

Data Sheet Wöhr Parklift 443 2.0T

With the nature of maximising the car parking capacity, this system is very popular for rehab developments.

Single units - 3 Cars

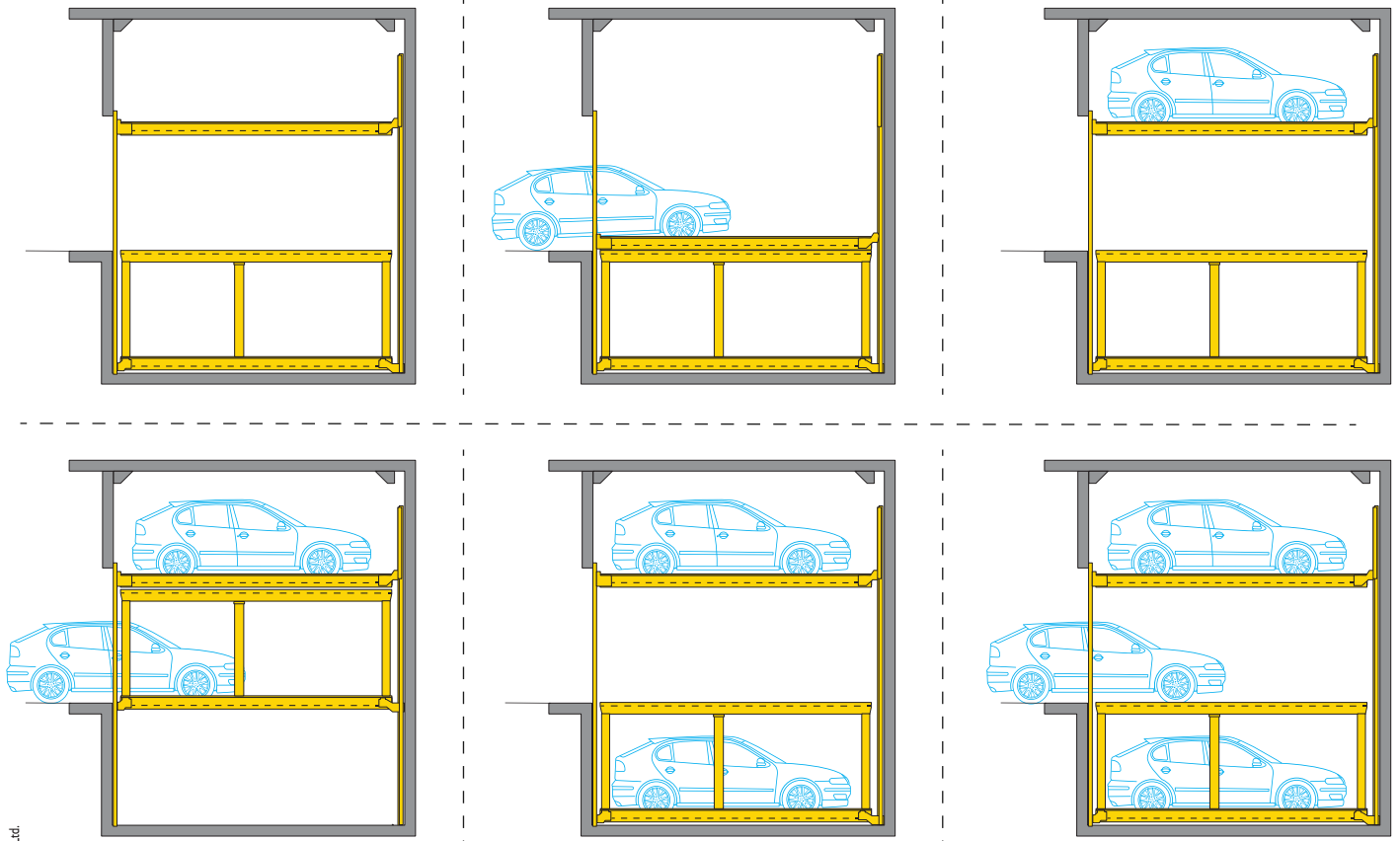
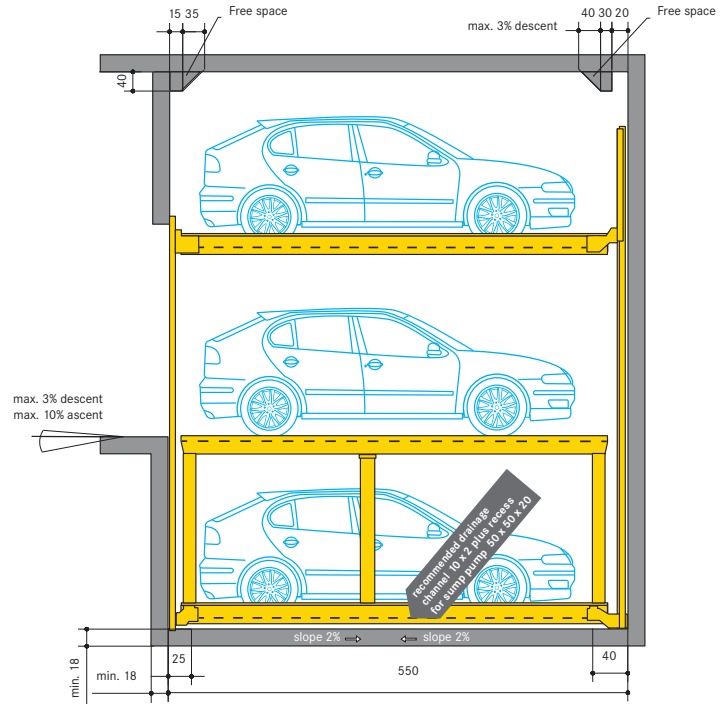
Platform load options:

- Max load 2000 kg, load per wheel 500 kg
- Platforms are in horizontal position to drive on

Grid arrangements:

- Single grid for 3 vehicles

Dimensions in cm



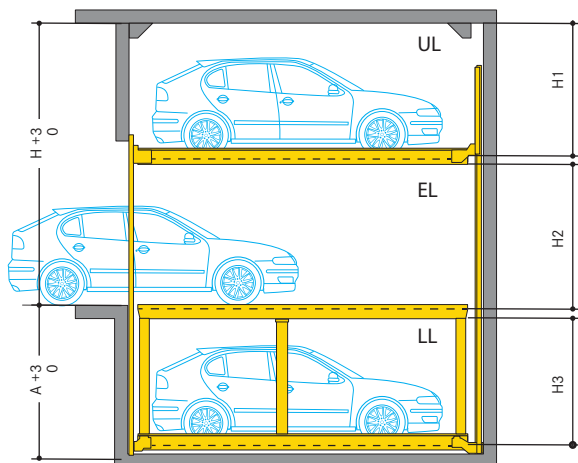
Notes

1. Car length max. 500 cm with an installation length of 550 cm, car of width 190 cm. The maximum vehicle width is reduced accordingly.
2. To increase parking capacity by 50%, a parking system for independent parking of 2 vehicles becomes a dependent parking solution in the short term while the 3rd vehicle is occupied.
3. It is not possible to have channels or undercuts /concrete haunches along the pit floor-to-wall joints. In the event that channels or undercuts are necessary. The system width needs to be reduced or the pit needs to be wider.
4. The manufacturer reserves the right to modify or alter the above specifications.

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WE COMPACT PARKING SPACE



Standard type

Type	Height	Pit depth	Vehicle height			Platform distance		
			UL	EL	LL	H1	H2	H3
443-200	375	200	175	175	175	180	180	180

Comfort type

Type	Height	Pit depth	Vehicle height			Platform distance		
			UL	EL	LL	H1	H2	H3
443-230	435	230	205	205	205	180	210	210

UL - upper level / EL - entrance level / LL - lower level

Lower vehicle heights such as 175cm with a total height of H - 405 cm can also be parked on the upper parking space.

Width dimensions

Platform widths:

- 250 cm - for 190 cm vehicle width (without outside mirror)
- 260-270 cm - for vehicles wider than 190 cm (without outside mirror)
- 270 cm - for units at the end of the driving aisle

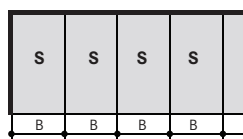
For comfortable parking, entry and exit conditions platform width of 270 cm is recommended. Reduced platform width means reduced parking comfort depending on the vehicle width, vehicle type, individual driving style, access situation of the garage.

With a 90° arrangement of the parking places, we recommend widening the driving aisle or a wall recess (see below).

Single Unit
(3 cars)



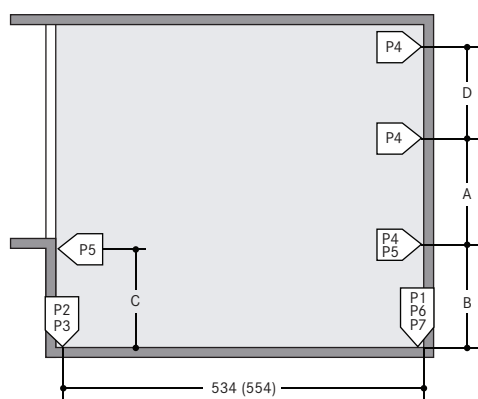
Row arrangement



The driving aisle width must comply with local regulations

Space Req. B	Clear platform width
260	230
270	240
280	250
290	260
300	270

Static calculations and construction works requirement



Standard Type	A	B	C	D
Parklift 443-200	182	188	177	158

Comfort Type	A	B	C	D
Parklift 443-230	197	223	212	173

443 (2000 kg)	
P1	+80.0 KN
P2	+70.0 KN
P3	+35.0 KN
P4	±5.0 KN
P5	±2.5 KN
P6	±30.0 KN
P7	±15.0 KN

All static loadings include the weight of the car

Bearing loads are transmitted by wall plates with min. 30 cm² surface and to the floor by base plates with min. 350 cm² surface.

Wall and base plates will be fixed by heavy duty anchor bolts to a drilling depth of 10-12cm. When fixing to the waterproof concrete floors chemical anchors are employed (to be advised by Wöhr). Base plate thickness min. 18 cm. Rear wall and base plate must be formed of concrete and must have a flat surface without protrusions.

Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25.

The specified lengths to the support points are mean values, Please contact Wöhr Agent for exact positions for any variations on the standard units.

Notes

In case rear support wall is not available the customer must provide steel structure to support the system.

■ Hydraulic power packs

For the accommodation of the hydraulic power packs an additional space is required which will be determined during the verifications of the drawings, e.g. in a wall recess.

Dimensions:
length - 100cm
height - 140cm
width - 35cm

■ Electrical data

Main electrical supply 230/400V, 50 Hz, 3 phase. Power consumption 3.0 kW. Fuse or automatic circuit breaker 3 x16A slow blow acc. to DIN VDE 0100 p. 430 and main supply line 5 x 2,5 mm² to the switch cabinet, provided by client.

In compliance with the DIN EN 60204 - standard provisions, all systems must be connected directly on site with an earthed equipotential bonding. The lead-out connection must be at a 10 m distance.

■ **Switch cabinet**

1. Main switch is installed well accessible at driveway in a height of 160 cm to 190 cm.
2. The switch cabinet must be installed visibly and nearby the system. Area for installation has to be provided by the client. The size of the switch cabinet is 80 x 110 x 21 cm.
3. The wall opening of 15 cm diameter is required between the switch cabinet and the system itself. Please contact Wöhr Agent to clarify.
4. The control 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 (if necessary, the switch cabinet has to be provided with a heating).
5. If the system is installed outside the switch cabinet then it needs to be inside a sun/water/wind proof box. In front of the switch cabinet an area of 100 cm is required to work.

■ Hotel garage

If used by hotel guests, the installation requires special planning and construction. Please ask for details.

■ Noise protection

Basis is the German DIN 4109 'Noise protection in buildings'.
With the following conditions required 30 dB (A) in rooms can be provided:

At differing constructional conditions additional sound absorbing measures are necessary.
The best results are reached by separated sole plates from the construction.

Increased noise protection: If increased noise protection must be provided planning and has to be confirmed on a project basis by Wöhr (further building measures are required).

- noise protection package from our accessory
- insulation figure of the construction of min. $R'w - 57dB$
- walls which are bordering the parking systems must be done as single wall and deflection resistant with min. $m^2 - 300 \text{ kg/m}^2$
- solid ceiling above the parking systems with min $m^2 - 400 \text{ kg/m}^2$

■ Temperature

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

■ Illumination

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

Free spaces

Special drawings for free spaces to accommodate air ducts or other pipes can be requested to the Wöhr Agent!

■ Railings

If walkways are arranged directly to the side or behind the systems, railings have to be provided by client acc. to local requirements, height min. 200 cm - this is applicable during the construction phase too.

■ Drainage

We recommend providing gutter in the pit centre and connecting the gutter either to a gully or a drainage pit 50 x 50 x 20 cm. If the pump sump is not accessible for manual drainage, the client must provide pump on site to empty the pump sump. Lateral slope only within the gutter.

To prevent hazards for the ground water, we recommend giving the pit floor an oil-resistant coating as a means of protecting the environment.

If this is to be connected to the sewage system, it is advisable to provide oil and/or petrol separators.

■ Maintenance

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

- **Protection against corrosion**

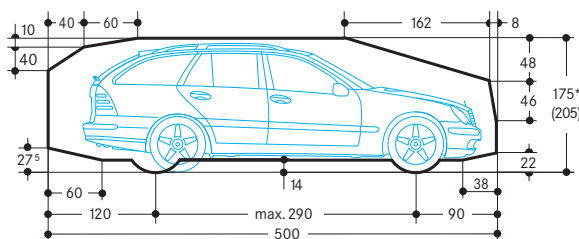
Independent of a maintenance, working has to be carried out acc. to Wöhr Cleaning and Maintenance Instruction regularly.
Clean up galvanized parts and platforms of dirt and road salt as well as other pollution (corrosion danger)!

Pit must always be ventilated and deaerate well.

■ Dimensions

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in cm.

■ Clearance profile (standard car)



* The total car height includes roof rail and antenna fixture must not exceed the mentioned max. height dimension.

Notes

We recommend providing wiring conduits leading to operating panels, particularly in above-ground garages.

The wiring conduits should be placed 120 cm above entrance level in a support in the middle of the area.