

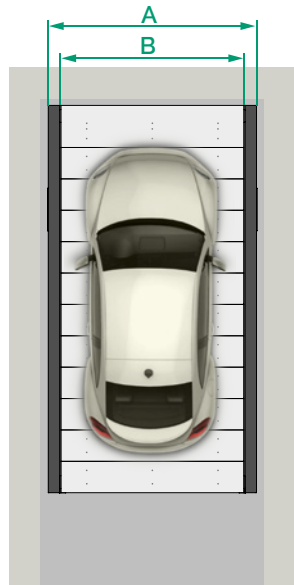
DE-59 is our hidden underground parking system on three levels. The new solution with offset columns offers more comfort when driving into the parking system. Upper platform can be covered with different pavement.

EASY TO PLAN with space saving construction.

EASY TO INSTALL with minimized parts construction.

EASY TO USE due to barrier free construction.

A3



1. WIDTH OF PARKING SPACE / SYSTEM (IN CM)

A = system width ^{1*}
 B = usable parking space width

A	B
265	230
275	240
285	250
295	260
305	270

^{1*} Tolerance of dimensions on the construction site = 0 to + 3 cm

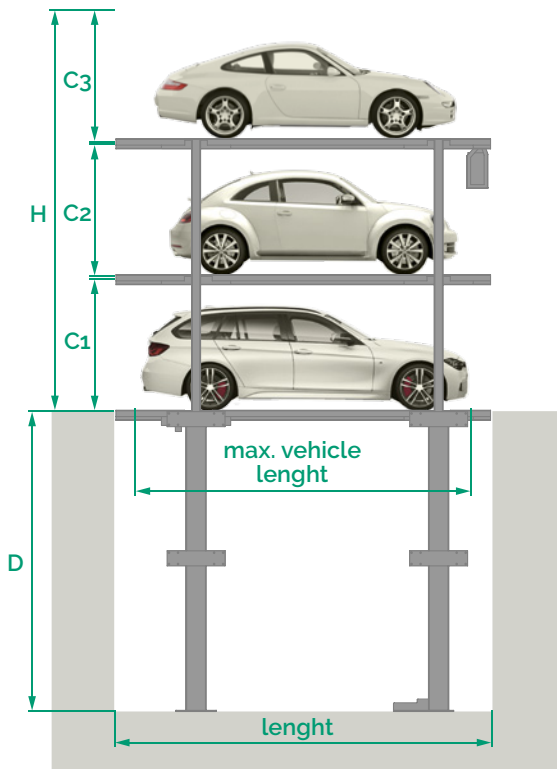
2. DIMENSIONS (IN CM)

D = pit depth
 H = clear height (indoor version)
 C1/C2 = vehicle height bottom / top ^{2*}

D	C1	C2	H	C3
360 -->	150	150	475 -->	150
380 -->	160	160	495 -->	150
400 -->	170	170	515 -->	150
420 -->	180	180	535 -->	150
440 -->	190	190	555 -->	150
460 -->	200	200	575 -->	150

Special dimensions are available upon request

^{2*} The vehicle height with roof rails, antenna and other height increases must not exceed the listed max. vehicle heights.



3. TECHNICAL DATA

Maximum vehicle weight

- 2000kg / 500kg wheel load
- 2600kg / 650kg wheel load

Height

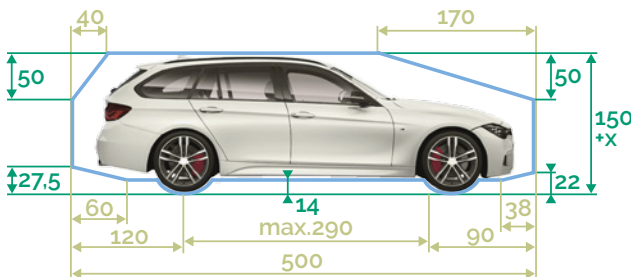
- In case of larger ceiling height, higher vehicles can be parked on the top platform accordingly.
- In outdoor installation car height on top is indefinite.

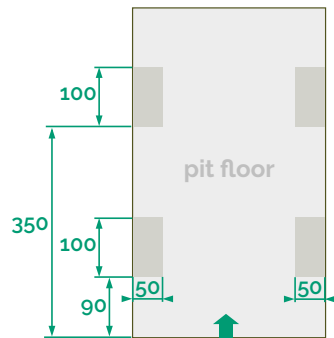
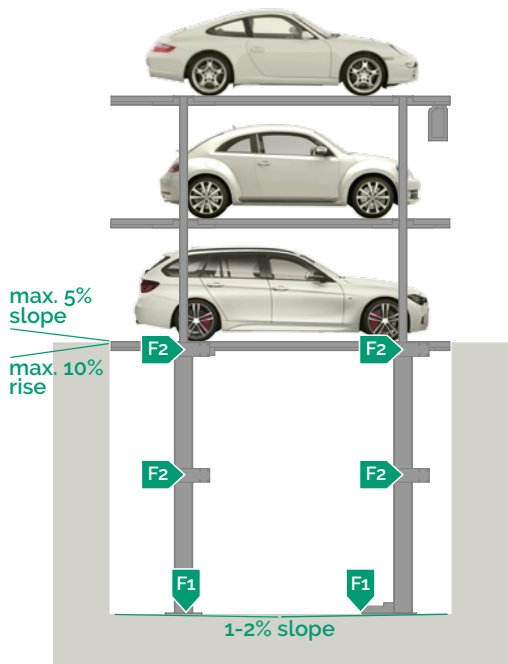
System Length / Pit length

- For a 500 cm car length a 530 cm system length is necessary.
- A pit length of 540 cm is recommended. This enables larger safety distances if new, longer vehicles are purchased.

Dimensions

- All dimensions are minimum finished dimensions in cm.
- Allow for tolerances to VOB Part C (DIN 18330, 18331) and additionally DIN 18202 (+ 30 mm / 0 mm).





6. ELECTRICAL ELEMENTS

Connected load of unit: 2x3 kW / 400 V / 50 Hz

Services provided in the system:

- Operator terminal including two interactive push buttons for raising and lowering.
- Emergency stop placed outside of the system's range of movement.

To be provided from customer:

Item	Description
1	Electric meter
2	Fuse or automatic circuit breaker according to DIN VDE 0100 part 430, max. 20 A
3	According to local power supply regulations 3 PH + N + PE
4	Main switch lockable
5	Connection for the protective potential equalization DIN 60204
6	Protective bonding all 10m

4. ACCESS CONDITIONS

Maximum slope / rise

- Max. 5% slope ^{3*}
- Max. 10% rise ^{3*}

^{3*} In case of higher values, safe access of the vehicle cannot be guaranteed by DE-PARK.

Drainage

- 1-2 % slope on the pit floor

Pit Floor

The pit floor should be built according to the drawing below. The four corners with the dimensions 50 x 100 cm must be even and leveled.

5. FORCES ON THE STRUCTURE

	2000 kg	2600 kg
F1	30 kN	42 kN
F2	6 kN	6 kN

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

7. ANCHORING

- Systems are anchored into the floor and rear wall. The hole depth is approx. 13 cm.
- The quality of the concrete in the structure (for the parking system) must be at least C20/25.
- The precise position of the load application points depends on the selected system. For precise values, please contact DE-PARK.

8. TYPE OF CONTROL

Interactive control unit:

We replaced the dead man's control function from the turning key to a set of two interactive push buttons. This advancement provides additional comfort, security and functionality.

- The push buttons are illuminated so that the control unit can provide information on the system status.
- This new system allows the integration of many custom safety solutions.

9. REQUIREMENTS

Maintenance, cleaning & prevention

- The systems must be serviced and cleaned regularly. This applies more so if the systems and the platforms are exposed to aggressive substances such as salt, water, dirt, operating supplies, sand, etc.
- Adequate drainage must be ensured.

Ventilation and Lighting

- The garage must be adequately ventilated.
- The parking spaces must be adequately illuminated on site as specified.

Ambient conditions

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



Marking tape on the edge of the pit

According to EN 14010 / ISO 3864, a 10cm wide, black & yellow warning marking must be attached to the edge of the pit.



Separating elements / Barriers

According to EN ISO 13857, separating elements or barriers must be installed in the pedestrian area / accessible areas around the parking system, including during installation.



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.



Noise emissions

According to the noise insulation regulations for buildings to DIN 4109, a value of 30dB (A) must be complied with in occupied rooms and spaces. You receive a sound insulation package with the system for the required 30dB (A) insulation of the structure is also necessary. Sound reduction index min. $R_w = 57\text{dB}$.

10. CE AND CONFORMITY



The systems conform to ...

- EN 14010-2009-12 Safety of Machinery - Equipment for power driven parking of motor vehicles
- Machinery Directive 2006/42/EC

Design changes

We reserve the right to continuously develop our product on the basis of technical progress and to make changes and/or modifications to parts, assemblies or overall, to processes and to standards with no advance notice.

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