Tender specification KLAUS Multiparking
ParkBoard PE / ParkBoard PH

Preliminary technical remarks

1. Basis for the design are

1.1 the garage regulations (GaVo) according to the building regulations in the latest version,

1.2 the EC Machinery Directive 2006/42/EC, Appendix 1, and the DIN EN 14010

1.3 the architect's workshop drawings

2. The bidder confirms upon submission of the bid that the garage dimensions and the driveway widths comply with the GaVo, the relevant implementation guidelines to be specified by him and the system offered by him.

3. Required surface loads according to DIN 1055, page 3, per parking space: 2.0 t

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Specification

General:

Multiparking system for parking 1 or 2 vehicles per ParkBoard.
Dimensions according to product data sheet ParkBoard PE/PH and the widths and heights taken as basis. ParkBoards, which can be moved lengthwise are installed in the driving lane of underground garages. These ParkBoards 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 over 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.

ParkBoard PE – for 1 car
ParkBoard PH – for 2 cars one behind the other

Controll system:
– The ParkBoards are operated using a push-button with corresponding direction definition in hold-to-tun 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

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.

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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 (special):
– Drive unit mounted to the ParkBoard
– Power is supplied via a drag-liine 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)

Corrosion protection:
Corrosion protection according to DIN EN ISO12944-2, corrosive category C3 moderate

– Frame construction hot-dip galvanized (strip galvanized) in accordance with DIN EN 10326, Z 275 NA, film thickness approx. 20 µm, and additional orange powder-coating (Epoxy / Polyester base) RAL 2000, dry film thickness approx. 60 – 80 µm

– Platform profiles, hot-dip galvanized according to DIN EN ISO 1461, layer thickness approx. 45 µm

– cross members hot-dip galvanized according to DIN EN ISO 1461, layer thickness approx. 55 µm.

– Rail unit hot-dip galvanized according to DIN EN ISO 1461, layer thickness approx. 55 µm

– Screws, nuts and washers electrogalvanized, film thickness approx. 8 – 12 µm, screws Delta-Magni-coated with additional upper side wax layer after installation.

To be performed by the customer:

1. 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.

2. Numbering of parking spaces:
   Consecutive numbering of stationary parking spaces and longitudinal shifting ParkBoards.

3. Building services:
   Any required lighting, ventilation, fire extinguishing and fire alarm systems as well as clarification and compliance with the relevant regulatory requirements.

4. Marking:
   Any additional yellow-black markings on the platform edges according to ISO 3864.

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5. Floor/rails:
   Flooring structure in accordance with our instructions, please see page 2 and 3 (recesses, rail systems).
   Recesses, tolerances for the evenness of the driving lane must adhere to DIN 18202, sheet 3, line 3.
   Stuffing of rail system with cement floor for the whole length.
   Bringing in of floor pavement. Conduit M40 with taut wire to underfloor drive.

Multiparking system for 1 car
ParkBoard PE-215

Multiparking system for 1 car per ParkBoard

Vehicle width: up to 190 cm

Vehicle length: 500 cm

Usable platform width: 215 cm

Platform load: 2,0 t

incl. freight, unloading, installation
incl. electrical wiring from main cabinet
incl. expert acceptance

Option:
Extra costs for KLAUS ParkBoard PE-245
(Usable platform width 245 cm)

– Dimensions acc. to manufacturer specifications –

Multiparking system for 2 cars
ParkBoard PH-215

Multiparking system for 2 cars per ParkBoard

Vehicle width: up to 190 cm

Vehicle length: 500 cm

Usable platform width: 215 cm

Platform load: 2,0 t

incl. freight, unloading, installation
incl. electrical wiring from main cabinet
incl. expert acceptance

Option:
Extra costs for KLAUS ParkBoard PH-245
(Usable platform width 245 cm)

– Dimensions acc. to manufacturer specifications –

Optional position
Extra costs for moving drive

Optional position
Extra costs for one-sided extension

Optional position
Extra costs for increase of platform load to 2.3 t per parking space for ParkBoard PE-245

Optional position
Extra costs for increase of platform load to 2.3 t per parking space for ParkBoard PH-245

Extra costs for conclusion of a system service contract SSVP "PLUS" with cleaning and care, incl. maintenance 1 per year, all spare and wear parts, and cleaning and care of the platform surface.
