Tender specification KLAUS Multiparking
MultiBase 2078i EB / MultiBase 2078i DB

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 supplier 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 EN 1991-1-1, per parking space: 2.0 t

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Specification

General:
Multiparking system for independent parking of 2 cars (EB) or 2 x 2 cars (DB) on top of each other. Dimensions according to product data sheet MultiBase 2078i and the pit dimensions, widths and heights taken as basis. The upper parking bays are accessed inclined (approx. 2° ascending slope). The lower parking bays are accessed inclined (approx. 8°descending slope). Installation tolerance: +/- 1%. Operation via operating device with hold-to-run-device using master keys.

MultiBase 2078i EB - 2 platforms for 2 cars on top of each other

MultiBase 2078i DB - 2 double-width platforms for a total of 4 cars

Corrosion protection:
Corrosion protection according to DIN EN ISO 12944-2, corrosive category C3 moderate

- Platform profiles coated with zinc-aluminium-magnesium according to DIN 10326
- Cover plates and optional platform extensions hot-dip galvanized according to DIN EN ISO 1461, layer thickness min. 45 µm
- Side members coated with zinc-aluminium-magnesium according to DIN 10326
- Optional extensions hot-dip galvanized according to DIN EN ISO 1461, layer thickness min. 55 µm
- Central side members (only DB) coated with zinc-aluminium-magnesium according to DIN 10326
- Cross members hot-dip galvanized according to DIN EN ISO 1461, layer thickness min. 55 µm
- Access plates, hot-dip galvanized in accordance with DIN EN ISO 1461 film thickness min. 55 µm
- Fastening screws for platform profiles, stainless steel V4A
- Hydraulic tubes, screwed joints, bolts, screws, nuts and washers electrogalvanized
- Other steel components, shot-peened (particle cleanliness SA 2,5) and grey powder coating (Epoxy / Polyester base) RAL 7040, dry film thickness approx. 60-80 µm

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Hydraulic unit:
The hydraulic unit is used to drive several Multiparkers if they are arranged next or opposite (separated by the driveway only) to each other. The system is controlled with the control unit on for each Multiparker. The hydraulic unit installed is supported rubber-bonded metal. However, we still recommend separating the garage body from the residential house.

Services to be provided by the customer:

1. Electrical supply to the main switch / Foundation earth connector:
   Suitable electrical supply to the main switch 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.
   In accordance with DIN EN 60204 (Safety of Machinery. Electrical Equipment), grounding of the steel structure is necessary, provided by the customer (distance between grounding max. 10 m).

2. Safety fences:
   Any constraints that may be necessary according to DIN EN ISO 13857 in order to provide protection for the park pits for pathways directly in front, next to or behind the unit. This is also valid during construction. Railings for the system are included in the series delivery when necessary.

3. Numbering of parking spaces:
   Consecutive numbering of parking spaces.

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

5. Drainage:
   For the front area of the pit we recommend a drainage channel, which you connect to a floor drain system or sump (50 x 50 x 20 cm). The drainage channel may be inclined to the side, however not the pit floor itself (longitudinal incline is available). For reasons of environmental protection we recommend to paint the pit floor, and to provide oil and petrol separators in the connections to the public sewage network.

6. Strip footings:
   If due to structural conditions strip footings must be effected, the customer shall provide an accessible platform reaching to the top of the said strip footings to enable and facilitate the mounting work.

7. Marking:
   In compliance with DIN EN 14010, 10 cm wide yellow-black markings compliant to ISO 3864 must be applied by the customer to the edge of the pit in the entry area to mark the danger zone.

8. Wall cuttings:
   Any necessary wall cuttings according to product data MultiBase 2078i.

9. Operating device:
   Cable conduits and recesses for operating device see product data MultiBase 2078i.

10. Concrete quality:
    Floor and walls below the drive-in level are to be made of concrete (quality minimum C20/25).

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Multiparking system for 2 cars
MultiBase 2078i-165 EB

Multiparking system for 2 cars. The upper parking bays are accessed inclined (approx. 2° ascending slope). The lower parking bays are accessed inclined (approx. 8° descending slope)

Pit depth: front: 170 cm, back: 165 cm

Clearance: 290 cm
If a higher ceiling height is available higher cars can be parked on the upper parking space.

Vehicle height:
top: 150 cm (only limousine)
bottom: 150 cm (limousine and station wagon)

Vehicle length: 500 cm

Usable platform width: 230 cm

Platform load: 2.0 t

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

Multiparking system for 4 cars
MultiBase 2078i-165 DB

Multiparking system for 4 cars

Usable platform width: 460 cm

Otherwise as described for Multiparking system for 2 cars

Hydraulic unit, low-noise:
3,0 kW for platform load 2,0 t
5,2 kW for platform load 2,6 t and 3,0 t

Option:
Extra costs for KLAUS MultiBase 2078i-160 EB
(car height at bottom up to 145 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-160 DB
(car height at bottom up to 145 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-165 EB
(car height at bottom up to 150 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-165 DB
(car height at bottom up to 150 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-170 EB
(car height at bottom up to 155 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-170 DB
(car height at bottom up to 155 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-175 EB
(car height at bottom up to 160 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-175 DB
(car height at bottom up to 160 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-180 EB
(car height at bottom up to 165 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-180 DB
(car height at bottom up to 165 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-185 EB
(car height at bottom up to 170 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-185 DB
(car height at bottom up to 170 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-190 EB
(car height at bottom up to 175 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-190 DB
(car height at bottom up to 175 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-195 EB
(car height at bottom up to 180 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-195 DB
(car height at bottom up to 180 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-200 EB
(car height at bottom up to 185 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-200 DB
(car height at bottom up to 185 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-205 EB
(car height at bottom up to 190 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-205 DB
(car height at bottom up to 190 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-210 EB
(car height at bottom up to 195 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-210 DB
(car height at bottom up to 195 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-215 EB
(car height at bottom up to 200 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-215 DB
(car height at bottom up to 200 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-220 EB
(car height at bottom up to 205 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-220 DB
(car height at bottom up to 205 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-225 EB
(car height at bottom up to 210 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-225 DB
(car height at bottom up to 210 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-230 EB
(car height at bottom up to 215 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS MultiBase 2078i-230 DB
(car height at bottom up to 215 cm)

– Dimensions acc. to manufacturer specifications –

Optional position
Extra costs for larger platform width _____ cm

Optional position
Extra costs for increase of platform load to 2.6 t per parking space, EB system

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Optional position
Extra costs for increase of platform load to 2.6 t per parking space, DB system

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Optional position
Extra costs for increase of platform load to 3.0 t per parking space, EB system

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Optional position
Platform coating in AluLongLife

Optional position
Platform coating in EasyWalk

Optional position
Extra costs for additional noise protection measures to protect against structure-borne sound according to DIN 4109-1, EB system

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* Optional position *
Extra costs for additional noise protection measures to protect against structure-borne sound according to DIN 4109-1, DB system

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Optional position
Extra costs for additional increased noise protection measures to protect against structure-borne sound according to VDI 4100, EB system

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Optional position
Extra costs for additional increased noise protection measures to protect against structure-borne sound according to VDI 4100, DB system

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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.