division **Scenario 2**



Room Division **Scenario 3**



Operable Partition Acoustics

Why the big difference between lab and field ratings?
STC ratings can be used for comparison but your actual acoustics will probably be worse. Generally, it is not a good idea to design a building to be as good acoustically as a laboratory. Purely and simply, it costs too much.

Flanking paths
Sound, like water, follows the path of least resistance. If there are leaks in the surrounding construction, even the best movable partition will not provide a good sound barrier. Shoddy construction, customary construction practices, or poor installation of the partition can all contribute to the leaks, known as 'flanking paths'.

Keeping an eye on details
Flanking paths can be present even when the surrounding construction is of good quality. Direct HVAC ductwork between rooms, common lobbies and corridors, and open plenums above suspended ceilings are all perfect escape routes for sound. The ceiling tiles themselves, whose porous properties help prevent reverberation, allow sound to pass through easily. Uneven floors and out-of-plumb walls also contribute to leaks as do recessed lighting, access panels, projection and lighting booths, and other design details.

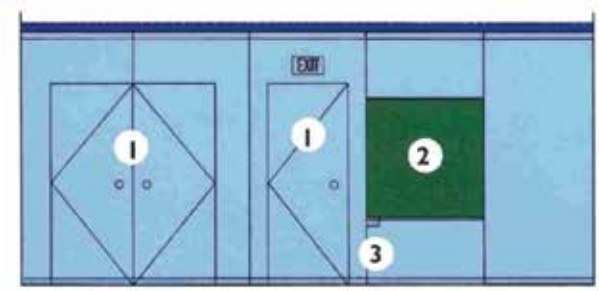
HOW GOOD IS AN STC (Sound Transmission Class) RATING? Use the following chart to get a rough idea what various STC levels mean in terms of privacy afforded. Note that this is only a very rough guide.

STC	PRIVACY OFFERED
25	Normal speech easily understood
30	Normal speech audible, but unintelligible
35	Loud speech understood
40	Loud speech audible, but unintelligible
45	Loud speech barely audible
50	Shouting barely audible
55	Shouting not audible

STC OF FAMILIAR CONSTRUCTIONS
Listed below are some typical building items and materials to give you an idea how the typical operable partition compares.

STC	CONSTRUCTION
18	Hollow
22	Metal door without seals
26	Solid wood door without seals
32	6.38mm glass
41	12mm plate glass
42	100mm painted concrete block wall
46	16mm drywall on steel studs, both sides
48	230mm hollow concrete block
50	305mm painted concrete block wall
53	Double 16mm drywall on steel studs

Accessories



1. Pass Door
Available in single or double doors. Hufcor pass doors are of the same construction and finish as the panels. We do not recommend double pass doors in paired panels.

2. Work Surfaces
Chalkboard, Dry Marker Board, Tackboards.

3. Pocket Doors
The finishing touch to your installation, pocket doors cover the opening of the partition storage area. The doors may be factory finished to match the partitions.
When designing a pocket to store a partition, allow enough width for easy access and panel movement. Prevent pinched fingers and scraped knuckles by adding a minimum of 150mm to the width of the widest panel - more if you can spare it

Preplanning & Basic Guides To Consider

Determine what space you want to divide
If you wish to divide an existing area, determine what space you wish to divide. As you look at the space, notice the location of exposed sprinkler heads, columns, windows, chair rails, skirting or any other mechanicals that could interfere with the installation or operation of the proposed partitions. Make certain the new space includes everything needed for the activities it will accommodate.

Support needed
Most partitions are supported from the building's overhead structure. A check above the ceiling will need to be made to make certain if there are any obstructions in the area in which you wish to place a partition. You may require the services of an engineer to determine if the overhead structure is adequate to support the partition.

What type of activities will be held in the room?
This will determine how much sound control is needed. The acoustical rating required is one of the important factors that will determine the series that is right for the functional requirements of your operable partition.
Customers often request the highest partition sound rating without considering the sound control of the entire room. The room in which the partitions area located must have a rating equivalent to that of the partitions to achieve optimum sound control. Independent acousticians are also available to conduct these tests.

How much storage space is available?
Location of the partition storage space affects what configuration of partition is needed.
Determine the area where the partitions will be stored or "stacked" when they are not in the opening. Typically this is at one or both ends of the opening. If there is not enough space in the room, the partition can be moved to a remote storage area with the use of additional track. Panels can even be stored parallel with the perimeter walls if needed. Partitions are often stored in a pocket, which is a closet created for that purpose. Hufcor offers pocket doors, which cover the pocket opening. The pocket doors may be factory finished with the same covering as the partition. They may also be shipped to the job site unfinished for finishing to match the perimeter walls.

Do you have special finishing needs?
Speak to our sales consultants about your design needs. A variety of Fabric, Carpet, High-pressure laminate, Wood veneers and other exciting design features are available as face dressing for your partition.

Call our sales consultants
Now that you have a rough idea of how you wish to use and divide the space, contact our consultants. They are ready to help you determine what partition system is right for you and provide layout, design assistance and pricing.

SPECIFY PARTITION SYSTEMS

3000 (CENTRE STACK / OMNI)

Supply and install Ifuba Hufcor 3000 Series Operable Partition, with an (STC 29/32) to suit opening size (Height x Width) with panels faced (Specify Finish), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium (Specify Finish) surround frame. Suspended from track and carriers (Type 28 Centre Stacking / Type 26 Omni) including all necessary suspension components and acoustic baffle to specified STC class of panels fitted to and above the track in the ceiling void to a height of (Specify Height of Void).

5000 SERIES (PAIRED PANELS / OMNI)

Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size (Height x Width) with panels faced (Specify Finish), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium (Specify Finish) surround frame. Suspended from track and carriers (Type 38/40 Paired) (Type 26/36 Omni) including all necessary suspension components and acoustic baffle to specified STC class of panels fitted to and above the track in the ceiling void to a height of (Specify Height of Void).

7000 SERIES (PAIRED PANELS / OMNI)

Supply and install Ifuba Hufcor 7000 Series Operable Partition, with an STC 50 to suit opening size (Height x Width) with panels faced (Specify Finish), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium (Specify Finish) surround frame. Suspended from track and carriers (Type 38/40 Paired) (Type 26/36 Omni) including all necessary suspension components and acoustic baffle to specified STC class of panels fitted to and above the track in the ceiling void to a height of (Specify Height of Void).
EXTRA OVER TO 5000 & 7000 SERIES Single Pass Door - 2030 x 800 Double Pass Door - 2030 x 1600.

Your local distributor is:

iFUBA
into the future...

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