MOVABLE WALL SYSTEMS.
A FLEXIBLE SOLUTION FOR EVERY SPACE.
Our products help to expand the imagination of designers. This applies especially to the development of flexible space-saving solutions for hotels, congress and convention centers, schools, restaurants, shopping centers and commercial buildings. Our greatest strength is our ability to deliver custom work. The Palace series, especially, is proof of this: a durable movable wall that is extremely easy to operate. In addition to our standard models Palace 80, 90 and 110 we offer many other possibilities, all of them functional and fire-resistant, if required. The design can be tailored seamlessly to your project.

For instance, if you wish to divide a room without any loss of sound insulation and transparency, our latest model Transpalace may offer the best solution. Every square metre of your area to be divided can be used as efficiently as possible. We offer durable and quickly realisable solutions for every work or meeting place. Of course, we also offer optimal support; not only during the design and construction process, but afterwards as well.
In no time at all, Palace will enable you to divide a large space into smaller units. Thanks to our extensive experience with bearing technology and the rolling properties of a variety of different materials, we can find a high-quality, durable rail and trolley construction for every application that will also ensure an optimal ease of operation. (Floor guidance mechanisms will not be an obstruction to your floor.) Stability as well as perfect sound insulation: two typifying characteristics of Palace walls. The spindle mechanism and the so-called acoustic pressure sleeves secure the different panels firmly between the floor and the track. In addition, the parking possibilities are virtually unlimited.
PALACE 80

- sound insulation from 36 to 44 dB Rw
- maximum height 3.05 metres
- stable and self-supporting frame construction
- enormous flexibility thanks to a broad range of panel types

**Models**
- standard version with covering profiles
- very easy to operate due to light construction
- high-quality track and trolley system

For many types of users, the Palace 80 may very well be the ultimate solution for creating more space and flexibility. This movable wall with a panel thickness of only 80 mm will guarantee an optimal ease of operation with only the slightest loss of space. The favourable cost aspect also makes it an excellent alternative. Furthermore, the Palace 80 proves that a slim construction does not affect the stability and sound insulation.

The trolleys of this wall are suspended on metal bearers running horizontally through the panel. The result is a self-supporting structure.
PALACE 110

- sound insulation of 37 to 57 dB Rw
- durable and stable metal construction
- possible heights of more than 15 metres
- optimal flexibility, curved walls and tracks possible
- available in a fire-resistant model of up to 30 and 60 minutes
- available in a broad range of finishes
- high-quality track and trolley system
- semi-automatically operated top & bottom seals possible
MOVABLE WALL SYSTEMS
PRESIDENT

An enormous degree of user-friendliness and an extensive range of options as to design and finish are among the President's greatest advantages. In addition to design, we also pay a great deal of attention to user-friendliness.

- completely transparent partition
- height up to 3.5 metres
- curved segmented models available
- virtually unlimited choice of options in pattern and design
- high-quality track and trolley system
- extremely durable clamping construction without necessity of drilling the glass
- profiles and track available in several colours
CLEAR OPTIONS FOR EVERY SPACE

Movable glass walls offer a variety of applications: in shops, hotels, cafes and restaurants and government, banking and insurance buildings, for instance. The President series makes it easy for you to create privacy, while its transparency and open look and feel will allow the space itself to remain intact. Thanks to its slim construction, this functional and stable wall will take up only a remarkably small amount of space in a parked position.

From shopping-arcade to reception area: the President is stylish and will let in plenty of light. For additional privacy, the glass can be etched, sandblasted or decorated with foil. Your company logo, texts and entire designs can also be added. Because we develops and produces the President series completely under its own management, there’s practically no limit when it comes to turning creative ideas into practical solutions. A selection can be made, for instance, between straight and curved, as well as segmented panels. Let your imagination run free and discover, with the help of our consultants, which movable glass wall will be shown to its best advantage in your project!
ADVANTAGES OF A WELL ENGINEERED DESIGN

Perfection to even the tiniest details: that’s one of our typifying characteristics. From raw materials and a perfectly monitored production process to finished products of the finest quality. Our standard options include an extensive choice of glass types and finishes. Regardless of whether your interior is dominated by light or dark colours: the aluminium parts of our President series are available in nearly every colour imaginable. An important detail: the glass panels of the President series have been developed so that vertical aluminium profiles will not be necessary. So no matter where your wall is to be installed, you can always choose an unbroken design without the obstruction of unnecessary frames. Clarity and transparency are among our highest priorities.
### TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Track and Trolley Configuration</th>
<th>Guidance Type</th>
<th>Maximum Load</th>
<th>Maximum Advisable Opening Height</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Track 1 &amp; Trolley CG1</strong></td>
<td>Cross Guidance (CG) only</td>
<td>75 Kg per trolley = 150 Kg per element</td>
<td>3100 mm</td>
</tr>
<tr>
<td><strong>Track 2 &amp; Trolley CG2</strong></td>
<td>Cross Guidance (CG) or One point Guidance (OG)</td>
<td>225 Kg per trolley / 450 Kg per element</td>
<td>4200 mm</td>
</tr>
<tr>
<td><strong>Track 2c &amp; Trolley CG2 - “silent”</strong></td>
<td>Cross Guidance (CG) only</td>
<td>175 Kg per trolley / 350 Kg per element</td>
<td>3100 mm</td>
</tr>
<tr>
<td><strong>Track 3 &amp; Trolley CG3</strong></td>
<td>Cross Guidance (CG)</td>
<td>225 Kg per trolley / 450 Kg per element</td>
<td>7200 mm</td>
</tr>
<tr>
<td><strong>Track 9 &amp; Trolley FG4</strong></td>
<td>Forced Guidance (FG)</td>
<td>800 Kg per trolley / 1600 Kg per element</td>
<td>&gt; 7200 mm</td>
</tr>
<tr>
<td><strong>Track 5 &amp; Trolley CG5</strong></td>
<td>Cross Guidance (CG) or One point Guidance (OG)</td>
<td>175 Kg per trolley / 350 Kg per element</td>
<td>4200 mm</td>
</tr>
</tbody>
</table>

**Notes:**
- If weight of elements is over 350 kg, parking tracks must be executed as track type 3,5 (re-enforced).
- For specific guidance types and opening heights, see corresponding sections.
## Cross sections of panel joints

<table>
<thead>
<tr>
<th>Type</th>
<th>80</th>
<th>Transpalace</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel thickness</td>
<td>80 mm 1500-3050 mm 600-1240 mm</td>
<td>80 mm 1500-3050 mm 600-1240 mm</td>
<td>90 mm 1500-4000 mm 600-1240 mm</td>
</tr>
<tr>
<td>Panel height</td>
<td>1500-3050 mm</td>
<td>1500-3050 mm</td>
<td>1500-4000 mm</td>
</tr>
<tr>
<td>Panel width</td>
<td>600-1240 mm</td>
<td>600-1240 mm</td>
<td>600-1240 mm</td>
</tr>
<tr>
<td>Frame construction</td>
<td>aluminium / wood</td>
<td>aluminium</td>
<td>aluminium / wood</td>
</tr>
<tr>
<td>Board material</td>
<td>10 mm, carried by the construction</td>
<td>10 mm safety-glass carried by the construction</td>
<td>18 mm, carried by the construction</td>
</tr>
<tr>
<td>Fire safety</td>
<td>optional fire-retardant class B1/M1</td>
<td>optional fire-retardant glass</td>
<td>optional fire-retardant class B1/M1</td>
</tr>
<tr>
<td>Vertical profiles</td>
<td>aluminium, anodized, with sealing profiles</td>
<td>aluminium, anodized, with sealing profiles</td>
<td>aluminium, anodized, with sealing profiles invisible when wall is closed</td>
</tr>
<tr>
<td>Pressure sleeves</td>
<td>aluminium, black with double sealing profiles</td>
<td>aluminium, black with double sealing profiles</td>
<td>aluminium, black with double sealing profiles</td>
</tr>
<tr>
<td>Operation of pressure sleeves</td>
<td>manual</td>
<td>manual</td>
<td>manual</td>
</tr>
<tr>
<td>Doors</td>
<td>single door in panel or fixed single door</td>
<td>single door in panel or fixed single door*</td>
<td>single door in panel or fixed single door</td>
</tr>
<tr>
<td>Sound insulation</td>
<td>36, 40, 42 and 44 dB Rw</td>
<td>44 dB Rw</td>
<td>37, 40, 42 and 45 dB Rw</td>
</tr>
<tr>
<td>Weight (depending on sound insulation value)</td>
<td>approx. 20 - 37 kg/m²</td>
<td>approx. 65 kg/m²</td>
<td>approx. 31, 33, 43 and 58 kg/m²</td>
</tr>
</tbody>
</table>

The dB-values have been measured according to ISO 140, Rw value established according ISO 717. Test reports available on demand.

* Door elements not in glass, will be solid.
**Two point suspension, cross guidance, CG (4 x)**

<table>
<thead>
<tr>
<th>110</th>
<th>110 I</th>
<th>110 S</th>
<th>110 SI</th>
<th>110 S F30</th>
<th>110 F60</th>
</tr>
</thead>
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<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
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<tr>
<td>1500-5500</td>
<td>1500-5500</td>
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<td>1500-15000</td>
<td>1500-3450</td>
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<tr>
<td>600-1240</td>
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<td>600-1240</td>
<td>600-1240</td>
<td>600-1240</td>
<td>600-1240</td>
</tr>
<tr>
<td>steel / aluminium</td>
<td>steel / aluminium</td>
<td>steel / aluminium</td>
<td>steel / aluminium</td>
<td>steel / aluminium</td>
<td>steel / aluminium</td>
</tr>
</tbody>
</table>

- **18-20 mm, part of the construction**
  - **optional fire-retardant class B1/M1**
  - aluminium, anodized, with sealing profiles
    - 18-20 mm, part of the construction
  - aluminium, black with double sealing profiles
    - manual or electrical

- **14-18 mm, carried by the construction**
  - optional fire-retardant class B1/M1
  - aluminium, anodized, with magnetic strips and sealing profiles
    - carried by the construction
  - aluminium, black with double sealing profiles
    - manual or electrical

- **14-18 mm, fire-retardant class B1/M1, carried by the construction**
  - 30 minutes fire-resistant
  - aluminium, anodized with magnetic strips and fire protecting strips invisible when wall is closed

- **30 minutes fire-resistant**
  - aluminium, black with double sealing profiles and fire resistant strips

- **37, 43, 45, 47, 50, 53 and 56 dB Rw approx.**
  - 33-55 kg/m²
  - 33-55 kg/m²
  - 31-50 kg/m²
  - 31-50 kg/m²
  - 33-52 kg/m²
  - 45 kg/m²

Other product versions and sizes on request.

We will be pleased to supply you with detailed (technical) information.
FIRE RESISTANCE

Parthos continually improve their products and invests heavily in product development. The R&D department is always aspiring to the needs and desires of our customers and developing new solutions.

Also Parthos pays close attention to the European directives concerning fire safety of building products. Fire resistance of movable walls depends on the behaviour of the wall construction when subjected to fire.

Specifically spread of flame and thermal insulation are important criteria. Various tests (in accordance with EN 1364) with renowned institutes have proved that Parthos is able to produce a movable wall, with integrated pass door, with a 30 minutes fire resistance. A reputation is established!

So when fire resistance is a must, you have the choice of the Parthos Palace supplied in EI30 or even EI60 classification.

SOUND INSULATION

The sound insulation of a movable wall is defined by International Standard Laboratory measurements in accordance with ISO 140-3.

In building practice however, there will never be an ideal laboratory situation. The sound insulation between two rooms will always be affected by the surrounding construction. Generally the sound insulation will deviate approximately 5 to 10 dB from the laboratory measurement. Sound waves will pass through and under flooring (carpet), through walls and windows, above suspended ceilings and through ventilation ducts. These aspects must all be taken into account when selecting the appropriate wall system and the required demands of the rest of the building. Adding integrated pass door(s) also affects the sound insulation. This, in combination with proper operation and maintenance of the wall, will define whether the desired sound insulation is achieved or not.

We will help you with pleasure! Through our long experience we can advise you at the design stage in order to improve the acoustics of your room.
PROJECT REFERENCES

PROJECT: SIAM PARAGON BANGKOK, THAILAND

Height: 12.5 meter
Square meter: 705 m2
Surface material: HPL
Palace: 110S, 50dB

Finished in November 2005

PROJECT: MARINA BAY SANDS, SINGAPORE

Height: 5.35 meter, 8.5 meter, 9.1 meter
Square meter: 27,500 m2
Surface material: Laminated, Vinyl
Palace: 110S, 50dB

Case:
- World’s biggest single movable wall project
- 9.1 meter height 60 min FRD

Finished in January 2011