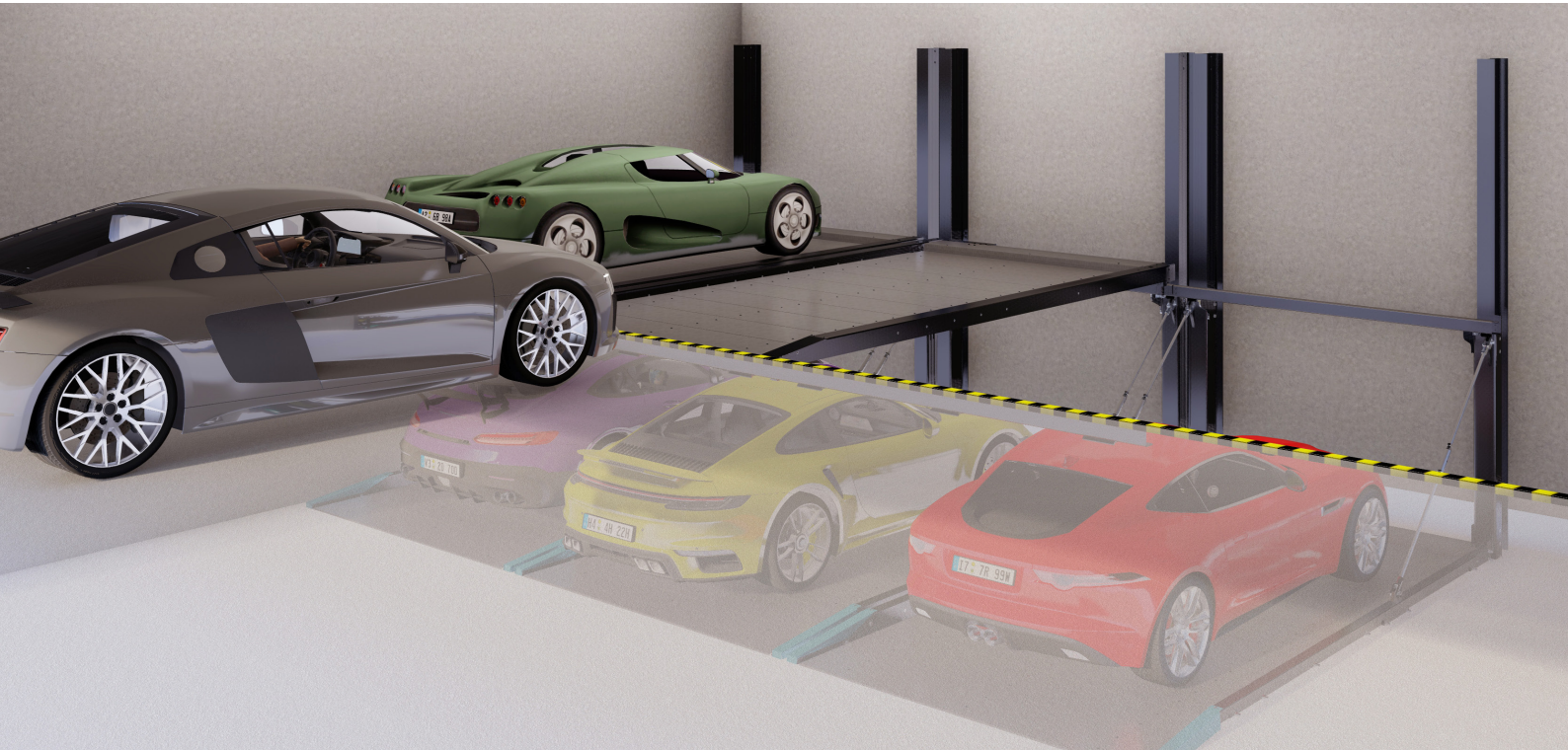




MAKING PLACE



DATASHEET S12

Semi-automatic car parking system on
2 levels with pit

TRONIK PARKING TECHNOLOGIES



DESIGNED, DEVELOPED AND MADE IN GERMANY.

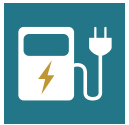
LEGEND



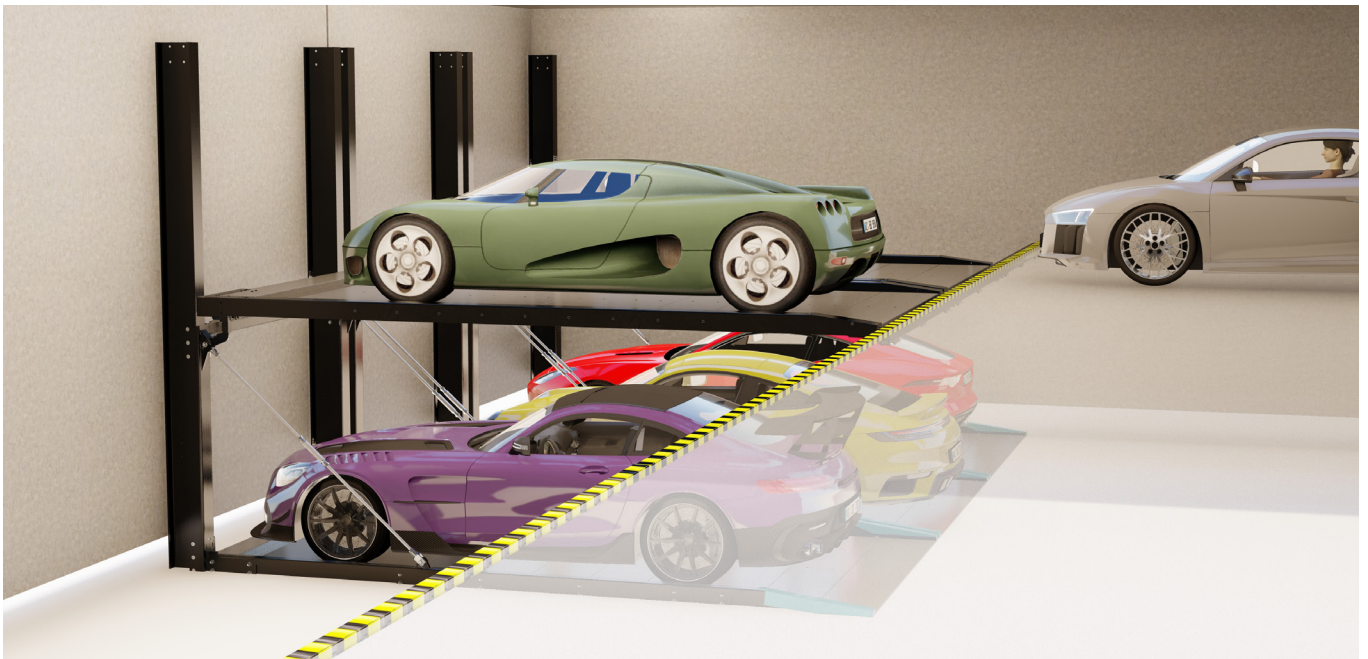
The offered systems comply with DIN EN 14010 and the EU Machinery Directive 2006/42/EC.



Maximum load per parking space (kg) for single parking systems.



A charging station can be retrofitted at any time.



PRODUCT DESCRIPTION S12

The S12 parking system enables independent parking on two levels with low installation heights and offers a high level of comfort thanks to flat platforms and semi-automatic control via touch-screen. Its modular segment design allows up to 19 parking spaces per system. The robust, horizontally accessible platforms ensure safe operation and efficient use of space. Ideal for residential, office, and commercial buildings.

Gates are required for this system. Optionally, the gates can be electrically operated and controlled by remote control.

ADDITIONAL DOCUMENTATION



Drive-on plates-PDF



Gate options-PDF

THE PERFECT SOLUTION FOR LOW CLEAR HEIGHTS

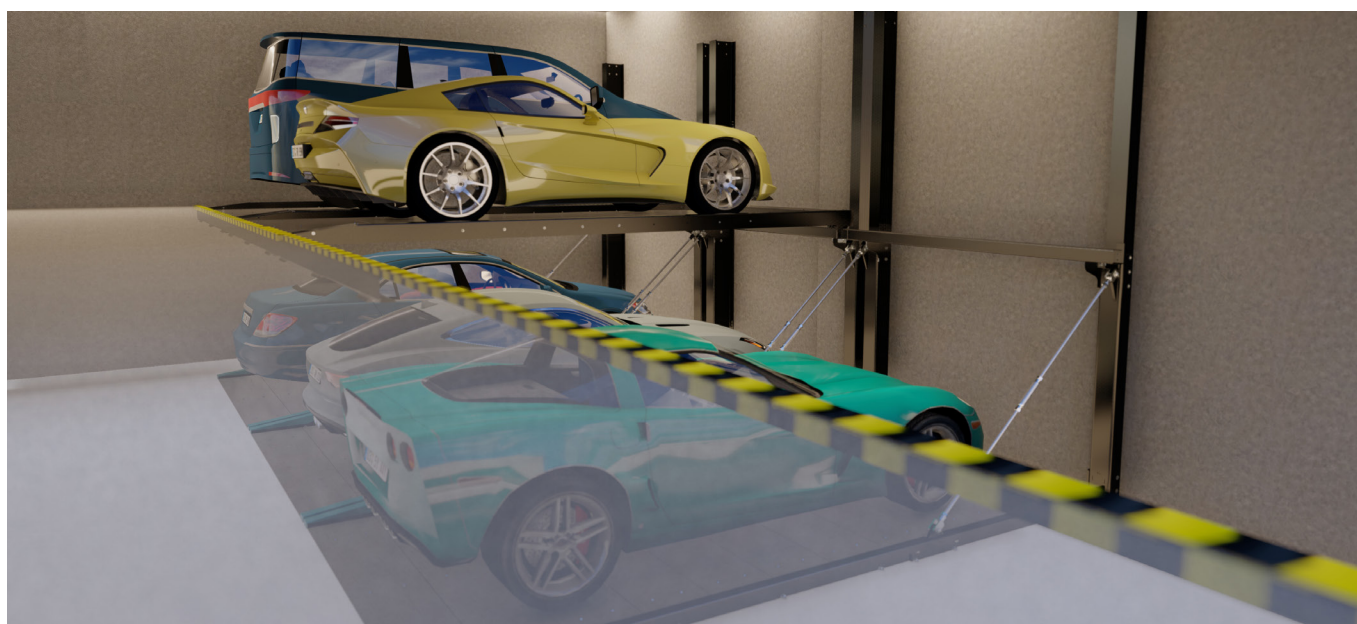
Ideal for use in residential developments, office and commercial buildings, as well as hotels. Use is intended exclusively for a defined group of trained, permanent users. Installation is possible indoors; outdoor installation is available on request.

VEHICLE WEIGHT (max.)

	weight	wheel load
standard	2000 kg	500 kg
optional	2600 kg	650 kg
	3000 kg	750 kg (sliding pallet)



THE INDEPENDENT S12 CAR PARKING SYSTEM, WITH HORIZONTALLY ACCESSIBLE PLATFORMS AND TWO PARKING LEVELS, IS INSTALLED IN A PIT.



OUR STANDARD: FLAT PLATFORMS WITHOUT TRIP EDGES

COMPACT PLANNING. FAST INSTALLATION. EASY OPERATION.

Our well-engineered design enables straightforward planning, quick installation with few components, and comfortable, barrier-free use.

MODULAR DESIGN IN SEGMENTS

FUNCTIONAL DESCRIPTION – MAKING PLACE S-SYSTEMS

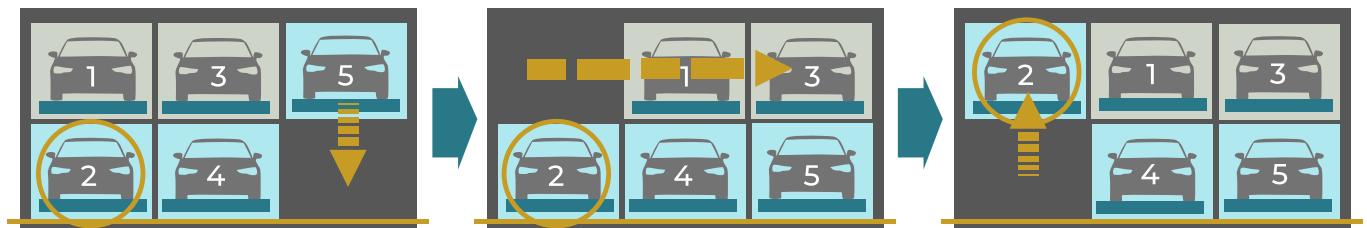
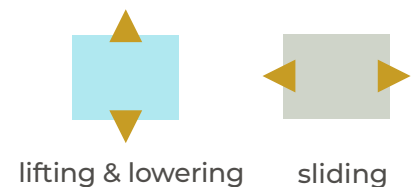
Our digital series combines vertically and horizontally moving platforms.

For the shifting process, one empty space is always kept free on the access level. You can conveniently select your parking space at the control terminal by pressing a button.

Example: 3 segments with 5 parking spaces plus one empty space.



MINIMUM OF 2 SEGMENTS
FOR 3 VEHICLES
ALL PLATFORMS ARE HORI-
ZONTALLY ACCESSIBLE.



A) To move parking space no. 2 upward, parking space no. 5 is first lowered.

B) Parking spaces no. 1 and no. 3 are then shifted side-ways.

C) Finally, parking space no. 2 is raised to the access level.

Our Comfort Standard:

- No columns in the front area
- Flat, level platforms for easy entry and exit
- Elegant gates and innovative solutions for comfortable and safe maneuvering

HEIGHT DIMENSIONS

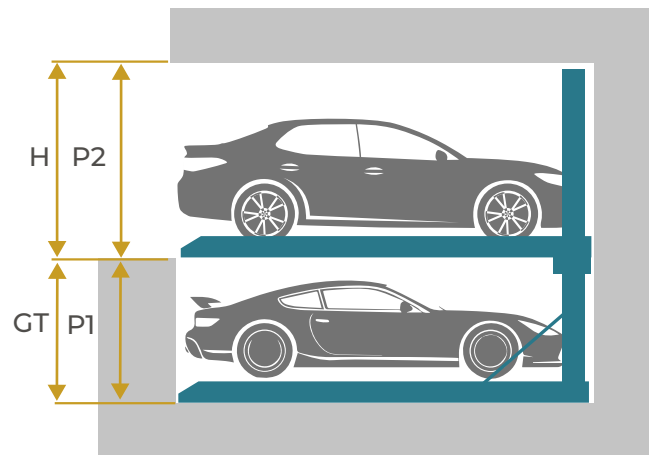
The pit depth (PD) determines the maximum permissible vehicle height on the lower level (P1). The upper vehicle (P2) is defined by the clear height (H), i.e. the total height available for both vehicles.

The clear height must be at least 195 cm to ensure that both the lower and upper vehicles can be parked safely.

Example:

With a pit depth of 190 cm, the lower vehicle (P1) may be up to 170 cm high.

The clear height must be at least 340 cm so that an upper vehicle (P2) with a height of 150 cm can be accommodated above it.



Overview of Dimensions:

Pit depth (PD): 175–230 cm (available in 5 cm increments)

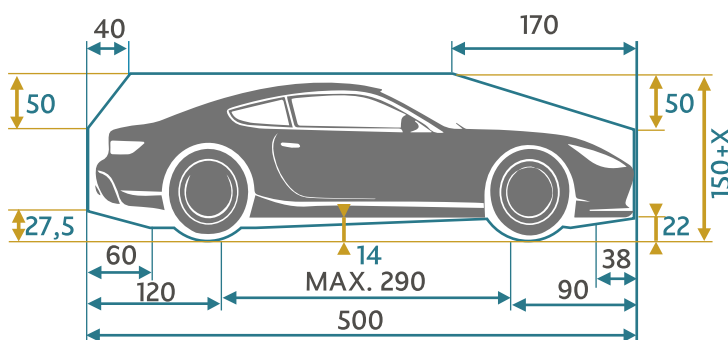
Maximum vehicle height, lower level (P1): up to 205 cm (depending on pit depth)

Clear height (H): minimum 195 cm

Maximum vehicle height, upper level (P2): dependent on the building structure; a greater clear height allows for taller vehicles on the upper level

Pit Depth (GT)	Max. Vehicle Height Lowe (P1)	Clear Height (H)	Max. Vehicle Height Upper (P2)
175 cm	150 cm	175 cm	160 cm
180 cm	155 cm	180 cm	165 cm
200 cm	175 cm	200 cm	185 cm
210 cm	185 cm	210 cm	195 cm
220 cm	195 cm	220 cm	205 cm
230 cm	205 cm	230 cm	215 cm

CLEARANCE PROFILE



 **Maximum height:** Vehicle including roof rack, antenna, etc. must not exceed the stated limits.

Upper platform: Use of the top platform (P3) is limited if a roof structure is located above the system.

Dimensions:
All values are minimum dimensions.

Standards & Tolerances:
Additionally subject to

- VOB Part C (DIN 18330, DIN 18331)
- DIN 18202

LENGTH DIMENSIONS

Ⓐ Clearance

Space for on-site installations.

Ⓓ Drive-through height

Clear drive-through height at the lintel in accordance with the Garage Regulation (GaVO).

When gates are installed, the vehicle height + 15 cm applies. Please check the applicable GaVO regulations.

Ⓑ Space

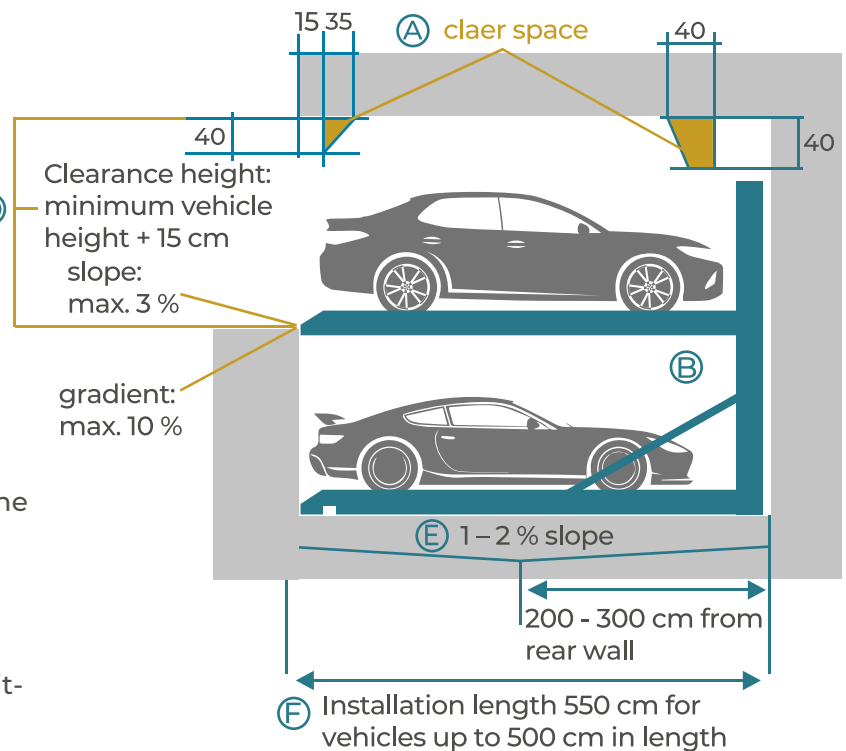
No building columns are permitted within the area of the parking system.

Ⓒ Grounding

Potential equalization between the foundation earth electrode and the system (to be provided on site).

Ⓔ Drainage

The pit floor must have a slope of 1–2 %. Drainage should be positioned 200–300 cm from the rear wall. We recommend installing a drainage channel (10 x 2 cm) with a sump pit (50 x 50 x 20 cm).



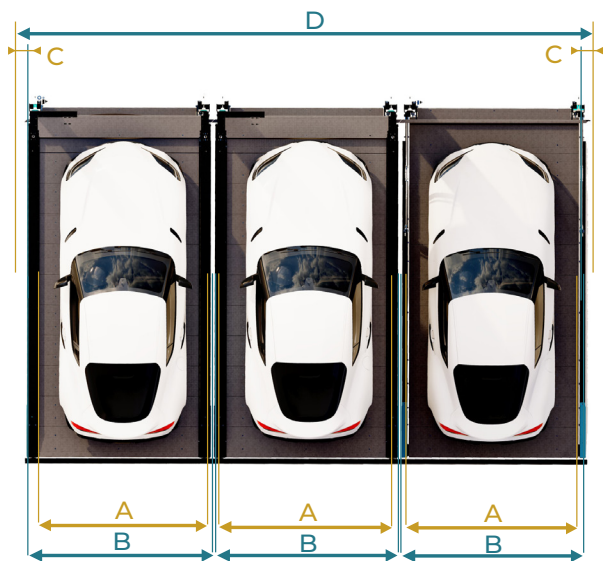
Ⓕ Installation length

For vehicles with a length of up to 500 cm, a minimum installation length of 550 cm is required. For longer vehicles up to 520 cm, the installation length should be at least 570 cm. Shorter versions are generally possible; however, local parking regulations must always be observed. For comfortable use, we generally recommend an installation length of 560 cm.

Thanks to the innovative design, accessing the parking space is particularly convenient. The continuously flat platform ensures high comfort and maximum safety. A gentle ramp incline and the lowered side beam facilitate maneuvering and reduce the risk of collisions.

ATTENTION: Gates are mandatory! Please refer to the “Gate” brochure.

WIDTH DIMENSIONS



Segmented construction

A = Parking space width (clear platform width)

B = Segment width

C = Additional width (outer segments)

D = Total width

Dimensions are given in centimeters (cm).

Each segment grid requires an access lane (entry/exit).

parking width A	system width B	additional width C
230 cm	250 cm	10 cm
240 cm	260 cm	10 cm
250 cm	270 cm	10 cm
260 cm	280 cm	10 cm
270 cm	290 cm	10 cm

■ Due to the design, the clear parking width of the sliding platform is generally approx. 15 cm narrower than that of the lifting platform.

- Thanks to the flat side panels, there is still sufficient space for parking and comfortable entry and exit.
- The two outer segments each require an additional width of 10 cm.
- Dimensional tolerances on site: 0 to +3 cm.

The **S12** model is flexibly expandable – up to 10 segments with a total of 19 parking spaces are possible.

Parking width A	Total width D with x segments								
	2 seg. 3 vehicle	3 seg. 5 vehicle	4 seg. 7 vehicle	5 seg. 9 vehicle	6 seg. 11 veh.	7 seg. 13 veh.	8 seg. 15 veh.	9 seg. 17 veh.	10 seg. 19 veh.
230	520	770	1020	1270	1520	1770	2020	2270	2520
240	540	800	1060	1320	1580	1840	2100	2360	2620
250	560	830	1100	1370	1640	1910	2180	2450	2720
260	580	860	1140	1420	1700	1980	2260	2540	2820
270	600	890	1180	1470	1760	2050	2340	2630	2920

WIDTH DIMENSIONS WITH COLUMNS IN FRONT OF THE PARKING AREA



A	seg. outside	seg. inside
230	250	230
240	260	240
250	270	250
260	280	260
270	290	270

min.20

A	seg. outside	seg. inside	seg. inside	seg. inside
230	500		480	
240	520		500	
250	540		520	
260	560		540	
270	580		560	

min.20

A	seg. outside	seg. inside	seg. inside	seg. inside	seg. inside	seg. inside
230	750			730		
240	780			760		
250	810			790		
260	840			820		
270	870			840		

min.20

OPERATION OF THE PARKING SYSTEMS



(RMD) remote monitoring & diagnostics

for fast online analysis and reliable maintenance: rmd ensures smooth operation of the system.

available as an option.

requirement: a dsl line with internet access must be provided on site at the control cabinet.

Modern touchscreen control unit with integrated key switch and emergency stop function.

OPERATING OPTIONS

manual sliding gates (standard)

manual opening and closing with mechanical locking.

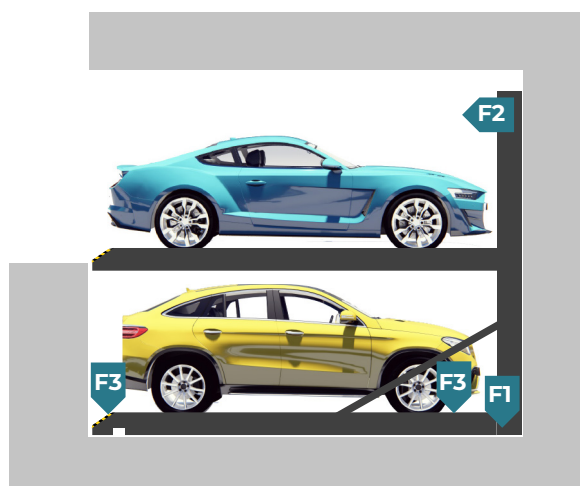
electric sliding gates (optional)

semi-automatic operation via the touchscreen control unit with the functions "open gate" and "close gate".

CONSTRUCTION DETAILS (SEE ALSO PLANNING NOTES)



Marking according to ISO 3864 (provided by the customer)



The load F2 can also be transferred via the ceiling.
Ceiling fixation is available if required.

Walls

Walls on the entrance side and at the rear must be made of concrete and executed completely flush (without any protruding parts).

Anchoring and floor requirements

The systems are anchored to the floor and the rear wall using heavy-duty anchors.

The drilling depth is approximately 13 cm.

The base slab must be at least 20 cm thick and the concrete quality must comply with the structural requirements of the building.

Minimum concrete quality: C20/25.

Please observe the flatness tolerances in accordance with DIN 18202, Table 3, Line 3.

According to DIN EN 14010, the safety clearance between the lowest outer edges of the parking platforms and the garage floor must not exceed 2 cm.

	2000 kg	2600 kg
F1	20 kN	25 kN
F2	20 kN	25 kN
F3	8 kN	10 kN

ELECTRICAL INSTALLATION

Work to be provided by the client:

No. Description

- 1 Electricity meter
- 2 Fuse or circuit breaker per DIN VDE 0100, Part 430, max. 16 A
- 3 Power supply line to main switch per local regulations (3 PH + N + PE)
- 4 Main switch
- 5 Connection for equipotential bonding per DIN 60204
- 6 Equipotential bonding connection every 10 m

Power supply /System performance

- Power supply: 400 V, 50 Hz, 3 phases
- Power requirement: 2 × 3.0 kW

All other components are fully supplied by Making Place.

Electrical installation – control cabinet

- **Dimensions (depth × width × height):**
approx. 1200 mm × 1600 mm × 210 mm

- **Position:**

The control cabinet should be installed outside the movement area of the system, but in close proximity. Please allow a minimum clearance of 1 meter in front of the cabinet for door opening and sufficient space for authorized personnel.

PLANNING INFORMATION

Maintenance, cleaning, and care

To ensure safe and long-term operation, the system must be serviced and cleaned regularly. Adequate drainage must also be ensured.

Railings and barriers

Traffic areas adjacent to or behind automated parking systems must be secured on site with suitable barriers or guardrails in accordance with DIN EN ISO 13857.

Ventilation and lighting

The parking garage must be ventilated in accordance with applicable regulations. Adequate lighting must be provided to ensure visibility and safety.

Temperature

range: -5 °C to +40 °C.
Relative humidity: max. 80 %.
For deviating conditions, please contact us.

Noise protection

In enclosed areas, the maximum permissible noise level is 30 dB(A) according to DIN 4109. A sound insulation package is included. The building must ensure a sound reduction index of at least $RW'_{w} \geq 57$ dB(A).

Fire protection

Any applicable requirements or measures must be determined and implemented on site.

Conformity

Making Place car parking systems comply with the EU Machinery Directive 2006/42/EC and DIN EN 14010.

ADDITIONAL INFORMATION

Drainage

The pit must have a functioning drainage system, e.g. a front water collection channel connected to the sewer system or a pump sump. A lateral slope within the channel is acceptable; the rest of the pit must remain level. To protect the environment, we recommend coating the pit floor. Oil and fuel separators must be provided as required by local regulations.

Warning Marking

In the access area, a 10 cm wide yellow-black safety marking must be applied to the pit edge in accordance with DIN ISO 3864, clearly identifying the hazard zone per DIN EN 14010.

IMPRINT



**MAKING
PLACE**

Datasheet S12 (with pit)

01/2026

Making Place GmbH

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