

Data Sheet Wöhr Parklift 413

Single unit = 3 cars
Double unit = 6 cars

Suitable for condominium and office buildings.
For permanent use only!*

* In case of short time user
– only possible on upper platform
and only if technically adjusted,
ask WÖHR!
Or with attendant or valet parking all
levels are possible for short time user.

All platforms are in a horizontal
position to drive on.

The execution of the installation
can only be done with a roofing
provided from the customer
side or within a building.

Load per platform max. 2000 kg
(load per wheel max. 500 kg)

X = only applicable if
garage doors are
to be fitted

Roller doors:

X = 15

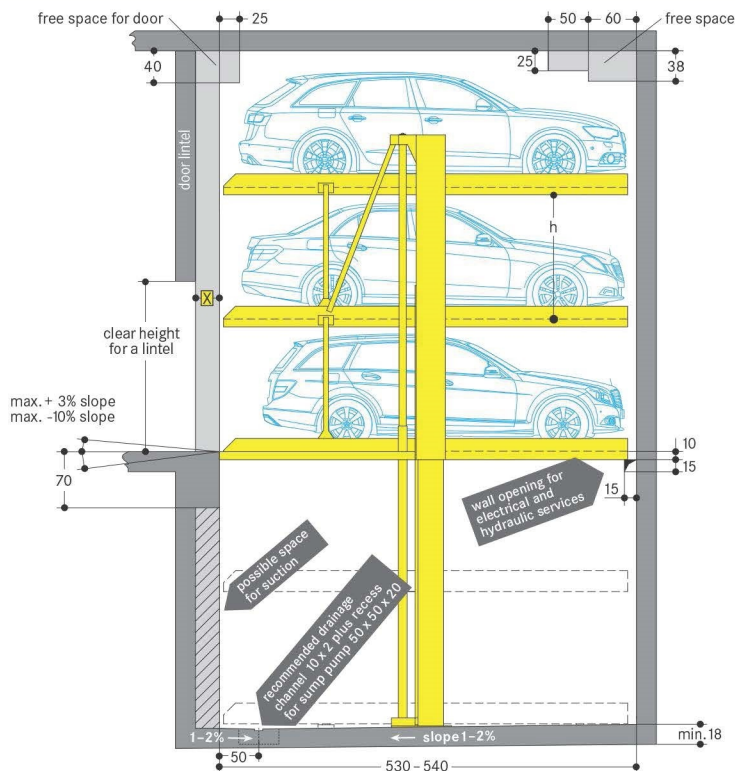
Sectional doors:

X = 25 (single doors)

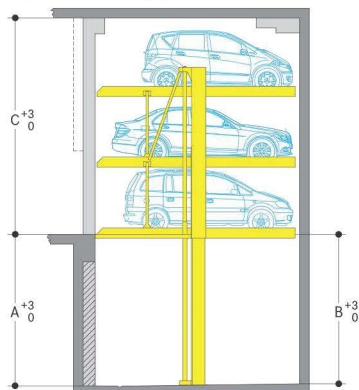
X = 30 (double doors)

X = to be clarified with
door supplier

Dimensions in cm



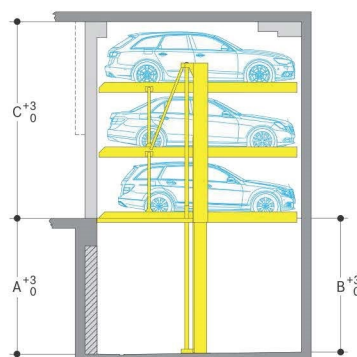
Standard type



	A	B	C	h	car height*
Parklift 413-385/380:	385	380	555	180	175
Parklift 413-375/370:	375	370	540	175	170

* upper level, entrance level and lower level for cars and station wagons

Compact type

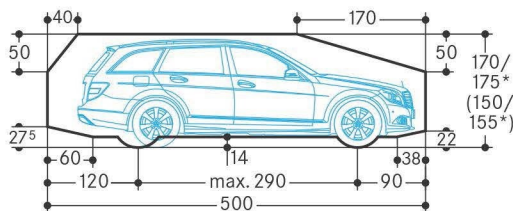


Please attend to
restricted car- and
platform distance
height!

	A	B	C	h	car height*
Parklift 413-345/340:	345	340	495	160	155
Parklift 413-335/330:	335	330	480	155	150

* upper level, entrance level and lower level for cars and station wagons

Clearance profile (car/station wagon)



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

Notes

1. Clear platform width of 250 cm for car widths of 190 cm (see width dimensions stated on page 2). For large touring sedans we recommend a clear platform width of at least 260-270 cm for single and 500 cm for double systems.
2. Due to recent increases in car length dimensions, and potential future developments, a pit length of 540 cm is advisable. This offers bigger safety distances also for future cars.
3. At the edge of the pit a 10cm wide, yellow-black marking according to ISO 3864 has to be provided by the purchaser (see "statics and construction requirements" on page 3).
4. It is not possible to have channels or undercuts and/or 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.
5. 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.

■ Width dimensions · Underground garages

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

The access to the Parklift is possible with max. 3% declination and max. 10% inclination.

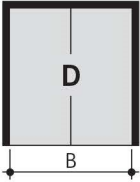
■ Wall to wall

Single unit (3 cars)



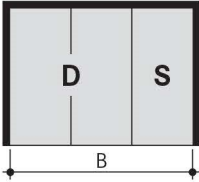
Space required B	gives clear platform width
270	230
280	240
290	250
300	260
310	270

Double unit (6 cars)



Space required B	gives clear platform width
500	460
520	480
540	500

Combined unit (9 cars)



Space required B	gives clear platform width
765	460+230
795	480+240
825	500+250
835	500+260
845	500+270

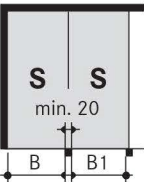
Wall openings required between partitions for electrical and hydraulic conduits must be provided where applicable. Wall openings may not be closed after installation.

The driving aisle width to be compliant with country regulations locally in force.

Other width combinations as well as smaller widths are possible.

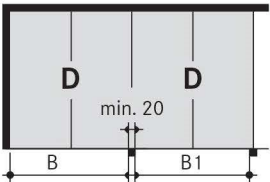
■ Pillars outside pit

Single unit (3 cars)



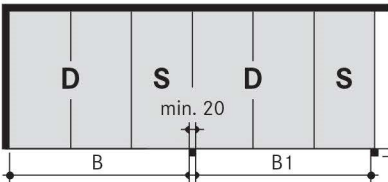
Space required wall- pillar B	pillar- pillar B1	gives clear platform width
260	245	230
270	255	240
280	265	250
290	275	260
300	285	270

Double unit (6 cars)



Space required wall- pillar B	pillar- pillar B1	gives clear platform width
490	475	460
510	495	480
530	515	500

Combined unit (9 cars)



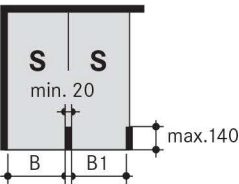
Space required wall- pillar B	pillar- pillar B1	gives clear platform width
750	740	460+230
780	770	480+240
810	800	500+250
820	810	500+260
830	820	500+270

The driving aisle width to be compliant with country regulations locally in force.

Other width combinations as well as smaller widths are possible.

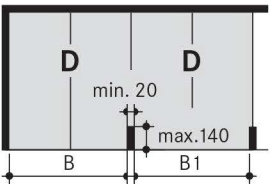
■ Pillars inside pit

Single unit (3 cars)



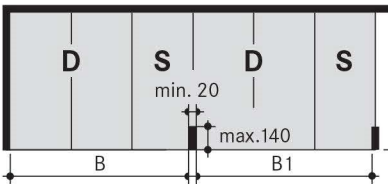
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The driving aisle width to be compliant with country regulations locally in force.

Other width combinations as well as smaller widths are possible.

■ Important notes

If maximum platform widths are not installed, difficulties might arise when entering or exiting the cars on the parking units. This depends on the car type, the access and the individual driving behaviour.

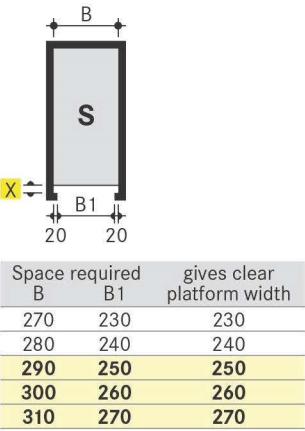
For parking slots at edges or between walls, we recommend going for our maximum platform widths.
For cars wider than 190 cm, platform width of 270/500 cm is required to enter and exit the car at drivers-side.

■ Width dimensions · Garages with doors

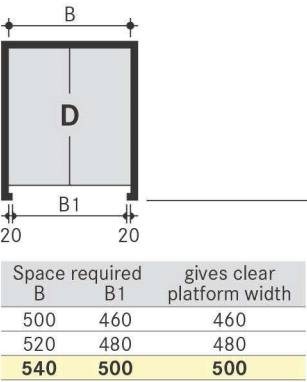
All dimensions shown are minimum. Construction tolerances must be taken into consideration.
All dimensions in cm.

The access to the Parklift is possible with max. 3% declination and max. 10% inclination.

■ Single garages (3 cars)



Double garages (6 v)

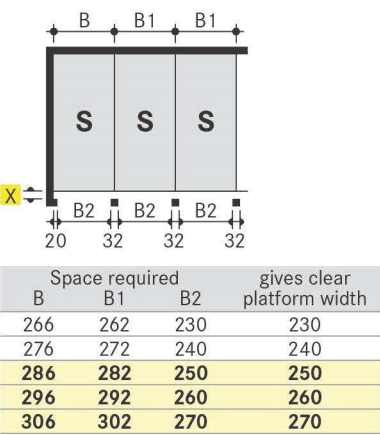


x = for doors. See page 1

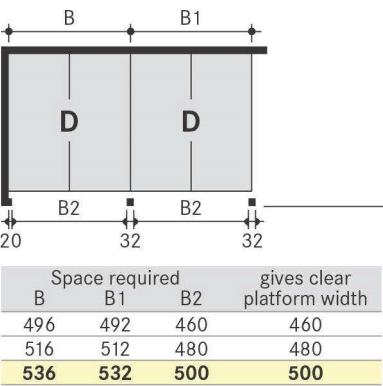
Wall openings required between partitions for electrical and hydraulic conduits must be provided where applicable. Wall openings may not be closed after installation.

The driving aisle width to be compliant with country regulations locally in force.

■ Serial garages with single doors (3 cars)

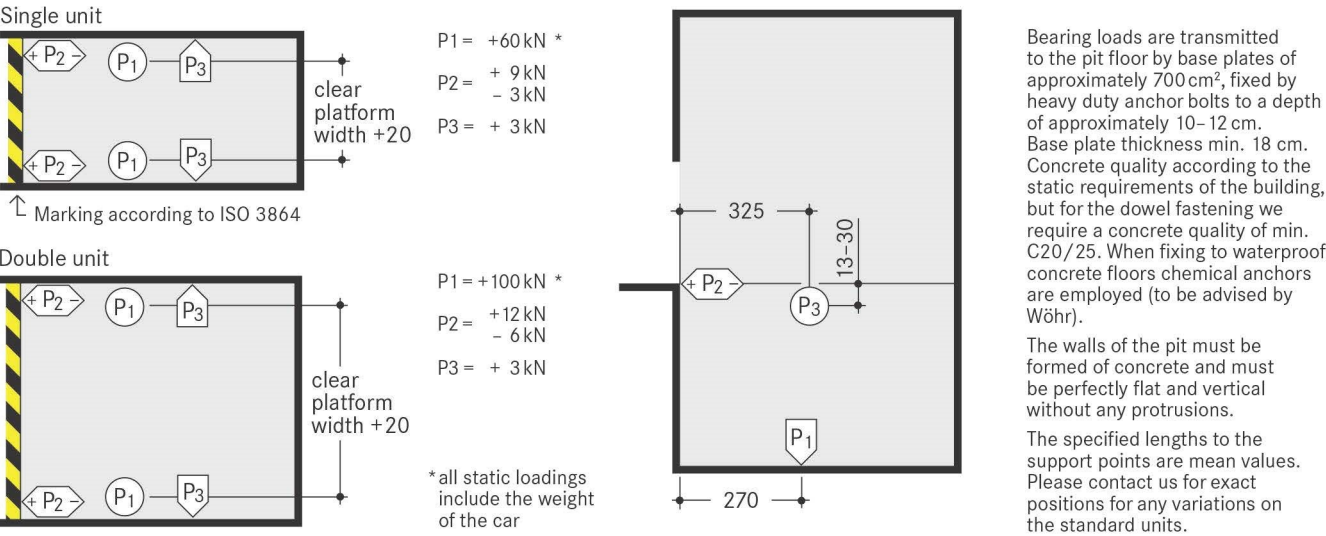


Serial garages with double doors (6 cars)



The driving aisle width to be compliant with country regulations locally in force.

■ Statics and construction requirements



■ Hydraulic power pack

The location of the hydraulic power pack is determined according to your plan – space requirements are as follows:

Dimensions in cm	1 single unit or 1 double unit	2–5 single units or 2–3 double units
Length:	100	200
Height:	140	140
Depth:	30	30

Electrical datas

Item	Performance	Quantity	Designation	Position	Frequency
1	by customer	1 unit	electric meter	in the feed cable	
2	by customer	1 unit	fuse or automatic circuit breaker 3 x 25 A slow blow acc. to DIN VDE 0100 p. 430	in the feed cable	1 per power pack
3	by customer	as locally required	acc. to local power supply regulations 3 Ph + N + PE *	feed cable to main switch	1 per power pack
4	by customer	each 10 m	equipotential bonding safety lead-out connection	corner pit floor/ rear wall	
5	by customer	1 unit	equipotential bonding safety compliant to the DIN EN 60204 standard	from the lead-out connection to the system	1 per Parklift
6	by customer	1 unit	marked main switch, lockable to prevent unauthorized switching on	above operating device	1 per power pack
7	by customer	10 m	PVC control cable with marked strands and protective conductor 5 x 2,5 ²	from main switch to hydraulic power pack	1 per power pack

Items 8–14 are included in Wöhr's scope of delivery unless otherwise specified in the offer / order.

* DIN VDE 0100 part 410 + 430 (not under permanent load) 3PH+N+PE (three-phase current) Note: Where a door is used to close the garage, the manufacturer of the door must be consulted before the electric cable is laid.

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.

The electrical supply to the power pack(s) must be provided prior to or during installation to

enable our fitters to complete their work satisfactorily and to check the correct functioning of the units.

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!

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:

- noise protection package from our accessory
- insulation figure of the construction of min. $R_w = 57$ dB
- walls which are bordering the parking systems must be done as single wall and deflection resistant with min. $m' = 300$ kg/m²
- solid ceiling above the parking systems with min. $m' = 400$ kg/m²

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 has to be confirmed on a project basis by Wöhr (further building measures are required).

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.

Drainage

We recommend the provision of a drainage channel at the front of the pit which can either incorporate a pump sump 50 x 50 x 20 cm, or a connection into the storm water sewerage system via a petrol/oil interceptor. If the pump sump is not

accessible for manual drainage, the client must provide a pump on site to empty the pump sump. To prevent any possibility of contamination of the ground-water we recommend that the pit floor is coated with an oil proof paint.

Conformity test

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14010.

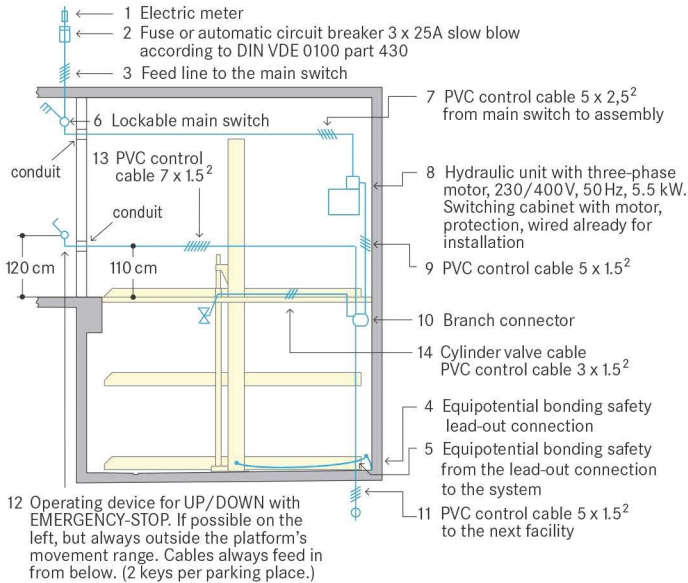
Illumination

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

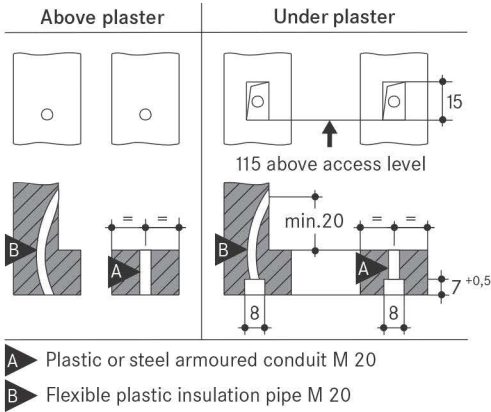
Free spaces

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

Installation diagram



Recesses and conduits for rotary switches with rolling and sectional gates



Railings

The units need to be provided acc. EN ISO 13857 with safety railings if the gap between unit and wall exceeds 20 cm. 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.

Parking place width

We recommend a clear platform width of at least 250 cm and/or of at least 500 cm for double systems.

Maintenance

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

Protection against corrosion

Independent of a maintenance workings 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 be always ventilated and deaired well.

Dimensions

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

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.