

Page 1 Section

Car data

Page 2

Height dimensions

Page 3

Width dimensions

Page 4

Width

Page 5 Width dimensions without door

Page 6 Width

dimensions

with door

Page 7

Page 8

Page 9 Electrical installation

Approach Installation

Load plan

Function

without door

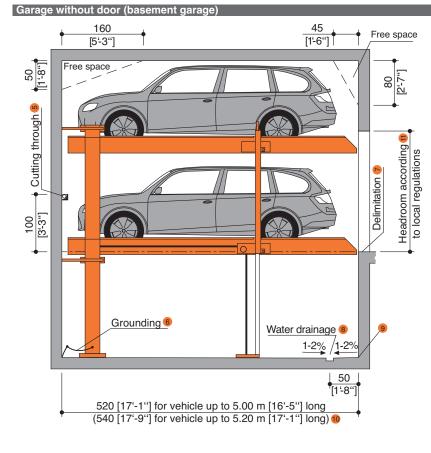
dimensions

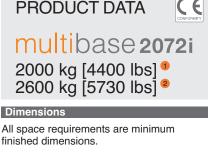
without door



KLAUS Multiparking GmbH Hermann-Krum-Straße 2 D-88319 Aitrach Fon +49 (0) 7565 508-0 Fax +49 (0) 7565 508-88

info@multiparking.com www.multiparking.com





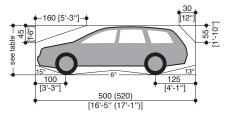
Tolerances for requirements EB (single plat DB (double pla	+3 0	$\begin{bmatrix} +1 \\ 0 \end{bmatrix}$ m) =	2 vehicles
Weights:	kg	[lbs]	(1 cm = 0,393 in) (1 kg = 2.2 lbs)
Forces: k Temperature: °			(1 kN = 224.8 lbf) (0° C = 32° F)

Suitable for

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

	Standard	Special 2
Width	190 cm [6'-3"] 4	190 cm [6'-3"] 4
Weight	max. 2000 kg [max. 4400 lbs]	max. 2600 kg [max. 5730 lbs]
Wheel load	max. 500 kg [max. 1100 lbs]	max. 650 kg [max. 1430 lbs]

Clearance profile



Height dimensions

See page 2 for all pit and height dimensions.

Page 11

To be performed by the customer

Page 12 Description

[5-5'']

230 [7'-7''] [7'-7''] [7'-9''] [14'-9''] [14'-9'']

Biggest type



Smallest type

165

- Special system: maximum load for extra charge (maximum load for EB up to 3000 kg [6610 lbs] per place for extra charge).
- 8 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.
- ④ Car width for platform width 230 cm [7'-7"]. If wider platforms are used it is also possible to park wider cars.
- 5 For dividing walls: cutting through 10 x 10 cm [4" x 4"].
- 6 Potential equalization from foundation grounding connection to system (provided by the customer).
- In compliance with DIN EN 14010, 10 cm [4"] 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 (see "load plan" page 7).
- 8 Slope with drainage channel and sump.
- 6 Output that it is a section between pit floor and walls no hollow mouldings/coves are possible. If hollow mouldings/coves are required, the systems must be designed smaller or the pits accordingly wider.
- 60 For convenient use of your parking space and due to the fact that the cars keep becoming longer we recommend a pit length of 540 cm [17'-9"].
- 10 Must be at least as high as the greatest car height + 5 cm [+ 2"].

Height dimensions for garage without door (basement garage)

Page 2 Height dimensions

Page 3 Function Width dimensions without door

Page 4 Width dimensions without door

Ц

1

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

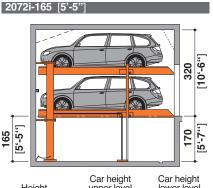
Page 8 Approach Installation

Page 9 Electrical installation

Page 10 Technical data

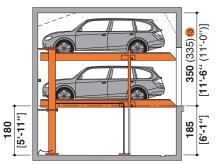
Page 11 To be perfor-med by the customer

Page 12 Description

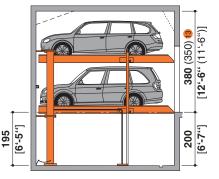


Height	upper level	lower level
320 [10'-6"]	150 [4'-11"]	150 [4'-11'']

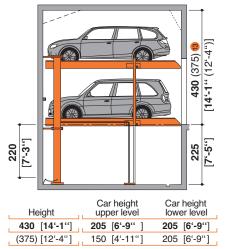
2072i-180 [5'-11"



Height	Car height upper level	Car height lower level
350 [11'-6'']	165 [5'-5"]	165 [5'-5"]
(335) [11'-0"]	150 [4'-11"]	165 [5'-5"]
2072i-195 [6'-5	"]	

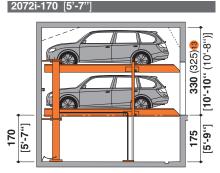


Height	Car height upper level	Car height lower level
380 [12'-6'']	180 [5'-11'']	180 [5'-11"]
(350) [11'-6'']	150 [4'-11'']	180 [5'-11"]
2072i-220 [7'-3	"]	



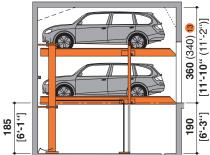
If a higher ceiling height is available higher cars can be parked.

12 Standard type



Height	Car height upper level	Car height lower level
330 [10'-10'']	155 [5'-1"]	155 [5'-1"]
(325) [10'-8"]	150 [4'-11"]	155 [5'-1'']

2072i-185 [6'-1"

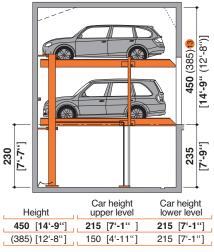


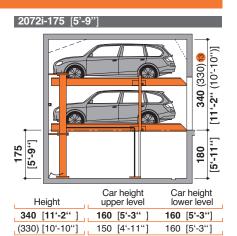
Height	Car height upper level	Car height lower level
360 [11'-10'']	170 [5'-7"]	170 [5'-7"]
(340) [11'-2"]	150 [4'-11"]	170 [5'-7"]
2072i-205 [6'-9]	"]	

[13-1, (11,-10,)] 400 (360) (3 [,,11-,9] [,,6-,9] 205 210

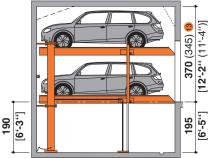
Height	Car height upper level	Car height lower level
400 [13'-1"]	190 [6'-3'']	190 [6'-3'']
(360) [11'-10"]	150 [4'-11'']	190 [6'-3'']

2072i-230 [7'-7"

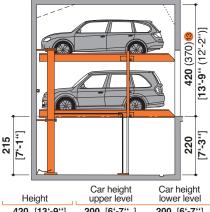




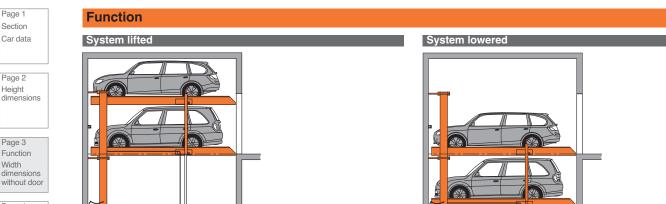
2072i-190 [6'-3"]



Height	Car height upper level	Car height lower level
370 [12'-2'']	175 [5'-9"]	175 [5'-9'']
(345) [11'-4'']	150 [4'-11"]	175 [5'-9"]
2072i-215 [7'-	1"]	







Width dimensions for garage without door (basement garage)

Page 5 Width dimensions without door

Page 1

Section Car data

Page 2 Height dimensions

Page 3 Function Width dimensions

Page 4 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

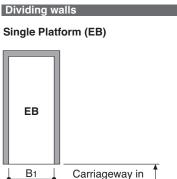
Page 8 Approach Installation

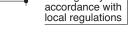
Page 9 Electrical installation

Page 10 Technical data

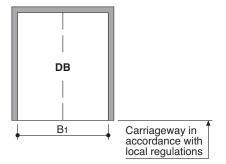
Page 11 To be perfor-med by the customer

Page 12 Description





Double Platform (DB)



460 [15'-1" 490 [16'-1''] 470 [15'-5" 500 [16'-5''] 480 [15'-9" 510 [16'-9"] 490 [16'-1" 520 [17'-1" 500 [16'-5" 530 [17'-5"] 540 [17'-9" 510 16'-9" 520 [17'-1" 550 [18'-1"] 530 [17'-5" 560 [18'-4"] 540 [17'-9"] 570 [18'-8'']

Usable platform width

230 [7'-7" 240 [7'-10"

270 [8'-10"

Usable platform width

250 [8'-2'' 260 [8'-6" B1

260 [8'-6"

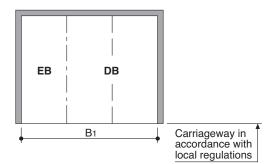
290 [9'-6"

B1

300 [9'-10"]

270 [8'-10"] 280 [9'-2"]

Single and Double Platform (EB + DB) - Example



Usable platform width	B1
230 + 460 [7'-7" + 15'-1"]	750 [24'-7"]
240 + 470 [7'-10" + 15'-5"]	770 [25'-3"]
250 + 480 [8'-2" + 15'-9"]	790 [25'-11"]
250 + 500 [8'-2" + 16'-5"]	810 [26'-7"]
270 + 500 [8'-10"+ 16'-5"]	830 [27'-3'']
270 + 510 [8'-10"+ 16'-9"]	840 [27'-7"]
270 + 520 [8'-10''+ 17'-1'']	850 [27'-11'']
270 + 530 [8'-10"+ 17'-5"]	860 [28'-3'']
270 + 540 [8'-10"+ 17'-9"]	870 [28'-7"]

For parking boxes on the edges and boxes with intermediate walls we recommend our maximum platform width of 270 cm [8'-10"] for single platforms and 540 cm [17'-9"] for double platforms. Problems may occur if smaller platform widths are used (depending on car type, access and individual driving behaviour and capability).

For larger limousines and SUV wider driveways are necessary (in particular on the boxes on the sides due to the missing manoeuvring radius).

Width dimensions for garage without door (basement garage)

Section Car data

Page 1

Page 2 Height dimensions

Page 3 Function Width dimensions without door

Page 4 Width dimensions without door

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

Page 8 Approach Installation

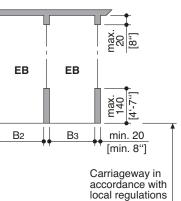
Page 9 Electrical installation

Page 10 Technical data

Page 11 To be perfor-med by the customer

Page 12 Description

H



Columns in pit

Single Platform (EB)

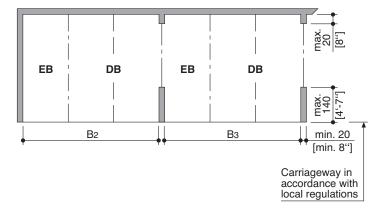
Usable platform width B2 B3 230 [7⁻⁷" 240 [7⁻¹⁰" 255 [8'-4" 245 [8'-0"] 265 [8'-8" 255 [8'-4" 275 [9'-0" 250 8'-2" 265 [8'-8''] 260 [8'-6" 285 [9'-4' 275 [9'-0" 270 [8'-10" 295 [9'-8''] 285 [9'-4'']

		loodi rogulationo	
C	Double Platform (D	В)	
	DB	DB	
			max. 140. [4'-7'']
	B2	B3	min. 20 [min. 8"]
			Carriagoway in

Carriageway in accordance with local regulations

460 [15'-1"]		
	485 [15'-11"]	475 [15'-7"]
470 [15'-5"]	495 [16'-3"]	485 [15'-11"]
480 [15'-9"]	505 [16'-7"]	495 [16'-3"]
490 [16'-1"]	515 [16'-11"]	505 [16'-7"]
500 [16'-5"]	525 [17'-3"]	515 [16'-11'']
510 [16'-9"]	535 [17'-7"]	525 [17'-3"]
520 [17'-1"]	545 [17'-11'']	535 [17'-7"]
530 [17'-5"]	555 [18'-3"]	545 [17'-11"]
540 [17'-9"]	565 [18'-6"]	555 [18'-3"]

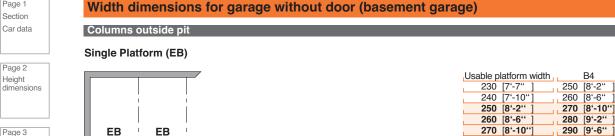
Single and Double Platform (EB + DB) - Example



Usable platform width	B2	B3
230 + 460 [7'-7" + 15'-1"]	745 [24'-5"]	735 [24'-1"]
240 + 470 [7'-10" + 15'-5"]	765 [25'-1"]	755 [24'-9"]
250 + 480 [8'-2" + 15'-9"]	785 [25'-9"]	775 [25'-5"]
250 + 500 [8'-2" + 16'-5"]	805 [26'-5'']	795 [26'-1'']
270 + 500 [8'-10''+ 16'-5'']	825 [27'-1'']	815 [26'-9"]
270 + 510 [8'-10''+ 16'-9'']	835 [27'-5'']	825 [27'-1"]
270 + 520 [8'-10''+ 17'-1'']	845 [27'-9'']	835 [27'-5"]
270 + 530 [8'-10''+ 17'-5'']	855 [28'-1'']	845 [27'-9'']
270 + 540 [8'-10"+ 17'-9"]	865 [28'-5'']	855 [28'-1"]

For parking boxes on the edges and boxes with intermediate walls we recommend our maximum platform width of 270 cm [8'-10"] for single platforms and 540 cm [17'-9"] for double platforms. Problems may occur if smaller platform widths are used (depending on car type, access and individual driving behaviour and capability).

For larger limousines and SUV wider driveways are necessary (in particular on the boxes on the sides due to the missing manoeuvring radius).



Function Width dimensions without door

Page 1

Section Car data

Page 2

Page 3

Page 4 Width dimensions without door

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

Page 8 Approach Installation

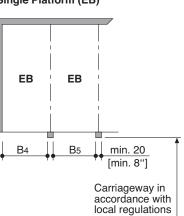
Page 9 Electrical installation

Page 10 Technical data

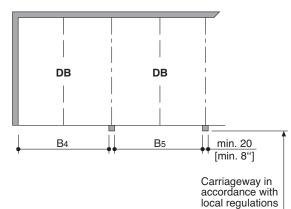
Page 11 To be perfor-med by the customer

Page 12 Description

L



Double Platform (DB)



Usable platform width	B4	B5
460 [15'-1"]	480 [15'-9"]	470 [15'-5"]
470 [15'-5"]	490 [16'-1"]	480 [15'-9"]
480 [15'-9"]	500 [16'-5"]	490 [16'-1"]
490 [16'-1"]	510 [16'-9"]	500 [16'-5"]
500 [16'-5'']	520 [17'-1'']	510 [16'-9'']
510 [16'-9'']	530 [17'-5'']	520 [17'-1'']
520 [17'-1'']	540 [17'-9'']	530 [17'-5'']
530 [17'-5'']	550 [18'-1'']	540 [17'-9'']
540 [17'-9'']	560 [18'-4'']	550 [18'-1'']

B4

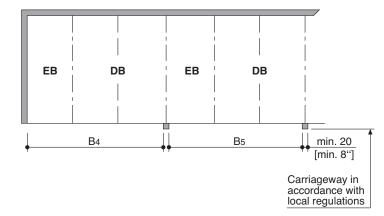
B5

260 [8'-6" 270 [8'-10'']

240 [7'-10"] 250 [8'-2"]

280 [9'-2'']

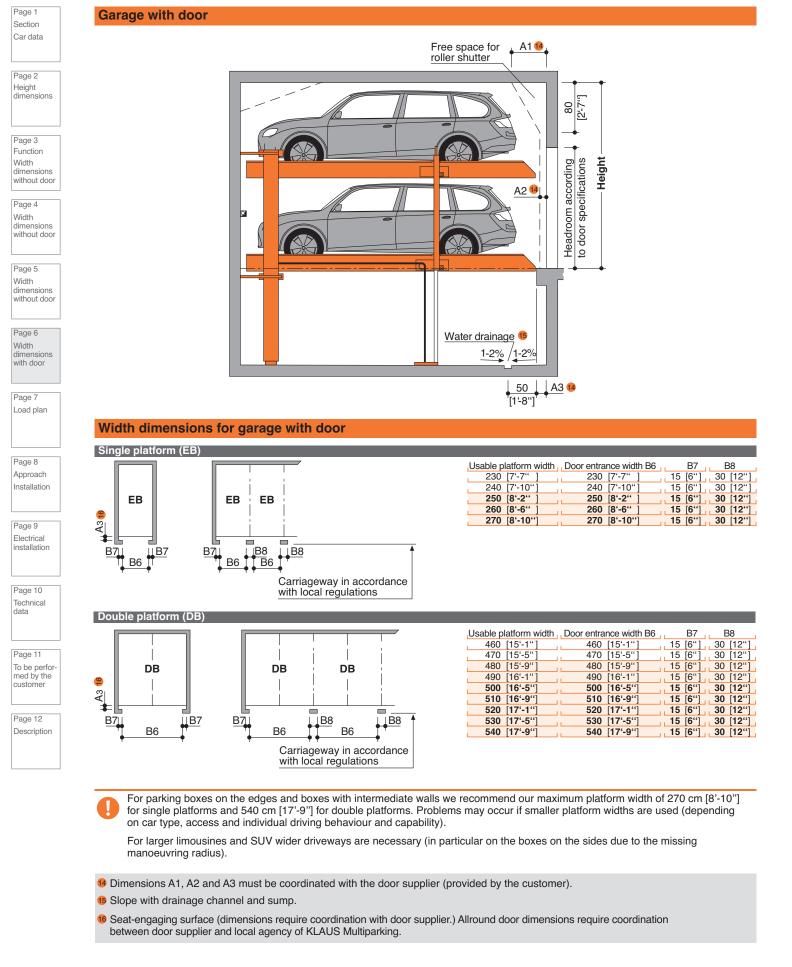
Single and Double Platform (EB + DB) – Example



Usable platform width	B4	B5
230 + 460 [7'-7" + 15'-1"]	740 [24'-3"]	730 [23'-11"]
240 + 470 [7'-10" + 15'-5"]	760 [24'-11"]	750 [24'-7'']
250 + 480 [8'-2" + 15'-9"]	780 [25'-7"]	770 [25'-3"]
250 + 500 [8'-2" + 16'-5"]	800 [26'-3"]	790 [25'-11"]
270 + 500 [8'-10''+ 16'-5'']	820 [25'-11"]	810 [26'-7"]
270 + 510 [8'-10''+ 16'-9"]	830 [27'-2"]	820 [26'-11"]
270 + 520 [8'-10''+ 17'-1'']	840 [27'-7"]	830 [27'-3"]
270 + 530 [8'-10''+ 17'-5'']	850 [27'-11'']	840 [27'-7"]
270 + 540 [8'-10''+ 17'-9'']	860 [28'-2"]	850 [27'-11"]

For parking boxes on the edges and boxes with intermediate walls we recommend our maximum platform width of 270 cm [8'-10"] for single platforms and 540 cm [17'-9"] for double platforms. Problems may occur if smaller platform widths are used (depending on car type, access and individual driving behaviour and capability).

For larger limousines and SUV wider driveways are necessary (in particular on the boxes on the sides due to the missing manoeuvring radius).



Load plan

Platform load in kg

Platform load

EB 2000 kg

EB 2600 kg

EB 3000 kg

DB 2000 kg

DB 2600 kg

Platform load in lbs

Platform load

EB 4400 lbs

EB 5730 lbs

EB 6610 lbs

DB 4400 lbs

DB 5730 lbs

Section Car data

Page 1

Page 2 Height dimensions

Page 3 Function Width dimensions without door

Page 4 Width dimensions without door

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

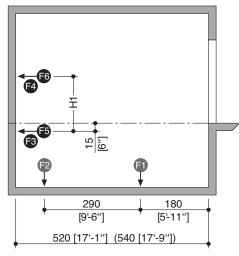
Page 8 Approach Installation

Page 9 Electrical installation

Page 10 Technical data

Page 11 To be performed by the customer

Page 12 Description



F1

+28 –1,7

+36 –2,2

+42 –2,4

+51 --6,7

+67 --8,6

F1

+6,295 -382

+8,093

-495 +9,442 -540

+11,465 -1,506

+15,062 -1,933 F2

+12

+15

+17

+20

+26

F2

+2,698

+3,372

+3,822

+4,496

+5,845

F3

±1

±1,3

±1,5

±1,6

±2,1

F3

±225

±292

±337

±360

±472

F4

±0,8

±1

±1,2

±2.6

±3,4

F4

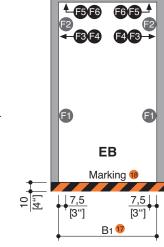
±180

±225

±270

±585

±764



F5

±1,1

±1,4

±1,6

±2

±2,6

F5

±247

±315

±360

±450

±585

F6

±1,1

±1,4

±1,6

±2

±2,6

F6

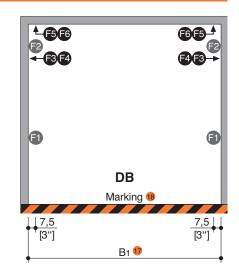
±247

±315

±360

±450

±585



Туре	H1
2072i-165 [5'-5"]	210 [6'-11"]
2072i-170 [5'-7"]	215 [7'-1"]
2072i-175 [5'-9"]	220 [7'-3"]
2072i-180 [5'-11"]	225 [7'-5"]
2072i-185 [6'-1"]	230 [7'-7"]
2072i-190 [6'-3"]	235 [7'-9"]
2072i-195 [6'-5"]	240 [7'-10"]
2072i-205 [6'-9"]	250 [8'-2"]
2072i-215 [7'-1"]	260 [8'-6"]
2072i-220 [7'-3"]	265 [8'-8"]
2072i-230 [7'-7"]	275 [9'-0"]

Units are dowelled to the floor. Drilling depth: approx. 15 cm [6"].

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

The dimensions for the points of support are rounded values. If the exact position is required, please contact KLAUS Multiparking.

17 Dimension B1 see page 3

18 Marking compliant to ISO 3864 (colors used in this illustration are not ISO 3864 compliant)

19 All forces in kN

20 All forces in lbf

Page 1

Section Car data

Page 2 Height dimensions

Page 3

Width

Page 5 Width

Page 6

Page 7 Load plan

Page 8

Page 9

Electrical

Page 10 Technical

Page 11

Page 12 Description

To be performed by the customer

data

installation

Approach Installation

Width dimensions with door

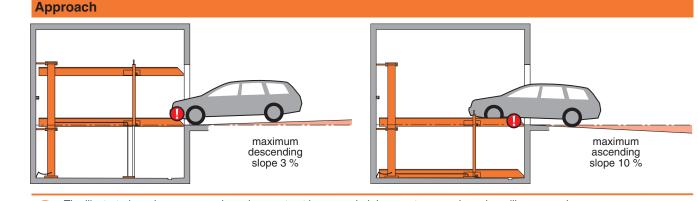
Function

Width dimensions

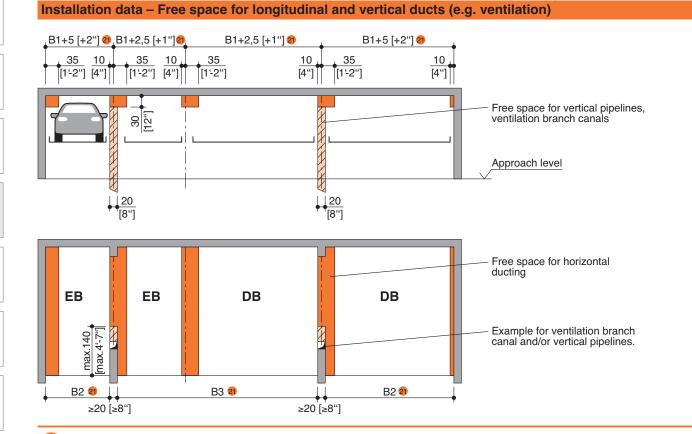
without door Page 4

dimensions without door

dimensions without door



The illustrated maximum approach angles must not be exceeded. Incorrect approach angles will cause serious maneouvring & positioning problems on the parking system for which the local agency of KLAUS Multiparking accepts no responsibility.



Free space only applicable if vehicle is parked forwards = FRONT FIRST and driver's door on the left side.

2) Dimensions B1, B2 and B3 see page 3 to 4

Installation diagram

Page 2 Height dimensions

Page 1

Section Car data

Page 3 Function Width dimensions without door

Page 4 Width dimensions without door

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

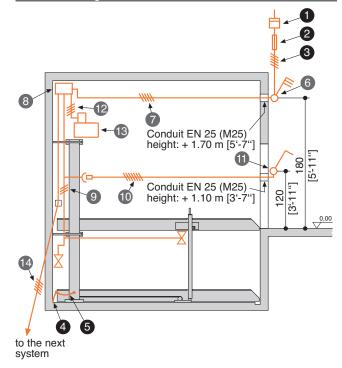
Page 8 Approach Installation

Page 9 Electrical installation

Page 10 Technical data

Page 11 To be performed by the customer

Page 12 Description



۱o.	Qunatity	Description	Position	Frequenc
1	1	Electricity meter	in the supply line	
2	1	Main fuse:		
		3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C)	in the supply line	1 per 3,0 kW unit
		3 x fuse 20 A (slow) or circuit breaker 3 x 20 A (trigger characteristic K or C)	in the supply line	1 per 5,2 kW unit
		2 x fuse 32 A (slow) or circuit breaker 2 x 32 A (trigger characteristic K or C)	in the supply line	1 per 3,7 kW unit
1	L	3 x fuse 25 A (slow) or circuit breaker 3 x 25 A (trigger characteristic K or C)	in the supply line	1 per 4,0 kW unit
3	1	Supply line 5 x 2,5 mm ² (3 PH + N + PE) with marked wire and protective conductor	to main switch	1 per 3,0 kW or 5,2 kW unit
		Supply line 5 x AWG 10 $(2 \text{ PH} + \text{PE})$ with marked wire and protective conductor	to main switch	1 per 3,7 kW unit
1	L	Supply line 5 x AWG 12 (3 PH + PE) with marked wire and protective conductor	to main switch	1 per 4,0 kW unit
4	every 10 m	Foundation earth connector	corner pit floor	
5	1	Equipotential bonding in accordance with DIN EN 60204 from foundation earth connector to the system		1 per system

Electrical data (included in delivery of KLAUS Multiparking)

No.	Description
6	Lockable main switch
7	Supply line 5 x 2,5 mm ² (3 PH + N + PE) with marked wire and protective conductor (for 3,0 kW and 5,2 kW unit)
	Supply line 5 x AWG 10 (2 PH + PE) with marked wire and protective conductor (for 3,7 kW unit)
	Supply line 5 x AWG 12 (3 PH + PE) with marked wire and protective conductor (for 4,0 kW unit)
8	Junction box unit
9	Wiring harness multiparking system
10	Connection cable (operating device)
11	Operating device
12	Control line 4 x 2,5 mm ² [4 x AWG 14] with marked wire and protective conductor
13	Hydraulic unit 3,0 kW/5,2 kW, three-phase current, 230/400 V / 50 Hz 🥺
	Hydraulic unit 3,7 kW, two-phase current, 240 V / 60 Hz
	Hydraulic unit 4,0 kW, three-phase current, 120/208 V / 60 Hz
14	Connection cable to the next system

2 Unit with 5,2 kW only for 2072i DB 2600 kg [5730 lbs]

Technical data

Field of application

By default, the system can only be used for a fixed number of users.

If different users use the system – only on the upper parking spaces – (e.g. short-time parkers in office buildings or hotels) the Multiparking system needs to be adjusted. If required, would you please contact us.

Units

Width dimensions without door

Page 4 Width dimensions without door

Page 1

Section Car data

Page 2

Page 3

Function

Height dimensions

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

Page 8 Approach Installation

Page 9 Electrical installation

Page 10 Technical data

Page 11 To be perfor med by the customer

Page 12 Description Low-noise power units mounted to rubber-bonded-to metal mountings are installed. Nevertheless we recommend that parking system's garage be built separately from the dwelling.

Available documents

- wall recess plans
- maintenance offer/contract
- declaration of conformity
- test sheet on airborne and slid-borne sound

Environmental conditions

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

If lifting or lowering times are specified, they refer to an environmental temperature of $+10^{\circ}$ C [$+50^{\circ}$ F] and with the system set up directly next to the hydraulic unit. At lower temperatures or with longer hydraulic lines, these times increase.

Sound insulation

As per DIN 4109-1 (sound insulation in building construction), Section 9, KLAUS Multiparker are in the range of technical domestic installations (garage systems).

Normal sound insulation:

DIN 4109-1, Section 9, maximum permissible A-rated sound levels in rooms requiring external protection, generated by technical domestic installations and commercial businesses affiliated with the building.

Table 9 shows the values for the maximum permissible A-rated sound levels in rooms requiring external protection, generated by technical domestic installations and business affiliated with the building. As per line 2, the maximum sound level in living rooms and bedrooms must not exceed 30 dB (A). User noises are not subject to the requirements (DIN 4109-1, Section 9).

The following measures are required to comply with this value:

- Sound protection package according to offer/order (KLAUS Multiparking GmbH)
- Minimum sound insulation of the building of min. R'_W = 57 dB (service/item to be provided by the customer)

Increased sound insulation (special agreement):

VDI 4100 (sound insulation in building construction) Assessment and proposals for enhanced sound insulation.

Agreement: Maximum sound level in living rooms and bedrooms 25 dB (A). User noises are not subject to the requirements (see VDI 4100, Paragraph 1, Scope of application – Notes).

The following measures are required to comply with this value:

- Sound protection package according to offer/order (KLAUS Multiparking GmbH)
- Minimum sound insulation of the building of min. R'_{W} = 62 dB (service/item to be provided by the customer)

Note: User noises are basically noises that can be individually influenced by the user of our Multiparking systems. These include, for example, driving on the platform, slamming vehicle doors, engine and brake noises.

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.

Care

To avoid damages resulting from corrosion, make sure to follow our cleaning and care instructions and to provide good ventilation of your garage.

Corrosion protection

See separate sheet regarding corrosion protection.

Railings

If the permissible drop opening is exceeded, railings are to be mounted on the systems. If there are traffic routes next to or behind the installations, railings compliant to DIN EN ISO 13857 must be installed by the customer. Railings must also be in place during construction.

CE Certification

The systems on offer comply with DIN EN 14010 and EC Machine Directive 2006/42/EC. Furthermore, this system underwent voluntary conformity testing by TÜV SÜD.

CEPTNØNKAT 🔶 CERTIFICADO 🔶 CERTIFICAT		Industrie Service
•	Contif	ingto concerning the
0		icate concerning the
AD	exami	nation of conformity
10	Certificate no:	KP 454
CERTII	Certification body:	TÜV SÜD Industrie Service GmbH Zertifizierungsstelle für Produkte der Fördertechnik Gottlieb-Daimler-Str. 7 70794 Filderstadt - Germany
<u>+</u>	Applicant / Certification holder:	KLAUS Multiparking GmbH Hermann-Krum-Str. 2 88319 Aitrach - Germany
-A	Date of application:	2015-06-12
тифи	Manufacturer:	KLAUS Multiparking GmbH Hermann-Krum-Str. 2 88319 Aitrach - Germany
Ë	Product:	Equipment for power driven parking of motor vehicles
o ♦	Туре:	MultiBase 2072i / 2078i EB 2.000 kg, 2.600 kg, 3.000 kg MultiBase 2072i / 2078i DB 2.000 kg, 2.600 kg
	Test laboratory:	TÜV SÜD Industrie Service GmbH Prüfaboratorium für Produkte der Fördertechnik Prüfaberatorium für Produkte der Fördertechnik Gottlieb-Damier-Str. 7 70794 Filderstadt – Germany
•	Date and number of the test report	2016-08-09 KP 454
Ë	mark of conformity:	KP 454
FICA	Test specifications:	- 2006 / 42 / EC, Annex I - DIN EN 14010
E	Validity:	This Certificate is valid until 2021-08-08
♦ CEF	Result:	The equipment fulfills the requirements of the test specifications for the respective scope of application stated in the annex (page 1) of this certificate, keeping the mentioned conditions.
AT	Date of issue:	2016-08-09
ZERTIFIKAT 🔶 CERTIFICATE	C	Achim Janocha

To be performed by the customer

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.

Numbering of parking spaces

Consecutive numbering of parking spaces.

Building services

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

Drainage

For the front area of the pit we recommend a drainage channel, which you connect to a floor drain system or sump ($50 \times 50 \times 20$ cm) [1'.8" \times 1'.8" \times 8"]. 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.

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 themounting work.

Marking

In compliance with DIN EN 14010, 10 cm [4"] 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.

Wall cuttings

Any necessary wall cuttings according to page 1.

Electrical supply to the main switch / Foundation earth connector

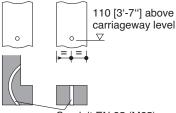
Suitable electrical supply to the main switch must be provided by the customer during installation. The functionality can be monitored on site by our fitters together with the electrician. If this cannot be done during installation for some reason for which the customer is responsible, the customer must 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 [32'-10"]).

Operating device

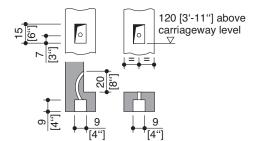
Cable conduits and recesses for operating device (for double wing doors: please contact the local agency of KLAUS Multiparking).

Operating device exposed



Conduit EN 25 (M25)

Operating device concealed / Not available for UL operating device



If the following are not included in the quotation, they will also have to be provided / paid for by the customer:

- Mounting of contactor and terminal box to the wall valve, complete wiring of all elements in accordance with the circuit diagram
- Costs for final technical approval by an authorized body
- Main switch
- Control line from main switch to hydraulic unit

Page 2 Height dimensions

Page 3 Function Width dimensions without door

Page 4 Width dimensions without door

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

Page 8 Approach Installation

Page 9 Electrical installation

Page 10 Technical data

Page 11 To be performed by the customer

Page 12 Description

Description Single platform (EB) and Double platform (DB)

General description

Multiparking system providing independent parking spaces for 2 cars (EB), 2 x 2 cars (DB), one on top of the other each. Dimensions are in accordance with the underlying dimensions of

parking pit, height and width. The parking bays are accessed horizontally (installation deviation ± 1% for correct drainage of platforms).

Due to the special lifting and bearing construction lifting of the doors is not restricted.

Vehicles are positioned on each parking space using wheel stops on the right side (adjust according to operating instructions).

Operation via operating device with hold-to-run-device using master kevs.

The operating elements are usually mounted either in front of the column or on the outside of the door frame.

Operating instructions are attached to each operator's stand.

For garages with doors at the front of the parking system the special dimensional requirements have to be taken into account.

Multiparking system consisting of:

- 2 steel pillars (mounted on the floor)
- 2 sliding platforms (mounted to the steel pillars with sliding bearings)
- 2 platforms
- 1 electro-hydraulic synchronization control system (to ensure synchronous operation of the hydraulic cylinders while lowering and lifting the platform)
- 2 hydraulic cylinders
- 2 rigid supports (connect the platforms)
- 2 chains and pocket wheels
- 2 automatic hydraulic safety valves (prevents accidental lowering of the platform while accessing the platform)
- Dowels, screws, connecting elements, bolts, etc.
- The platforms and parking spaces are end-to-end accessible for parking!

Platforms consisting of:

- Platform base sections
- Adjustable wheel stops
- Canted access plates
- Side members
- Central side member [only DB]
- Cross members [DB long and short cross members]
- Safety railings along the upper and lower platform (if required)
- Screws, nuts, washers, distance tubes, etc.

Hydraulic system consisting of:

- Hydraulic cylinder
- Solenoid valves
- Safety valves
- Hydraulic conduits
- Screwed joints
- High-pressure hoses
- Installation material

Electric system consisting of:

- Operating device (Emergency Stop, lock, 1 master key per parking space)
- Control unit with wiring harness and sensors

Hydraulic unit consisting of:

- Hydraulic power unit (low-noise, installed onto a console with a rubber-bonded-to-metal mounting)
- Hydraulic oil reservoir
- Oil filling
- Internal geared wheel pump
- Pump holder
- Clutch
- AC-motor
- Junction box unit with contactor, motor protection switch and control fuse
- Test manometer
- Pressure relief valve
- Hydraulic hoses (which reduce noise transmission onto the hydraulic pipe)

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.

Description

Page 1 Section Car data

Page 2 Height dimensions

Page 3 Function Width dimensions without door

Page 4 Width dimensions without door

Page 5 Width dimensions without door

Page 6 Width dimensions with door

Page 7 Load plan

Page 8 Approach Installation

Page 9 Electrical installation

Page 10 Technical data

Page 11 To be perfor med by the customer

Page 12