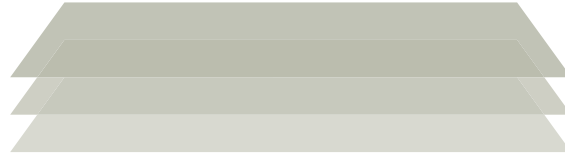
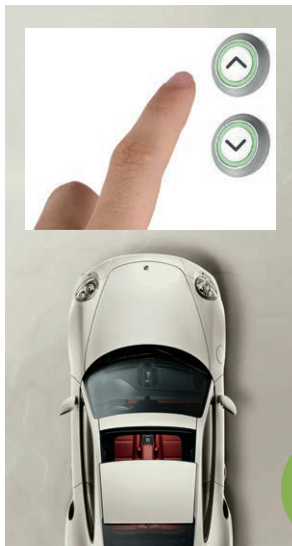
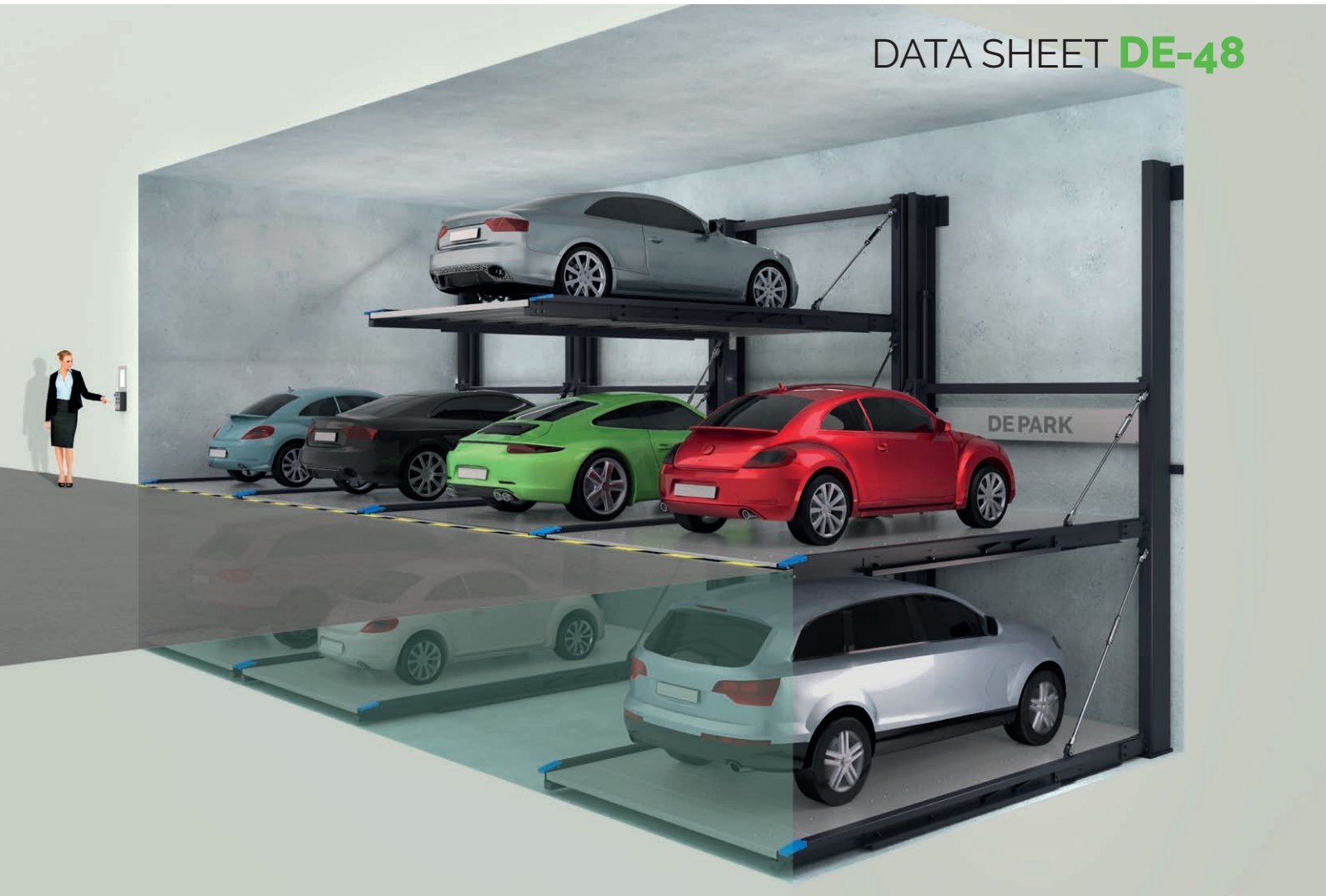


DE PARK

Parking. Surprisingly simple.



DATA SHEET **DE-48**



DE-48 (with pit)

THE COMFORT SOLUTION FOR GARAGES
TO DOUBLE THE NUMBER OF PARKING SPACES

Independent Car Parking System on 2 levels
with an interactive control

A

Analogue Parking Technologies

Made in Germany

SINGLE UNIT
for 2 vehicles
in a
modular arrangement.



- Suitable for **residential buildings**, **office buildings** and **business premises**, as well as for **hotels**.
- For **permanent and trained users** only.
- **Indoor-Installation**.

VEHICLE WEIGHT (max.)



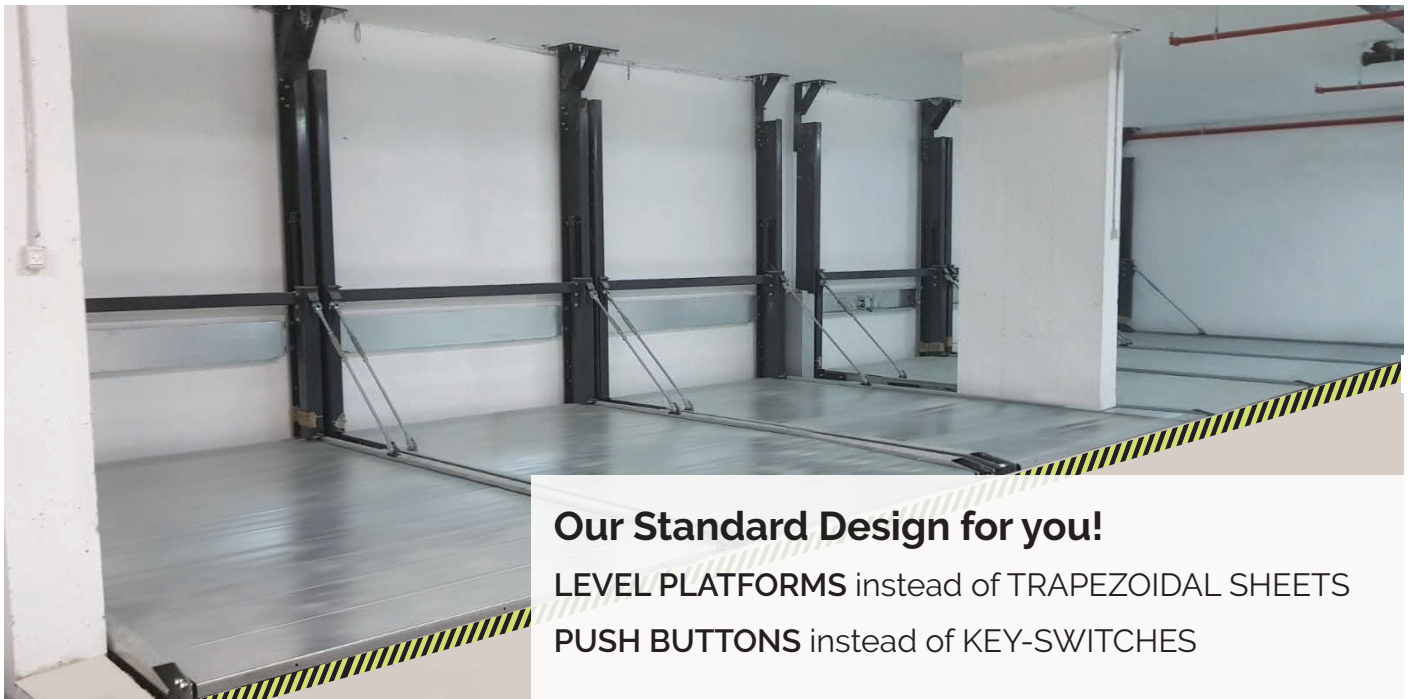
Standard

- 2000 kg, 500 kg Radlast

Optional

- 2600 kg, 650 kg Radlast

DE-48 (no pillars in the driving area) is our independent Car Parking System with **horizontal accessible platforms** and is installed on **two levels**, with **pit**.



Our Standard Design for you!

LEVEL PLATFORMS instead of **TRAPEZOIDAL SHEETS**
PUSH BUTTONS instead of **KEY-SWITCHES**



EASY TO PLAN with space-saving construction.



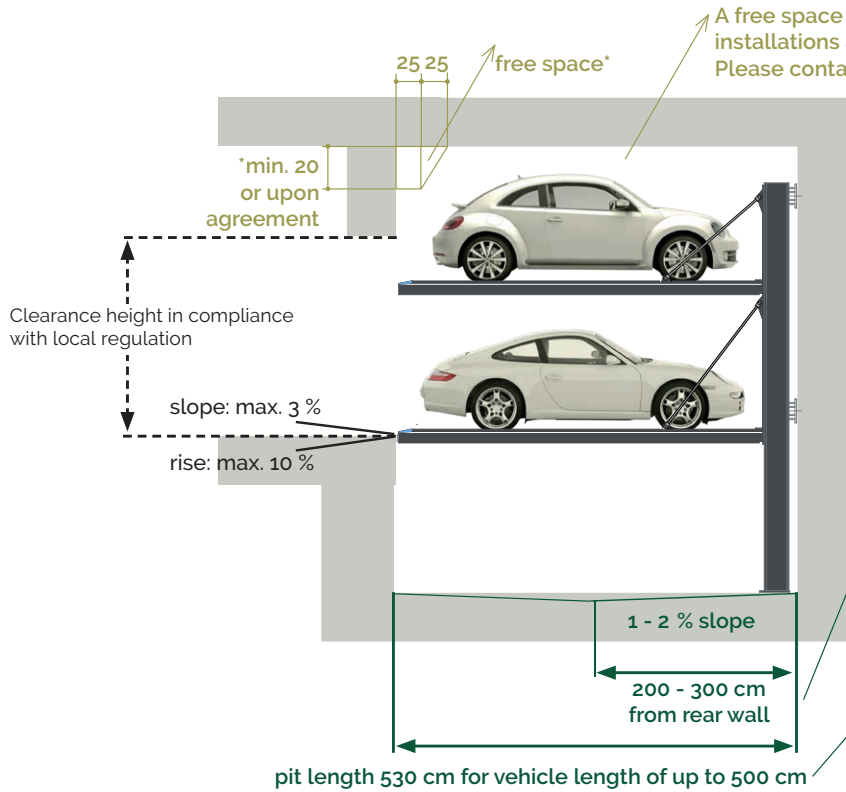
EASY TO INSTALL with minimized parts construction.



EASY TO USE due to barrier free construction.

DIMENSIONS in cm

LENGTH DIMENSIONS



A free space below the ceiling is necessary if on-site installations are required, such as lines, pipes or sprinklers. Please contact us, we will be glad to give you advise.

Drainage

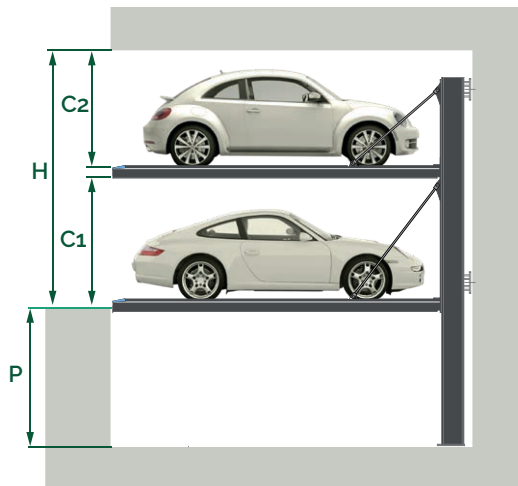
Please provide 1 to 2 % slope in the pit floor. Distance for drainage in the area of 200 bis 300 cm from the back wall.

We recommend to install a drainage channel of 10 x 2 cm with drainage pit of 50 x 50 x 20 cm.

Pit length

Pit length of min. 530 cm for vehicle length of up to 500 cm is required. For larger vehicles an installation length of min. 540 cm is recommended. This enables also larger safety distances, if newer, longer vehicles are purchased.

HEIGHT DIMENSIONS



P = pit depth (other dimensions available upon request)

H = clear height

C1 = vehicle height bottom*

C2 = vehicle height top*

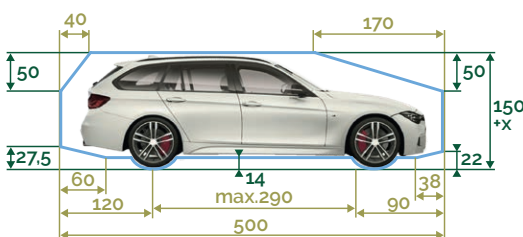
P	C1	H	C2
175 -->	150	315 -->	150
180 -->	155	320 -->	150
185 -->	160	325 -->	150
200 -->	175	340 -->	150
210 -->	185	350 -->	150

*Vehicle height

Higher cars can be parked on the platform above in case of more ceiling height.

The total vehicle height, including the roof rack, antenna, etc., must not exceed the mentioned maximum height values.

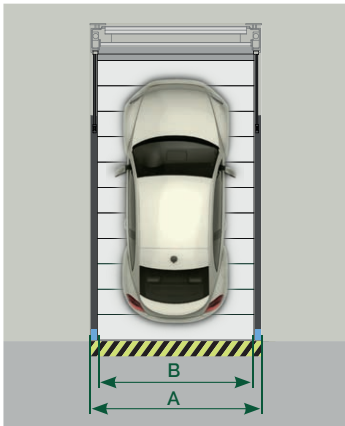
CLEARANCE PROFILE



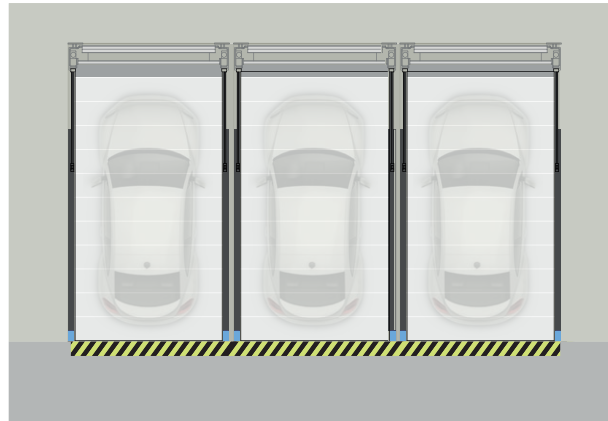
All dimensions are minimum finished dimensions.

Allow for tolerances to VOB Part C (DIN 18330, 18331) and additionally DIN 18202 (+ 30 mm / 0 mm).

WIDTH DIMENSIONS | Garages with partition walls



SINGLE UNIT for 2 vehicles



3 x SINGLE UNIT for 6 vehicles

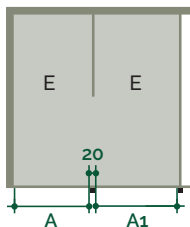
system width A	parking width B
250 cm	230 cm
260 cm	240 cm
270 cm	250 cm
280 cm	260 cm
290 cm	270 cm
300 cm	280 cm

The **single units** can be arranged in a **modular design** according to the available space.

The Car Parking System provides **efficient installation and use of space without interfering pillars** in the driving area. **Easy access for car and driver.**

- Tolerance of dimensions on the construction site = 0 to + 3 cm.
- The width of driving lanes must comply with local regulations.
- We recommend a parking width of at least 250 cm for a comfortable parking.

WIDTH DIMENSIONS | Garages with pillars outside the pit

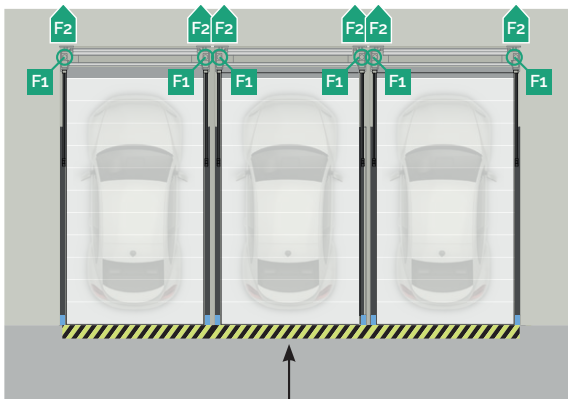
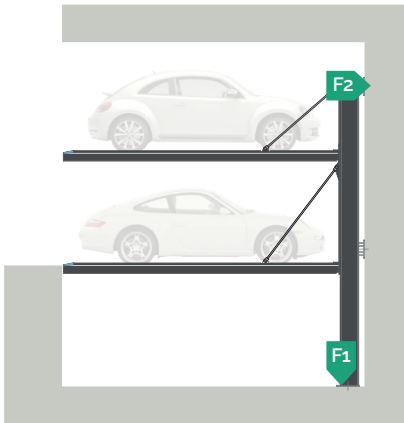


S = single unit for 2 vehicles

wall to pillar A	pillar to pillar A1	= parking width
250 cm	240 cm	230 cm
260 cm	250 cm	240 cm
270 cm	260 cm	250 cm
280 cm	270 cm	260 cm
290 cm	280 cm	270 cm
300 cm	290 cm	280 cm

Exemplary illustration with a pillar of 20 cm.

CONSTRUCTION REQUIREMENTS (see also planning notes)



A yellow-black marking in front of each grid, 10 cm wide, according to ISO 3864 has to be provided (on-site)

FORCES TO THE STRUCTURE

	2000 kg	2600 kg
F1	33 kN	41 kN
F2	33 kN	41 kN

The force F2 can be also absorbed via the ceiling (ceiling fixation available upon request.)

- The forces apply to one pillar.
- If pillars are next to each other the figure double, as both pillars are fixed in one point.

ANCHORING & FLOOR REQUIREMENTS

The systems are directly anchored into the floor and on the rear wall with heavy duty anchor bolts. The depth of the drill hole is approx. 13 cm. The base plate thickness must be minimum 20 cm with a concrete quality according to the static requirements of the building. Minimum requirement of the concrete quality is C20/25. The precise position of the load application points is available on request.

OPENINGS AND WALLS

In case of partition walls, 15 x 15 cm opening for electric cables and hydraulic pipes is necessary. Please do not close off opening after installation. Walls on the entry side and rear are to be made of concrete and completely flat (without protruding parts).

ELECTRIC INSTALLATION

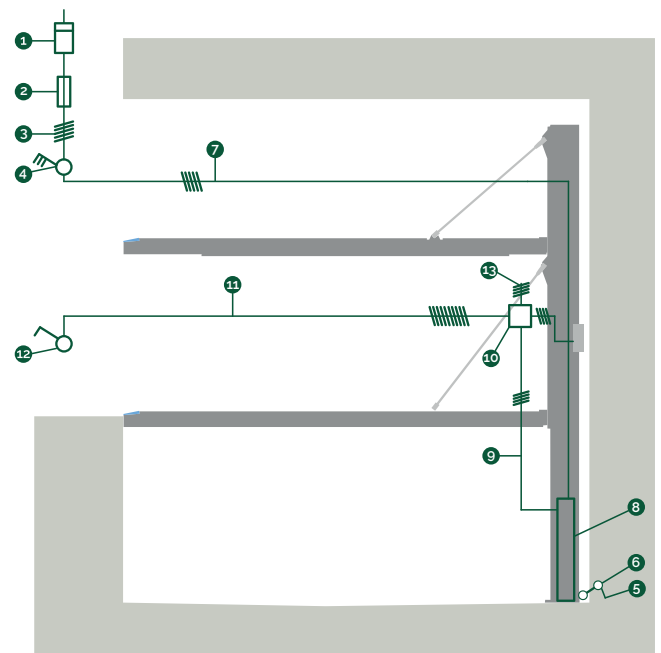
To be provided from customer:

Item	Description
1	Electric meter
2	Fuse or automatic circuit breaker according to DIN VDE 0100, part 430, 16 A slow
3	Supply line to main switch 3 PH + N + PE according to local regs.
4	Main switch lockable
5	Connection for the protective potential equalization according to DIN 60204
6	Protective bonding all 10 m

Item 7 to 13: Components are part of DE-PARK's scope of delivery.

Power supply and system performance

- power supply: 400 Volt, 50 Hz, 3 phaze
- system performance: 3,0 kW



CONTROL AND OPERATION



THE NEW GENERATION: OPERATION VIA PUSH-BUTTONS

More comfort and more safety

by using of an interactive, innovative control unit with two push buttons (lifting and lowering), an emergency stop, a key-switch for system release and illumination to visualize the system status easily.

Choose your parking space easily by pushing the buttons (keep pressed push buttons for lifting and lowering).

Mounting

of the control unit:
Wall mounting (in-wall or surface mounted) or with a control column unit.

PLANNING NOTES



Hydraulic unit

Placement in partitions walls or on the wall (wall recess, niche). Otherwise, an additional space above access level is defined when planning.

Space required (length x height x depth)

- approx. 110 cm x 150 cm x 35 cm



Maintenance, cleaning and prevention

The systems must be serviced and cleaned regularly according to our operating instructions. Please ensure that there is sufficient drainage.



Safety fences • Barriers

Must be installed in the pedestrian area, accessible areas around the system as per DIN EN ISO 13857 (on site, also during the installation).



Ventilation & Lighting

The parking garage must be adequately ventilated and illuminated on site as per regulations.



Temperature

Temperature range from - 5 to + 40° C.
Relative humidity max. 80 %. Please contact DE-PARK in case of different conditions.



Noise emissions

According to the noise insulation regulations for buildings to DIN 4109, a value of 30 dB (A) must be complied with in occupied rooms and spaces.

You receive a sound insulation package with the system for the required 30 dB (A) insulation of the structure is also necessary. Sound reduction index min. $R_w = 57$ dB.



Fire safety

The garage design must fulfil the regional fire safety provisions. The requirements can vary. Therefore the situation must be clarified and information obtained in advance by the customer and then agreed and coordinated.



Declaration of conformity

Car Parking Systems of DE-PARK are conform to EG-Machinery Directive 2006/42/EG and to DIN EN 14010 (safety).