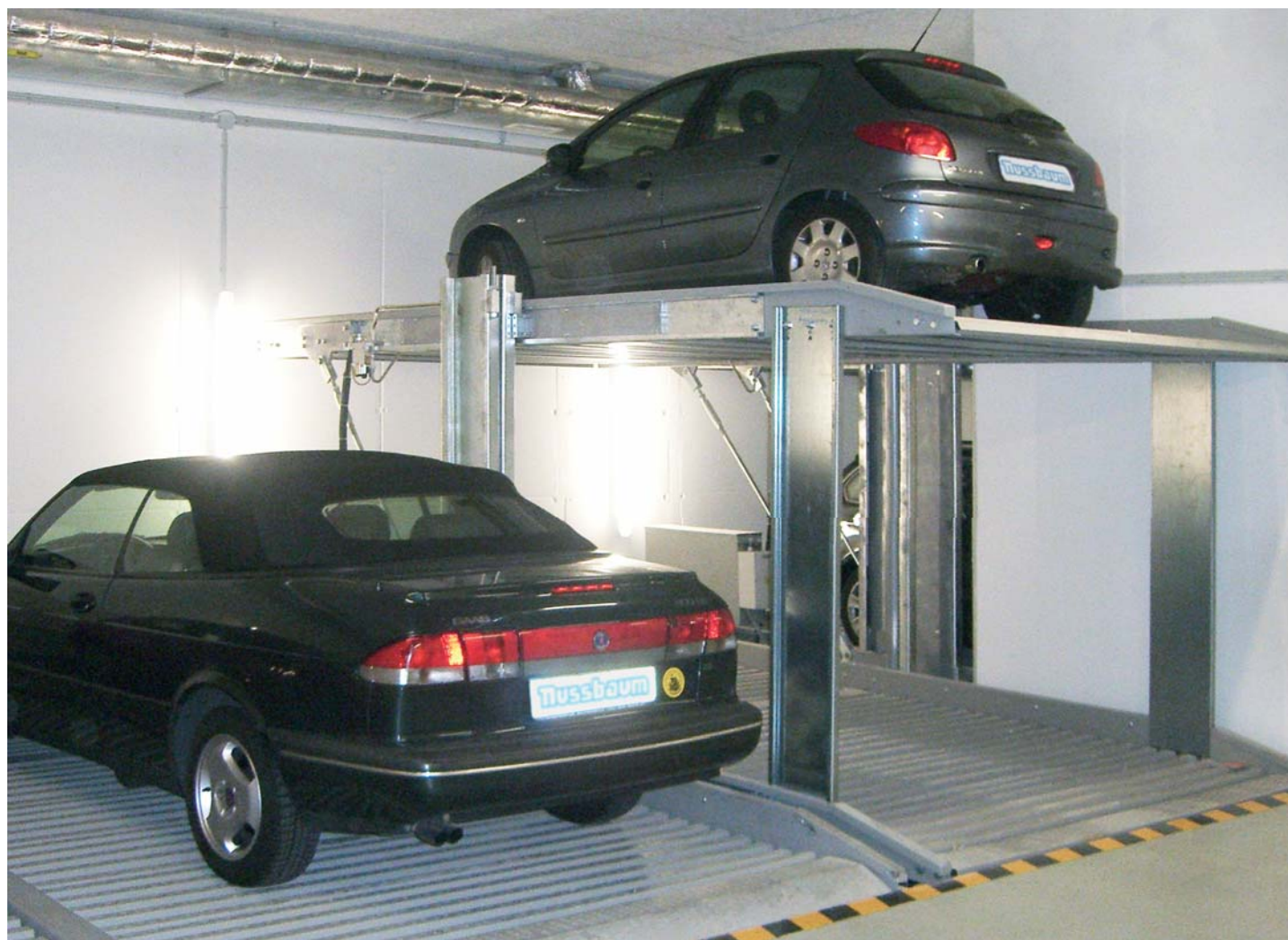


# Nussbaum

BY CAR STACKERS INTERNATIONAL

## LIFTPARKER N4402-2,6t

THE IDEAL SOLUTION FOR CARS UP TO 2600 KG WEIGHT



CAR STACKERS

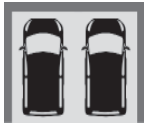
### SHORT DESCRIPTION

INDEPENDENT PARKING ON 2 LEVELS  
LATERAL COLUMNS  
HORIZONTALLY ACCESSIBLE PLATFORMS  
SINGLE (2 CARS) AND DOUBLE SYSTEM (4 CARS)  
LOAD PER PARKING SPACE:  
UP TO 2.600 KG

### APPLICATION

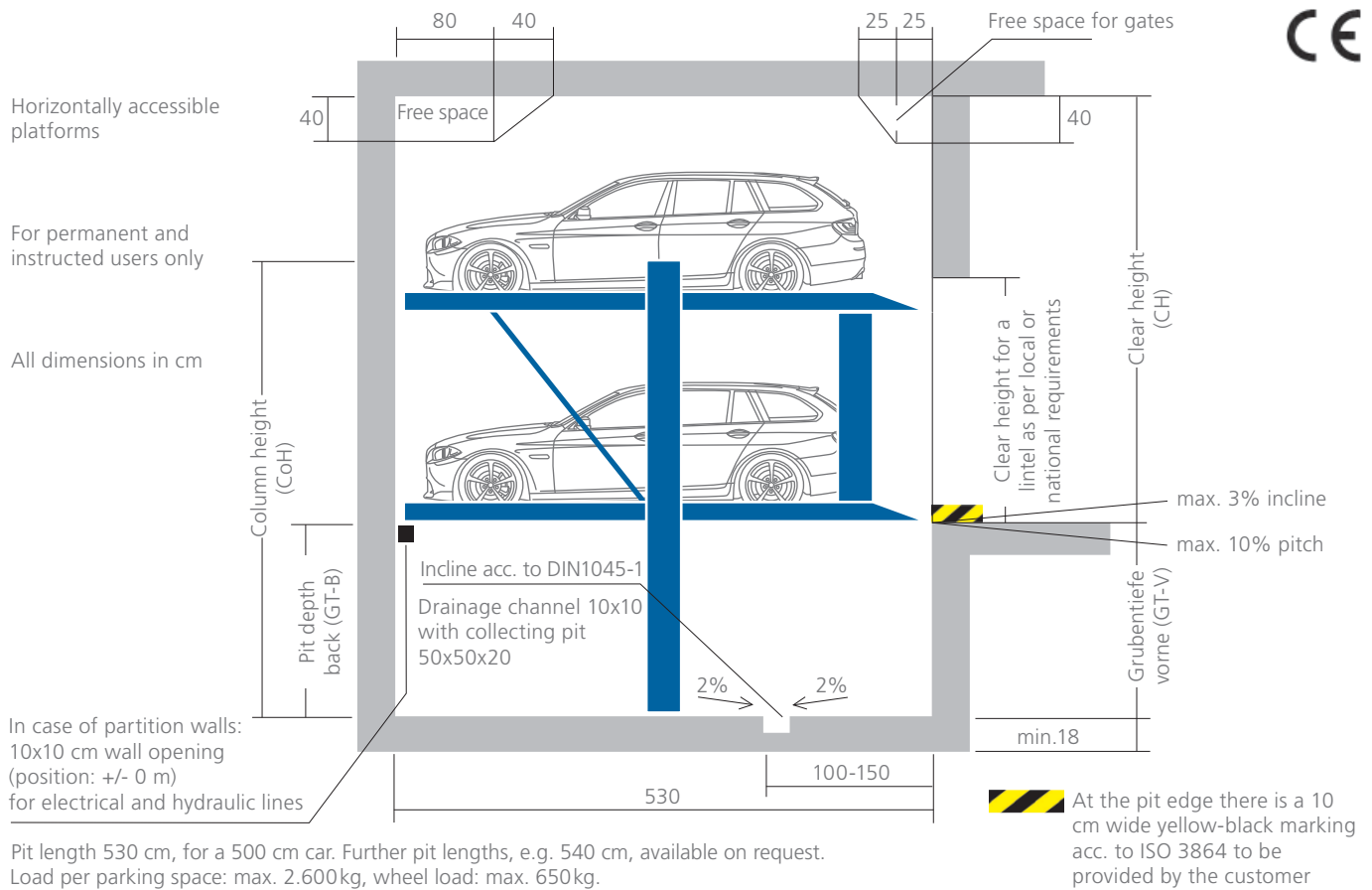
FOR INTERIORS, WITH PIT  
ONE AND MULTI-FAMILY DWELLINGS  
HOTELS AND OFFICE BUILDINGS  
CONDOMINIUMS AND COMMERCIALS  
ABOVEGROUND AND READYMADE GARAGES  
FOR PERMANENT USERS ONLY

LIFTPARKER SERIES

S-system  
for 2 carsD-system  
for 4 cars

## NOTE

The total height of the car including roof rail and antenna fixture must not exceed the maximum car height mentioned in the table below. Standard cars do not feature sport equipment (e.g. spoiler, etc.).



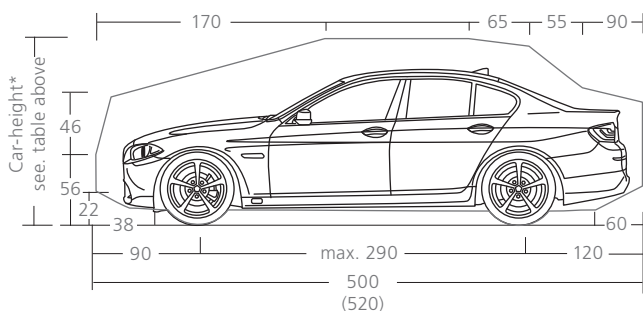
PIT DEPTH FRONT (GT-F)	PIT DEPTH BACK (GT-B)	CLEAR HEIGHT (CH)	COLUMN HEIGHT (CoH)	CAR HEIGHT BELOW		CAR HEIGHT ABOVE	
				S-SYSTEM	D-SYSTEM*	S-SYSTEM	D-SYSTEM
170	165	from 325	375	150	150 / 148	from 150	from 150
180	175	from 330	390	155	155 / 153	from 150	from 150
185	180	from 340	405	165	165 / 163	from 150	from 150
190	185	from 345	420	170	170 / 158	from 150	from 150
200	195	from 355	435	180	180 / 178	from 150	from 150
210	205	from 365	455	190	190 / 188	from 150	from 150
220	215	from 375	475	200	200 / 198	from 150	from 150
225	220	from 380	485	205	205 / 203	from 150	from 150
260	255	from 415	555	240	—	from 150	—

In case higher clear height is available it is possible to park correspondingly higher cars on the upper platform.

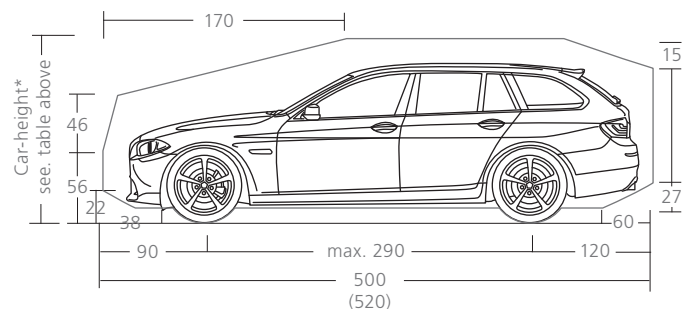
\* In case of parking space widths of 255 cm or more, the car-height below is reduced by 2 cm.

Other dimensions are available on request.

## VEHICLE DATA: STANDARD CAR



## VEHICLE DATA: STANDARD ESTATE CAR





## WIDTH DIMENSIONS FOR GARAGES

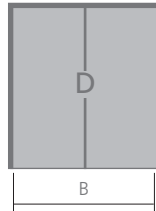
All dimensions in cm. All dimensions are minimum dimensions. Advice for planning and tendering: Generally masonry and concrete works are to be conducted according to the German norm VOB/C (DIN 18330 and DIN 18331). In the mentioned norm are pointed the tolerances that are to be fulfilled according to DIN 18202. In this norm are defined the maximum permissible dimension variations as exceedance and shortfall of the nominal size. The nominal size should be planned in order to meet the minimum dimensions necessary for the parking system.

### PARTITION WALLS

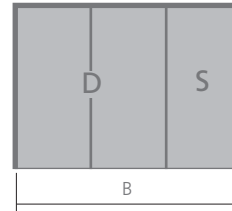
Single system for 2 cars



Double system for 4 cars



Double system + single system for 6 cars

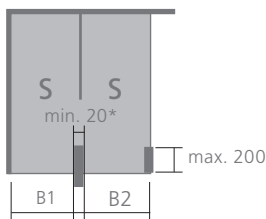


Driving lane width  
acc. to country specific regulations.

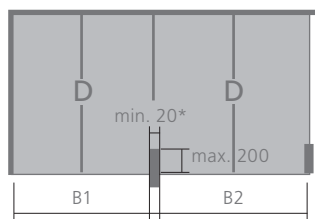
CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B
230	260	460	490	460+230	750
		470	500	•	
240	270	480	510	480+240	780
		490	520	•	
250	280	500	530	500+250	810
		510	540	•	
260	290	520	550	520+260	840
		530	560	•	
270	300	540	570	540+270	870
275	305	550	575	550+275	885

### BUILDING PILLARS INSIDE AS WELL AS IN FRONT OF THE PIT

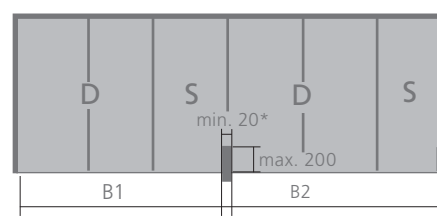
Einzelanlage für 2 Pkw



Doppelanlage für 4 Pkw



Doppelanlage + Einzelanlage für 6 Pkw



Driving lane width  
acc. to country specific regulations.

CLEAR PLATFORM WIDTH	B1	B2	CLEAR PLATFORM WIDTH	B1	B2	CLEAR PLATFORM WIDTH	B1	B2
230	255	245	460	485	475	460+230	745	735
			470	495	485	•		
240	265	255	480	505	495	480+240	775	765
			490	515	505	•		
250	275	265	500	525	515	500+250	805	795
			510	535	525	•		
260	285	275	520	545	535	520+260	835	825
			530	555	545	•		
270	295	285	540	565	555	540+270	865	855
275	300	290	550	575	565	550+275	880	870

\* Building supports from 20cm width: no restrictions on the clear platform width according to the specifications in the charts.

• Intermediate stages can be combined at will.

Note: the dimensions reported do not include the space necessary for the power unit.

1–3 systems: 115 x 25 x 60 cm

During the planning phase please add the dimensions for the power unit incl. control cabinet.

4–5 systems: 115 x 25 x 75 cm

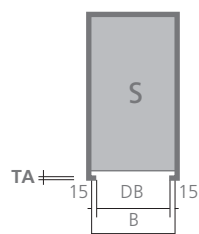
## WIDTH DIMENSIONS FOR GARAGES WITH GATES

All dimensions in cm. All dimensions are minimum dimensions. Advice for planning and tendering: Generally masonry and concrete works are to be conducted according to the German norm VOB/C (DIN 18330 and DIN 18331).

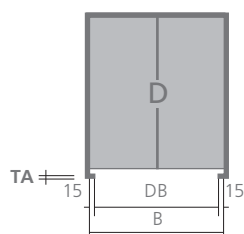
In the mentioned norm are pointed the tolerances that are to be fulfilled according to DIN 18202. In this norm are defined the maximum permissible dimension variations as exceedance and shortfall of the nominal size. The nominal size should be planned in order to meet the minimum dimensions necessary for the parking system.

### SINGLE AND DOUBLE GARAGE

#### Single system for 2 cars



#### Double system for 4 cars



TA = seat engaging

surface for gates.

Dimensions to be

agreed on site with

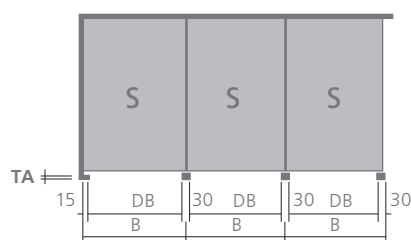
gate manufacturer.

Driving lane width  
acc. to country specific  
regulations.

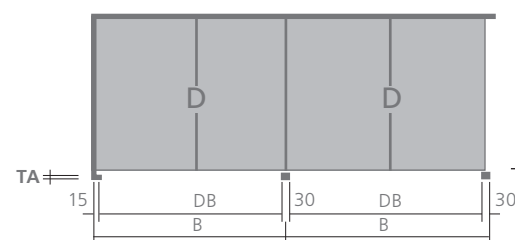
CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB
230	260	230	460	490	460
			470	500	470
240	270	240	480	510	480
			490	520	490
250	280	250	500	530	500
			510	540	510
260	290	260	520	550	520
			530	560	530
270	300	270	540	570	540
275	305	275	550	580	550

### GARAGES WITH SINGLE AND DOUBLE GATES

#### Single system for 2 cars



#### Double system for 4 cars



Driving lane width  
acc. to country specific  
regulations.

CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB
230	260	230	460	490	460
			470	500	470
240	270	240	480	510	480
			490	520	490
250	280	250	500	530	500
			510	540	510
260	290	260	520	550	520
			530	560	530
270	300	270	540	570	540
275	305	275	550	580	550

Note: the dimensions reported do not include the space necessary for the power unit.

1–3 systems: 115 x 25 x 60 cm

During the planning phase please add the dimensions for the power unit incl. control cabinet.

4–5 systems: 115 x 25 x 75 cm



## STANDARD FEATURES – IN THE SCOPE OF DELIVERY

### NOTE

We suggest periodical maintenance, care and cleaning. Take advantage of NUSSBAUM maintenance agreements.

### COMPONENT PARTS

**Single system:** consisting of 2 Platforms, 2 packed columns with hydraulic cylinders, lifting slide and hydraulic block, 2 rigid pillars aside platforms

and/or:

**Double system:** consisting of 4 Platforms, 2 packed columns with hydraulic cylinders, lifting slide and hydraulic block, 2 rigid pillars aside platforms.



Platforms with sidewalls and driving sheets made of trapezoidal sheet.

### DIMENSIONS OF THE SYSTEM

#### Standard system

Parking space length: 500 cm

Parking space width: 230 cm (for max. 190 cm wide cars)

Pit depth: 170/165 cm.

Load per parking space: 2.600 kg.

### KEY SWITCH



Control unit composed of key-switch with Emergency-off in dead-man's control and with cabling to the hydraulic power unit.

### HYDRAULIC POWER UNIT INCL. ELECTRICAL SWITCH BOX

Power unit „Silencio“ - 6 kW



With hydraulic canalization and cabling to the main control switch. (The under oil unit is not loud thanks to the motor-pumps-combination that absorbs sound and insulates from noise). Delivery includes electrical switch box.

Measurements of the power unit:

1–3 systems: 115 x 25 x 60 cm

4–5 systems: 115 x 25 x 75 cm.

The power unit will be placed in the pit between 2 systems on an approx. 2 m high pillar or, if there is no space available, it will be fastened to the wall. In case of single installations we can also optionally deliver a mobile power unit, installed on the lower platform, on its front left side.

### CORROSION PROTECTION

#### C3-Line

For Regions with average snowfall and humidity levels (standard in Germany).

#### C2-Line

Recommended only for regions with small or no snowfall and low humidity levels.

### ELECTRICAL INSTALLATION

For a list of services and interfaces please see the respective table in this brochure.

### DOCUMENTATION

Brief operating instructions (fastened to the control unit), documentation (test book and operating instructions).

### SAFETY DEVICES

- Synchronization unit to guarantee synchronous run even in case of irregular load distribution.
- Wedge to help position the vehicle.



- Safety device to avoid lowering in case of pipeline rupture.
- Fastening of the parking system and hydraulic power unit with stud-bolts, electrical cabling fastened with impact dowels.
- Handrails on the platforms where necessary to avoid danger of falling down from the system.

#### Note:

- Safety fences against shear and crushing points are a priority and must be provided by the customer.
- Hydraulic package „Parallelbetrieb“: Symultaneous lowering of 2 or more systems per power unit with appropriate pump capacity.

## OPTIONS AND EXTRA EQUIPMENT – EXAMPLES

### NOTE

We suggest periodical maintenance, care and cleaning. Take advantage of NUSSBAUM maintenance agreements.

### DIMENSIONS OF THE SYSTEM

Parking space lengths: 510 to 540 cm  
 Parking space widths: 240 to 270 cm  
 (S-system up to 350 cm as Barrier free version, by 10 cm deeper pit).  
 Parking space heights: 165 to 205 cm  
 Pit depths: 185/180 to 260/255 cm.

Fastening of the parking system with chemical anchors in case of heightened foundation requirements or sound insulation.

### VEHICLE WEIGHT

Higher load per parking space  
 S and D-system: up to 2.600 kg.

### BERLIN CONTROL UNIT/ FIRE BRIGADE



Berlin control unit with weatherproof casing and pillar

- Control unit consisting of a lockable key switch (key can be taken off only in the basis position) with emergency-off in dead-man's control. Lifting and lowering by using the respective button.
- Weatherproof casing for the key switch.
- Supporting pillar for the key switch.

### DRIVING SHEETS



Upper platforms with Aluminium-bulb plates driving sheets and special driving wedge to help position the vehicle.

### EXTRA SOUND INSULATION



Sound insulation hood for the power unit

### Airborne noise package

For the power unit to reduce the airborne noise.

### CORROSION PROTECTION

C4-Line: driving sheets powdered on both sides

For regions with highly corrosive humidity levels.

### HYDRAULIC

- HVLP 32-330 oil for extreme temperature variations.
- Heated hydraulic power unit.

### GARAGE GATES' INSTALLATION

Ramp if doorjambs are missing for the installation of the door slide rails. The pit must then be at least 535 cm long.

### CATWALK



Catwalk on trapez. sheet for more walking comfort

Catwalk on trapezoidal sheet flooring  
 Positioned on the left side of the parking space. 1,5 mm galvanized sheet, coined surface area. The catwalk is bolted to the driving sheet.

### UPPER PLATFORM

- Even drive-on instead of drive-on ramp to allow a more comfortable entrance (this means a loss by 8 cm in the car-height below).

## SERVICES TO BE PROVIDED BY THE CUSTOMER AND PLANNING INDICATIONS

During the planning phase please observe and comply with the following notes!

### SERVICES TO BE PROVIDED BY THE CUSTOMER

#### Safety fences

Safety fences acc. to DIN EN ISO 13857 must be provided by the customer.

#### Parking spaces' numeration

For the allocation of the parking spaces we suggest our customers to numerate the parking spaces.

#### Noise abatement measures

The compliance with these measures must be carried out by the customer acc. to norm DIN 4109: „Sound insulation in building construction“.

#### Lighting

To be carried out by the customer acc. to DIN 67528: „Lighting for parking areas and indoor car parks“.

#### Pit-foundation

To be carried out by the customer acc. to the specifications in this brochure.

#### Electrical installation

Prior to starting the assembly the customer must provide a lockable main control switch out of the system/pit and close to the power unit. Electrical services to be provided by the customer acc. to this brochure's spec.

#### Installation requirements

The compliance with installation requirements acc. to quotation.

#### Drainage

Drainage channel 10 cm x 10 cm with collecting pit 50 cm x 50 cm x 20 cm acc. to this brochure's spec to be carried out by the customer.

#### Fire protection

The customer must agree upon the fire protection requirements and the required measures with the local fire department and realise them.

#### Marking

The customer must provide a 10 cm wide yellow-black marking on the front pit edge according to the norm ISO 3864.

#### Wall openings

In case of partition walls the customer must realise a 10 cm x 10 cm wall opening for hosting hydraulic and electrical cables.

#### Building permit

The customer must apply for and get the required permits in order to allow the installation of the parking system.

#### Control unit

The customer must make sure that a plan surface of (L x W) 50 cm x 20 cm for the installation of the control unit is directly close to the power unit and out of the platforms' moving area.

### PLANNING INDICATIONS

#### Parking space width and driving lanes

While planning the parking space and driving lane dimensions please observe and comply with the local/national prescriptions for the Garages' construction. For more parking comfort we suggest you to plan parking spaces of at least 250 cm width.

#### Group of users

Our parking systems are conceived for a permanent and instructed group of users.

#### Maintenance and care

We suggest a timely conclusion of a maintenance agreement.  
We suggest also to perform maintenance, care and cleaning at regular time intervals.

#### EG-Machinery directive

Our parking systems comply with the EG-Machinery directive and are CE certified according to the norm DIN EN 14010.

#### Ramps' inclination

Ramps leading to garages shall not have more than 15% inclination.

#### Modifications

The company Otto Nußbaum GmbH & Co. KG reserves the right to make dimensional, design and technical modifications.