Data Sheet
WÖHR PARKING PLATFORM 503

For longitudinal shunting
Suitable for residential and office building in enclosed parking garages without public use.
Dimensions in cm. Standard load per parking place max. 2000 kg (max. wheel load 500 kg).
(Comfort Type load per parking place max. 2300 kg (max. wheel load 575 kg.).)

### Layout dimensions

#### Single Platform 503 EP for 1 car

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Standard 503 EP - 2,0</th>
<th>Comfort 503 EP - 2,3</th>
<th>Standard 503 TP - 2,0</th>
<th>Comfort 503 TP - 2,3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity of cars</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Car length [m]</td>
<td>5.00</td>
<td>5.30</td>
<td>5.00</td>
<td>5.30</td>
</tr>
<tr>
<td>Car weight [kg]</td>
<td>2000</td>
<td>2300</td>
<td>2000</td>
<td>2300</td>
</tr>
<tr>
<td>Platform length [m]</td>
<td>5.00</td>
<td>5.30</td>
<td>10.00</td>
<td>10.60</td>
</tr>
<tr>
<td>Travel path [m]</td>
<td>4.70</td>
<td>5.00</td>
<td>9.70</td>
<td>10.30</td>
</tr>
<tr>
<td>Platform width [m]</td>
<td>2.17</td>
<td>2.45</td>
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<td>2.45</td>
</tr>
</tbody>
</table>

#### Tandem Platform 503 TP for 2 cars behind each other

<table>
<thead>
<tr>
<th>Dimension</th>
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</tr>
</tbody>
</table>

### Notes

1. Cars with higher wheel load or weight cannot park or drive over empty platforms – first move, then drive.
2. The manufacturer reserves the right to construction or model modifications and/or alterations. Furthermore, the right to any subsequent part modification and/or variations and amendments in procedures and standards due to technical and engineering progresses in the art or due to environmental regulation changes, are also hereby reserved.
3. We do not recommend installing longitudinal platforms in two way drive areas or in front of mechanical car parking systems, walkways, doors or emergency exits.
4. The parking platforms, max. height approx. 10 cm, have ramped edges and corners and it is therefore possible to drive over them by car.
5. In the case that local requirements require minimum ceiling heights, please remember to add the platform height.
6. Access to the underground parking garage must be restricted, by the customer, to authorized persons, e.g. by a key.
Evenness and tolerances

According to EN 14010 the danger of trapping between nonparallel platforms edges and the ground has to be prevented. The distance between the lower flange of the platforms and the garage ground must therefore not exceed 2 cm.

To adhere to the safety regulations and to get the necessary even ground, the tolerances of evenness to DIN 18202, table 3, line 3, must not be exceeded. Therefore exact levelling of the ground by the client is essential.

Abstract from DIN 18202, table 3

<table>
<thead>
<tr>
<th>line</th>
<th>reference</th>
<th>Vertical measurements as limits in mm with measuring points distances in m to *</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Unfinished to surface of covers, subconcrete and subsoils for higher demands, e.g. as foundation for cast plaster floor, industrial soils, paving tiles and slabstone paving, compund floor paving. Finished surfaces for minor purposes, e.g. warehouses, cellars</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,1 1 4 10 15 20</td>
</tr>
<tr>
<td>3</td>
<td>Finished grounds, e.g. floor pavement serving as foundation for coverings. Coverings, tile coverings, PVC flooring and glued coverings.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 4 10 12 15</td>
</tr>
</tbody>
</table>

* Intermediate values are to be taken out the diagram and must be rounded-off to mm.

Check points

The evenness of a surface is checked independently of its position and slope by bore hole gauges between two check points on the surface. WÖHR normally make a random test using single measurements in case of obviously inaccurate surfaces.

For uniform examination of the evenness of the ground surface the following points are defined as measuring and check points:

a) Layout for surface recess width 270 (300) cm.

b) Layout for finished floor after placing floor pavement

ateriales que se deben tener en cuenta:

- Ensuring that the distance between the lower flange of the platforms and the garage ground does not exceed 2 cm.
- Adhering to safety regulations by ensuring that the tolerances of evenness as per DIN 18202, line 3, are not exceeded.

Tables and diagrams provide specific measurements and tolerances for different ground conditions.

For reference:
- DIN 18202: Safety regulations for garages and parking garages.
- EN 14010: Safety of platforms and parking spaces.

Additional resources:
- WÖHR Autoparksystem GmbH
- Information on specific tolerances and measurements.
**Track and floor details**

The moving rail load of each platform wheel is max. 4 kN.

The evenness of the floor + screed must be achieved according to DIN 18202, table 3, line 2. After checking the floor + screed the levelling rails are mounted on top of the highest point.

The underlining and fixing of the levelling rails occurs at the intended fixing points. For the laying of the running and levelling rails a meter tear is to be attached permanently for every railway track by the client.

The screed is to be peeled off by the client on height of the levelling rails. In the event that an additional ground cover layer is arranged for on the building site, said cover layer must be levelled or ground off to the height of the running and levelling rails and needs to be provided to screed height. The running and levelling rails must be free of the cover layer.

The running rails are fastened after placement of the screed with heavy duty anchor bolts. Evenness according to DIN 18202, table 3, line 3. Do not use mastic asphalt.

In the area of the railway track no expansion gap or building dividing gaps are allowed.

With later installations of the parking platforms, dependent on the ground evenness, an additional screed must be taken into consideration by the client. The decision of the steps occurs after a levelling.

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**Drainage**

According to EN 14010 the distance between finished floor and platform may not exceed 2 cm to avoid any danger to persons feet.

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**Above floor drive**

This drive solution is used for new garage buildings and for existing car parks. It is mounted in front of columns using the available space and avoiding pit arrangements. The above floor drive unit has a moveable cover with electrical sensors. If the cover is moved the platform stops immediately in order to avoid any accidents. In the case of garage renovations consider a finish floor to attain the evenness tolerances.

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**Drive unit under floor**

With more than 1 parking platform per control, please consult Wöhr.

This version is fitted in new buildings or when the installation of the parking platform drives does not depend on columns. In order to make sure that no water can penetrate through the empty pipe DN 40 into the motor, the empty pipe with the transmission wire must be fitted and embedded in the columns and walls at least up to 150 cm above the ground. The motor box must be effused or set in to concrete after the installation by the client.
**Function**

Occupied parking platforms are shifted by means of hold-to-run device until parking places behind or in front of/opposite of them can be crossed.

**Help for planning**

<table>
<thead>
<tr>
<th>Dimensions in brackets for comfort type 503-2,3</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP</td>
</tr>
<tr>
<td>TP</td>
</tr>
<tr>
<td>TP</td>
</tr>
<tr>
<td>TP</td>
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<tr>
<td>EP</td>
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<td>TP</td>
</tr>
<tr>
<td>TP</td>
</tr>
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</tr>
</tbody>
</table>

1. If parking places are opposite each other, the axials must coincide. If it is not possible, platform extensions must be provided.
2. Parking platforms with incorporated drives (current supply with cable), which have a longer shifting way than the platform length are available for special cases when standard drive units are not possible.
3. For Single Platforms (EP) we recommend a minimum distance of 650 cm to the wall at the end of the driving lane, starting from the turning point of the platform drive. Otherwise the conventional parking places behind cannot be used comfortably.
4. The length of a unit group of parking platforms must not exceed 40 m. Several units can be added in very long driving lanes.

**Product liability**

Wöhr does not take any liability for damages due to squeezing danger because the evenness tolerances are not fulfilled. The distance between the lower edge of the platform and the finished floor may not exceed 2 cm.

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**Dimensions**

All dimensions are in cm.

**Noise**

Ball bearings of the rollers provide a low sound level.

**Conformity test**

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14101.

**Control**

The control of the parking platforms is carried out by hold-to-run device with a left/right buttons. The current supply must be provided by the client with 5 x 2,5 mm², 230/400 V, 50 Hz to the main switch and to the control box of the related group of parking platforms.

**Electrical installation**

The electrical components supplied by the manufacturer must be connected in accordance with the appropriate wiring diagram and local regulations. German VDE electrical requirements must be adhered to, in order to validate the TÜV tested circuit.

**Fire safety**

Each and every fire safety requirement and all possible mandatory item(s) and equipment(s) (fire extinguishing systems and fire alarm systems, etc.) are to be provided by the customer.

**Temperature**

The installation is designed to operate between +5° and +40°C. Atmospheric Humidity: 50% at +40°C. If the local circumstances differ from the above please contact Wöhr.

**Maintenance**

Regular maintenance by qualified personnel can be provided by means of an Annual Service Contract.

**Protection against corrosion**

Independent of a maintenance work has to be carried out acc. to Wöhr Cleaning and Maintenance Instruction regularly.

**Illumination**

Illumination has to be considered acc. to local requirements by client.

**Temperature**

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