Data Sheet Wöhr Parklift 440-2,6

Single unit = 2 cars **Suitable for condominium and office buildings.**
Double unit = 4 cars **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 both levels are possible for short time user.

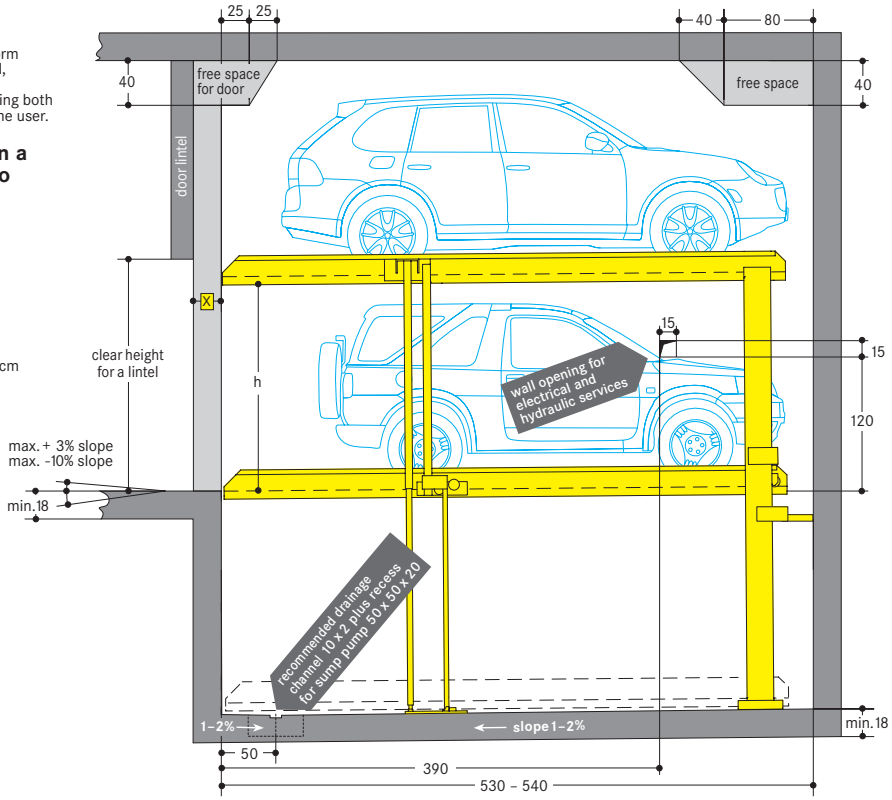
Both platforms are in a horizontal position to drive in.

Load per platform max. 2600 kg (load per wheel max. 650 kg)

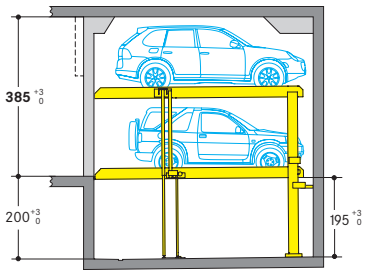
X = only applicable if garage doors are to be fitted. For roller doors x = 10 / 15 cm

X = to be clarified with door supplier

Dimensions in cm



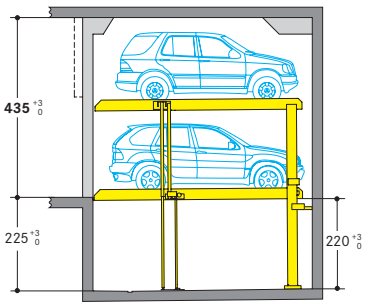
Comfort type 440-200/195 · 2600 kg



	car height	distance (h)
UL	cars/vans/SUVs up to 180 cm	
LL	cars/vans/SUVs up to 180 cm	185

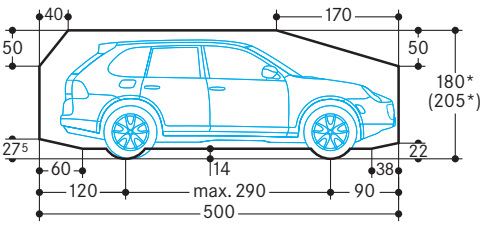
UL = upper level, LL = lower level

Premium type 440-225/220 · 2600 kg



	car height	distance (h)
UL	cars/vans/SUVs up to 205 cm	
LL	cars/vans/SUVs up to 205 cm	210

Clearance profile



With a minimum garage length of 540 cm, larger executive cars of up to 510 cm length can be parked.

* 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 520–540 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 also offers a greater safety distance for future car sizes.
3. At the edge of the pit a 10 cm 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.

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We compact parking space

The solution for Sport Utility Vehicles (SUV), Minibuses, Jeeps and other heavy cars up to 2,6 to

Width dimensions · Underground garages

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

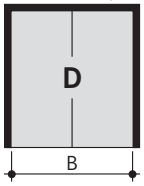
The access to the Parklift is possible with max. 3% declination and max. 10% inclination.

Wall to wall

Single unit (2 cars)

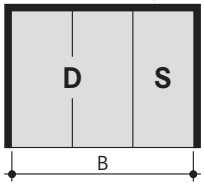
Space required B	gives clear platform width
280	**250**
290	**260**
300	**270**

Double unit (4 cars)



Space required B	gives clear platform width
530	**500**
550	**520**
570	**540**

Combinated unit (6 cars)



Space required B	gives clear platform width
810	**500+250**
840	**520+260**
870	**540+270**

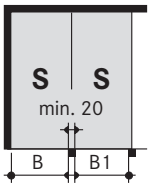
Other width combinations as well as smaller widths are possible.

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.

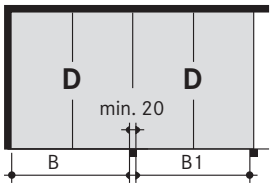
Pillars outside pit

Single unit (2 cars)



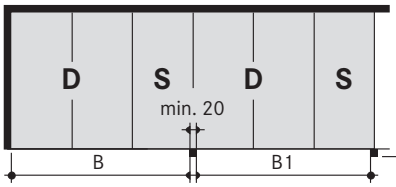
Space required wall-pillar B	pillar-pillar B1	gives clear platform width
270	**260**	**250**
280	**270**	**260**
290	**280**	**270**

Double unit (4 cars)



Space required wall-pillar B	pillar-pillar B1	gives clear platform width
520	**510**	**500**
540	**530**	**520**
560	**550**	**540**

Combinated unit (6 cars)



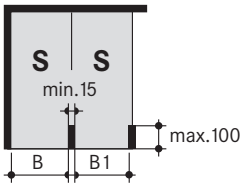
Space required wall-pillar B	pillar-pillar B1	gives clear platform width
800	**790**	**500+250**
830	**820**	**520+260**
860	**850**	**540+270**

Other width combinations as well as smaller widths are possible.

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

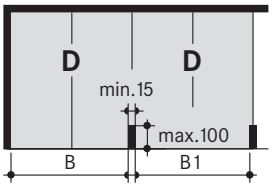
Pillars inside pit

Single unit (2 cars)



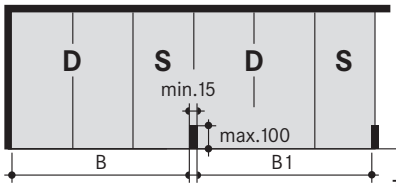
Space required wall-pillar B	pillar-pillar B1	gives clear platform width
275	**265**	**250**
285	**275**	**260**
295	**285**	**270**

Double unit (4 cars)



Space required wall-pillar B	pillar-pillar B1	gives clear platform width
525	**515**	**500**
545	**535**	**520**
565	**555**	**540**

Combinated unit (6 cars)



Space required wall-pillar B	pillar-pillar B1	gives clear platform width
805	**795**	**500+250**
835	**825**	**520+260**
865	**855**	**540+270**

Other width combinations as well as smaller widths are possible.

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

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.

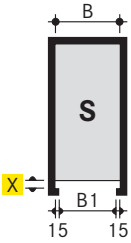
For parking slots at edges or between walls, we recommend going for our maximum platform widths.
For cars wider than 190 cm, platform width of 270/540 cm is required to enter and exit the car at drivers-side.

Width dimensions · Garages with doors

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

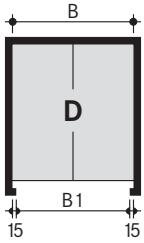
The access to the Parklift is possible with max. 3% declination and max. 10% inclination.

Single garages (2 cars)



Space required B	B1	gives clear platform width
280	**250**	**250**
290	**260**	**260**
300	**270**	**270**

Double garages (4 cars)



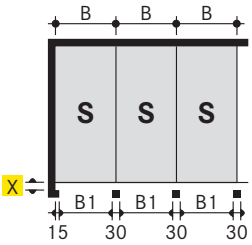
Space required B	B1	gives clear platform width
530	**500**	**500**
550	**520**	**520**
570	**540**	**540**

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.

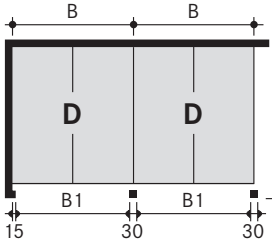
The driving aisle width to be compliant with country regulations locally in force.

Serial garages with single doors (2 cars)



Space required B	B1	gives clear platform width
280	**250**	**250**
290	**260**	**260**
300	**270**	**270**

Serial garages with double doors (4 cars)

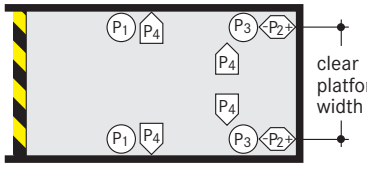


Space required B	B1	gives clear platform width
530	**500**	**500**
550	**520**	**520**
570	**540**	**540**

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

Statics and construction requirements

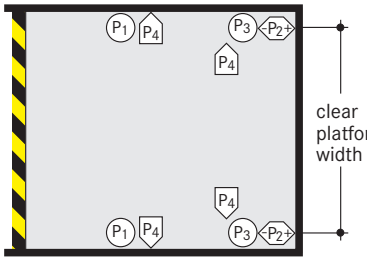
Single unit



Marking according to ISO 3864

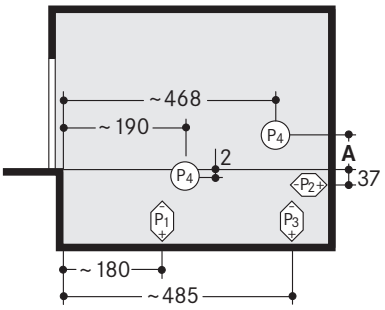
P1 = +50 kN * / – 10 kN
P2 = + 3 kN / – 3 kN
P3 = +18 kN / – 5 kN
P4 = + 3 kN

Double unit



P1 = +90 kN / – 9 kN
P2 = + 5 kN / – 5 kN
P3 = +32 kN / – 3 kN
P4 = + 3 kN

*all static loadings include the weight of the car



	A
Parklift 440-200/195	42
Parklift 440-225/220	45

Bearing loads are transmitted to the pit floor by base plates of approximately 300 cm², fixed by heavy duty anchor bolts to a depth of approximately 10–12 cm. Base plate thickness min. 18 cm.

Concrete quality according to the static building requirements, however for the dowel fixing concrete quality of min. C20/25 is required.

When fixing to waterproof concrete floors, chemical anchor bolts are supplied (to be confirmed by WÖHR).

The front wall of the pits must be formed of concrete and must be perfectly flat and vertical without any protrusions.

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

Hydraulic power pack

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

Dimensions in cm	1–5 Single units or 1–3 Double units
Length:	200
Height:	140
Depth:	35

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 25A 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* 230/400 V, 50 Hz	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

Items 6 – 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 power supply cabling for the main switch must be provided onsite for the date set for the start of the assembly procedures at the very latest. Lay-in and hook-up to the lockable main switch must strictly be performed onsite during the assembly procedures.
Our assembly technicians working onsite can also be available to work together with the Electricians in order to verify the system's functional capabilities.

Should a verification of the system's functional capabilities be requested at a later date, said verification can be performed by WÖHR against compensation.

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 groundwater we recommend that the pit floor is coated with an oil proof paint.

Conformity inspection (TÜV)

The parking systems comply with the EC Machinery Directive and with the DIN EN 14010. An additional, freely optional conformity inspection is furthermore performed by the TÜV SÜD.

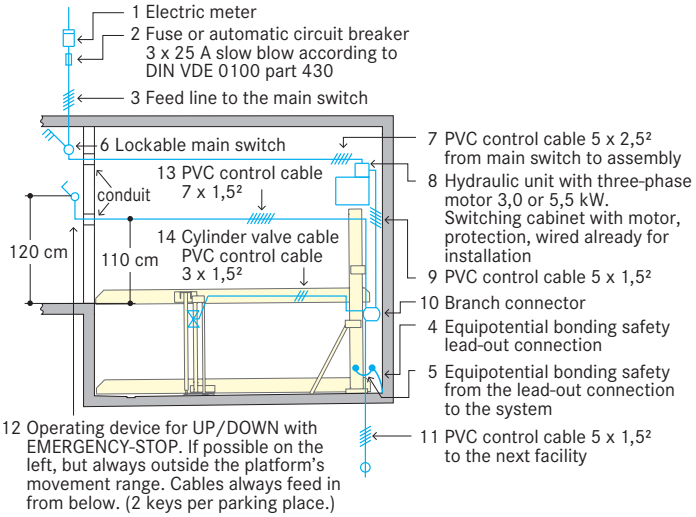
Illumination

Illumination has to be considered acc. to local requirements by the customer.

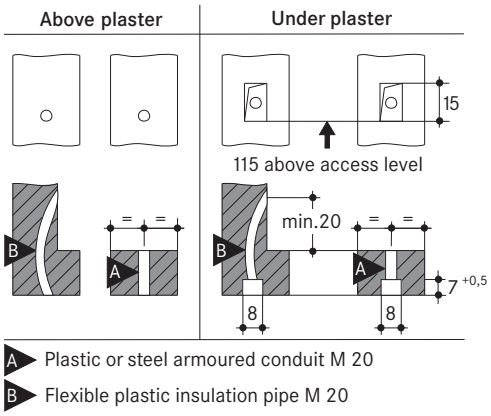
Free spaces

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 20cm. If walkways are arranged directly to the side or behind the systems, railings have to be provided by the customer acc. to local requirements, height min. 200 cm – this is applicable during the construction phase too.

Maintenance

WÖHR and its foreign partners have an assembly and customer network. Annual maintenance is performed at conclusion of a maintenance 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 always be ventilated and dearated well.

Parking place width

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

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.