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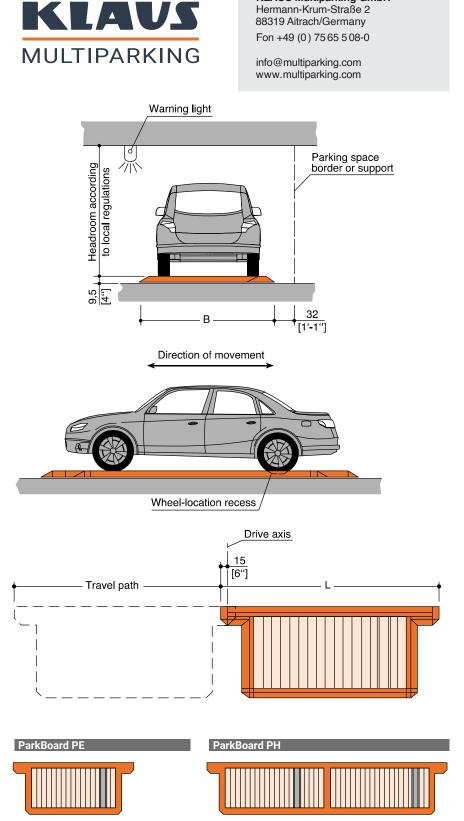
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Electric



KLAUS Multiparking GmbH

Hermann-Krum-Straße 2

PRODUCT DATA parkboard PE parkboard PH

longitudinally shifting

2000 kg [4400 lbs] • 2300 kg [5070 lbs] 🧕

Top edge finished floor Tolerances for the evenness of the carriageway must be strictly complied with in accordance with DIN (= German Industrial Standard) No. 18202, chart 3, line 3.

Dimensions Tolerances for space requirements ${}^{+3}_{0}$ $\left[{}^{+1''}_{0}\right]$ (1 cm = 0,393 in) Dimensions: cm [ft] kg [lbs] (1 kg = 2.2 lbs) Weights: Forces: kN [lbf] (1 kN = 224.8 lbf) Temperature: °C [°F] (0° C = 32° F) ParkBoard PE = 1 car ParkBoard PH = 2 cars ParkBoard PE / PH 2 0 to [4400 lbs]

Parkboaru PE / PH 2,0 to. [4400 lbS]									
Туре		В	Travel path						
PE-215	500 [16'-5"]	215 [7'-1"]	470 [15'-5"]						
PH-215	1000 [32'-10'']	215 [7'-1'']	970 [31'-10"]						
ParkBoard PE / PH 2,3 to. [5070 lbs] 2									
Туре		D							
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		В	Travel path						
PE-245	530 [17'-5"]	245 [8'-0"]	Travel path 500 [15'-5"]						

Suitable for

Standard passenger cars: Limousine, Station Wagon, SUV, Van according to clearance and maximum surface load.

	Standard	Special 2				
width	max. 190 cm	max. 190 cm				
	[max. 6'-3"]	[max. 6'-3"]				
Leve estile	max. 500 cm	max. 500 cm				
length	[max. 16'-5"]	[max. 16'-5"]				
	10 cm [4"] less					
height	than headroom					
weight	max. 2000 kg	max. 2300 kg				
	[max. 4400 lbs]	[max. 5070 lbs]				
wheel load	max. 500 kg	max. 575 kg				
	[max. 1100 lbs]	[max. 1270 lbs]				

Building law requirements

According to the German Building Code parking spaces on longitudinally shifting parking pallets are only permitted if the following requirements are met:

- Next to the ParkBoards a remaining driving lane width of 275 cm [9'-0"] minimum must be maintained.
- ParkBoards must not be installed before power-driven parking systems.
- In case of two-way traffic in the driving lane no through traffic is permitted.
- The ParkBoards must be traversable on all sides.

- Walkable areas must provide headroom of 200 cm [6'-7"]. Make sure to observe the ventilation systems, bearers or other installations. The ParkBoards have a height of 9,5 cm [4"].

Standard type

2 Special system for extra charge.

To follow the minimum finished dimensions, make sure to consider the tolerances according to VOB, part C (DIN 18330 and 18331) and the DIN 18202.

Versions of the drive variants Above-floor drive (Drive S)

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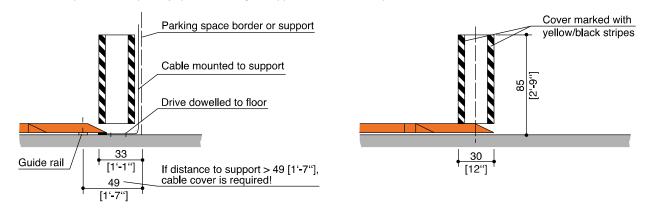
Electric

Evenness tolerances

Examples

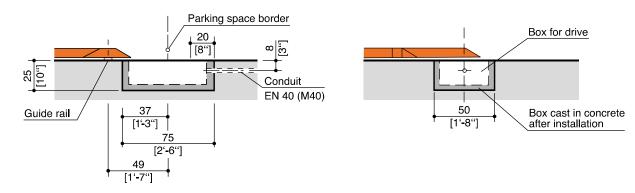
Dimensions Car data

The drive is placed at the parking space boundary or support and does not require a recess in the floor.



Underfloor Drive (Drive U)

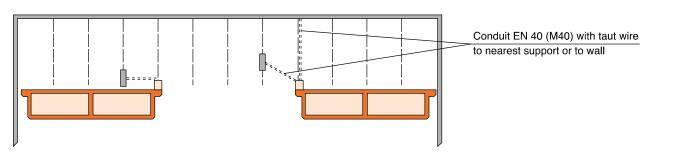
The drive is mounted in a recess in the floor, if the support is to be mounted independently. Precondition: Drive axis located in parking space axis; recess in floor.



The drive housing does not provide complete protection against the ingress of running water. It must be ensured that no running water enters the area of the drive.

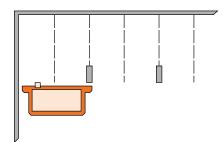
Conduit EN 40 with taut wire to nearest support or to wall. For arrangement of longitudinal pallets, see example.

2 x ParkBoard PH



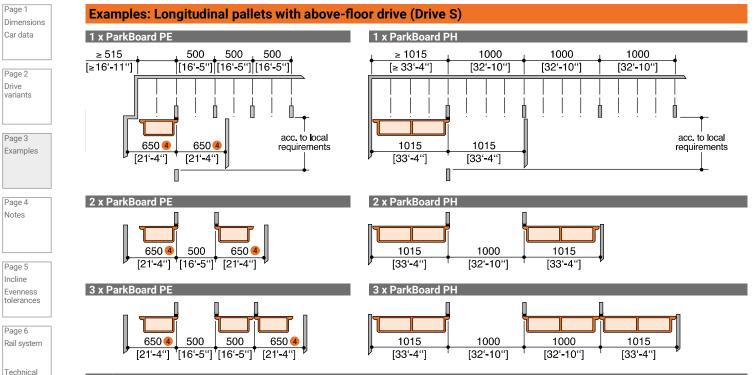
Moving drive (Drive D)

The drive is mounted on the park board. The power is supplied via a tow cable or via a conductor rail. **Attention:** The park board is not traversable in the drive area.





ParkBoard PE/PH | Code number 584.16.990-010 | Version 02.2025



Combination

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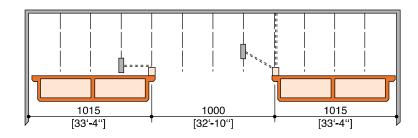
Electric

At a length of 40 m [131'-3'] up to 5 pallets can be arranged as group should their shifting path overlap. In this case the operating elements must be within a distance of 10 m [32'-10'] of a possible point of contact between two pallets.

4 Recommendation of KLAUS Multiparking.

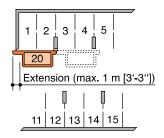
Example: Longitudinal Pallets with Underfloor Drive (Drive U)

2 x ParkBoard PH

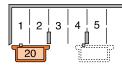


Offset parking spaces

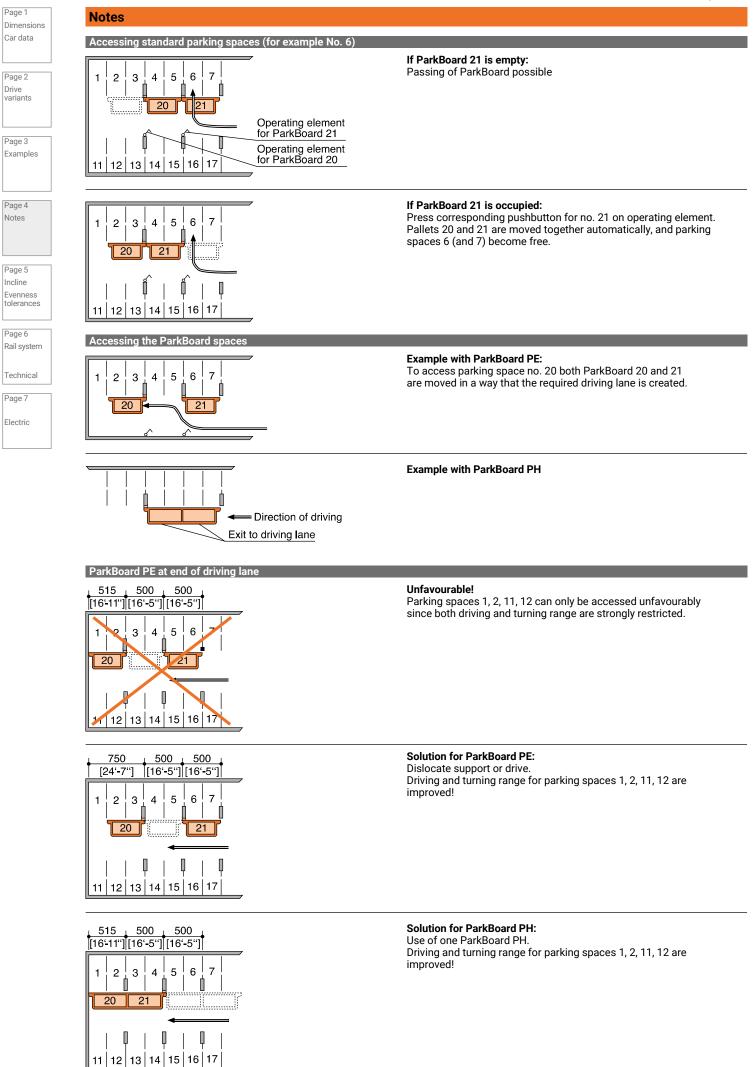
One-sided extension for ParkBoard for Drive S and Drive U.



When using **Drive D**, no one-sided ParkBoard extensions are necessary. **Drive D** allows longer travel path.



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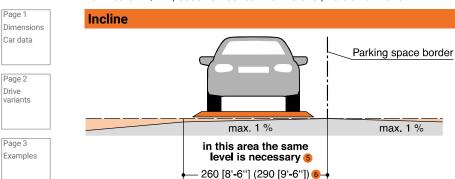
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Tolerances for the evenness of the carriageway must be strictly complied with in accordance with DIN (= German Industrial Standard) No. 18202, chart 3, line 3. No expansion joints are permitted within the area of the rail system.

Dimensions in brackets for PE-245/PH-245.

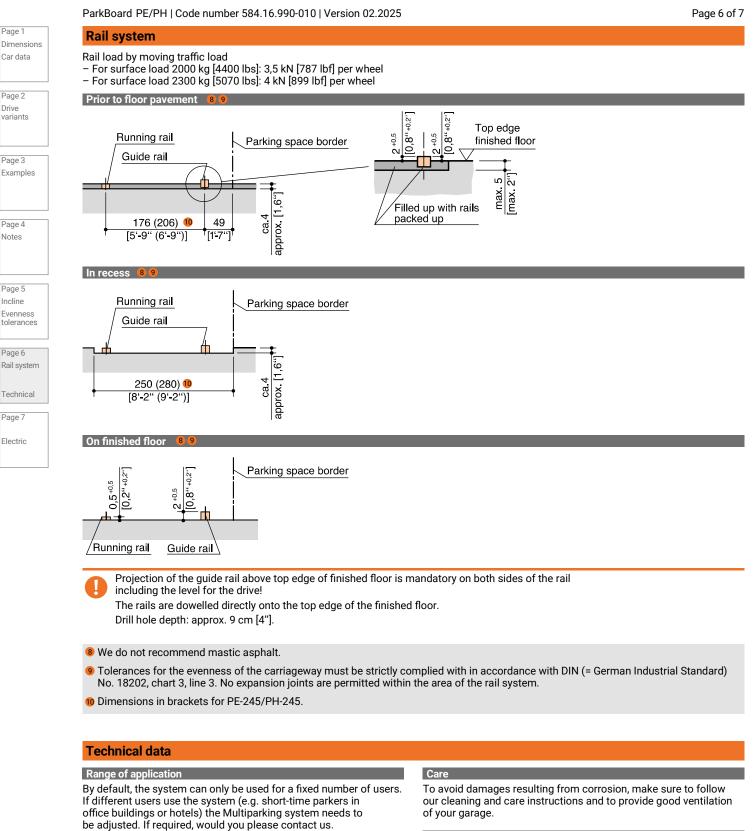
Evenness and tolerances (abstract from DIN 18202, table 3)

The distance between the lower flange of the ParkBoards and the garage ground must therefore not exceed 2 cm [0,8"]. To adhere to the safety regulations and DIN EN 14010 recommendations and to get the necessary even ground, the tolerances of evenness to DIN 18202, table 3, line 3, must not be exceeded. Therefore exact levelling of the ground by the client is essential.

Line Reference Reference $0,1$ 1 4 4 10 12 1,1'' $3'.3''$ $1,1''$ $3'.2''$ $1,1''$ $3'.2''$ $1,1''$ $3'.2''$ $1,1'''$ $1,1''$ $1,1''$ $1,1''$ $1,1''$ $1,1'''$ $1,1''$ $1,1'''$ 1	Column	1	2	3	4	5	6
$\begin{bmatrix} 4'' \\ 3'' \\ 3'' \\ 3'' \\ 13' \\ 10' \\ 12' \\ 15' \\ 10, 5'' \\ 10, $							
2 demands, e.g. as foundation for cast plaster floor, industrial soils, paving tiles and slabstone paving, compund floor paving. Finished surfaces for minor purposes, e.g. warehouses, cellar. 5 8 12 15 20 3 Finished grounds, e.g. floor pavement serving as foundation for coverings. Coverings, tile coverings, PVC flooring and glued coverings. 2 4 10 12 15 10,6" 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Line	Reference		1 [3'-3'']	-		
³ Coverings, tile coverings, PVC flooring and glued coverings. [0,08"] [0,15"] [0,4"] [0,5"] [0,6"]	2	demands, e.g. as foundation for cast plaster floor, industrial soils, paving tiles and slabstone paving, compund floor paving. Finished surfaces for	-	-	. –		
JI [0,8"] IS	3		_	-			
Distance between measuring points in m [ft]	H [0,8''] 15 15 10 10 10 10 10 10 10 10 10 10	Line 3 Line 4 Line 3 Line 4 Line 5 Line 5					

🔊 Intermediate values are to be taken out the diagram and must be rounded-off.

max. 2 cm [0,8"] around the outside edges of the ParkBoard



Available documents

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Evenness tolerances

maintenance offer/contract

- declaration of conformity

Corrosion protection

See separate sheet regarding corrosion protection.

Environmental conditions

Environmental conditions for the area of multiparking systems: Temperature range -10 to +40° C [+14 to +104° F]. Relative humidity 50% at a maximum outside temperature of +40° C [+104° F].

Building application documents

According to LBO and GaVo (garage regulations) the Multiparking systems are subject to approval. We will provide the required building application documents.

CE Certification

The systems offered correspond to DIN EN 14010 and the EC Machinery Directive 2006/42/EG.

Noise emission

Ball bearing of the rollers provide a low sound level.

On block opration

ParkBoards must only be operated on block if the operator's stand is not more than 10 m [32'-10"] from the platform edges that are to be operated on block, and if it is installed at least 1,60 m [5'-3"] above garage floor.

The customer must provide a supply of 5 x 2,5 mm² (3 PH+N+PE)

to the electric cabinet (larger systems may require larger cross

Proposals for position of control box and operating element are specified in the floor plans provided by KLAUS Multiparking.

Consecutive numbering of stationary parking spaces and

Any required lighting, ventilation, fire extinguishing and fire alarm

systems as well as clarification and compliance with the relevant

Any additional yellow-black markings on the platform edges

Flooring structure in accordance with our instructions, please see

Recesses, tolerances for the evenness of the driving lane must

Stuffing of rail system with cement floor for the whole length.

Electrical installation

sections)

Electrical supply / Control system

To be performed by the customer

Numbering of parking spaces

Building services

regulatory requirements.

according to ISO 3864.

page 6 (recesses, rail systems).

Bringing in of floor pavement.

adhere to DIN 18202, sheet 3, line 3.

Floor / Rails

longitudinal shifting ParkBoards.

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Conduit M40 with taut wire to underfloor drive.

Description

General description

Multiparking system for parking 1 or 2 vehicles per ParkBoard. Dimensions are in accordance with the respective underlying beight and width dimensions

ParkBoards, which can be moved lengthwise are installed in the driving lane of underground garages. These parking pallets make it possible to achieve additional parking spaces in the driving lane, which is generally only used for maneuvering vehicles.

The ParkBoards can be driven on if vacant, or moved if occupied by a car when accessing parking spaces located in the back.

This operation uses dead man's control safety mechanism. Therefore, the operating elements are generally mounted to the opposite supports and the ParkBoards and parking spaces arranged by the controller can be seen.

Operating instructions are permanently mounted to each operating station in a clearly visible location.

- These ParkBoards are available in the following designs:
- ParkBoard PE for 1 car
- ParkBoard PH for 2 cars in a row

ParkBoard consisting of:

- Sloped steel frames with supported low-noise track and guide rollers
- Cross members
- Platform base sections (cover plates)
- Positioning aid
- Various small parts etc.
- ParkBoard height approx. 9,5 cm [4"] above finished floor

Above-floor drive:

- Base plate mounted to the ground with geared motor
- Limit switch and housing
- The housing also serves as safety mechanism. The load transmission is carried out via a high-tension chain located in a U-profile which is open facing outwards. This chain is looped around two chain wheels and driven by the motor.

Operatio

Operation via operating element with automatic reset function (two pushbuttons for left/right movement).

Electrical supply to the control box

Power supply: three phase 230/400 V/50 Hz with neutral and ground wire (other voltage network, voltage or frequency are possible after the technical checking by us).

Main fuse:

3 x fuse 10 A (slow) or circuit breaker 3 x 10 A (trigger characteristic K or C).

For 5 ParkBoards and more:

3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C).

Supply line 5 x 2.5 mm² to the main cabinet, depending on line layout, line length or system size a larger cross sections may be required. DIN VDE 0100 and other relevant local standards must be observed

The supply line to the main cabinet must be provided by the customer during installation. The functionality can be monitored on site by our fitters together with the electrician. If this cannot be done during installation for some reason for which the customer is responsible, the customer must commission an electrician at their own expense and risk.

Underfloor drive:

This drive unit is mounted in a floor recess which must be built by the customer. This drive consists of:

- 1 geared motor
- Chain wheels
- Limit switch
- Fully mounted in a stable underfloor housing with cover
- The load transmission is carried out identically to the "above-floor drive"

Moving drive:

- Drive unit mounted to the ParkBoard
- Power is supplied via a drag-line cable (or via contact lines in exceptional cases)
- The load transmission is carried out using a chain, which is inlaid in a special rail (double rail)

Rail system consisting of:

- Two rails mounted on the floor
- The rails protrude 5 20 mm [0,2" 0,8"] above finished floor The rail on the entrance side is the guide rail and ensures safe
- guiding when shifting the ParkBoards.

Electrical equipment consisting of:

- Operating device with 2 buttons (right/left)
- Emergency Stop
- Control box
- Blinking lights
- Various cables with accessories

Control system

- The ParkBoards are operated using a push-button with corresponding direction definition in hold-to-run control
- Limit switches stop the ParkBoards when the maximum movement distance has been reached
- Warning lights blink during movement
- The electrical wiring originates in the control box

We reserve the right to change this specification without further notice

KLAUS Multiparking reserves the right in the course of technical progress to use newer or other technologies, systems, processes, procedures or standards in the fulfillment of their obligations other than those originally offered provided the customer derives no disadvantage from their so doing.