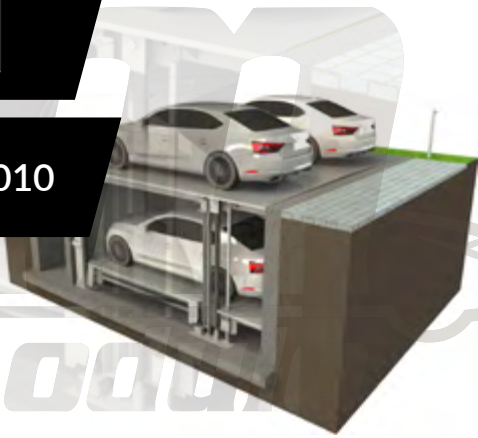




EN 14010



# PARKER-O100

## Independent parking platform

A parking system offering two (SINGLE version) or four (DUAL version) parking spaces, suitable for private parking lots, residential and office buildings or hotel spaces. When the control panel is activated with a dedicated key, the platform moves up and down on a "hold to run" basis. Parking is done in an independent manner. The low side profiles, the smooth ramp and the adjustable wheel rebound allow for easy access to the platform and for adjusting the optimal parking position.

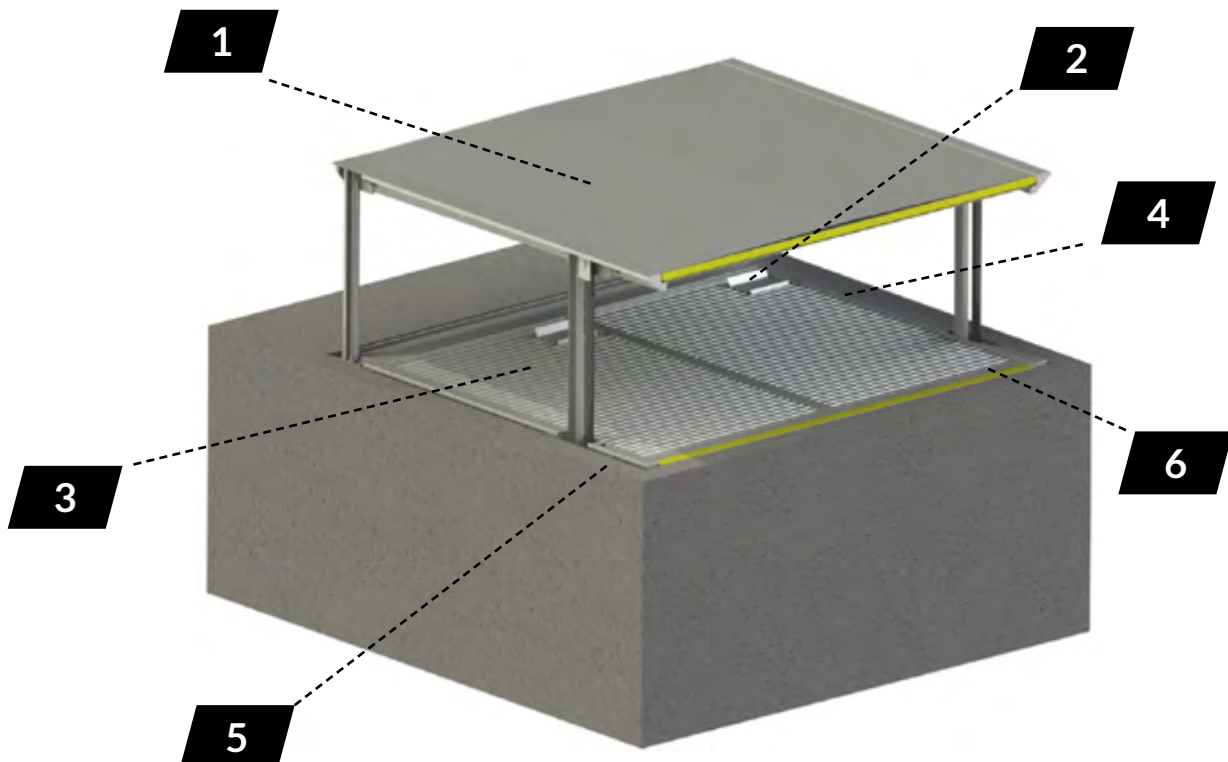
### DESCRIPTION OF THE DEVICE



Lowered position



Raised position



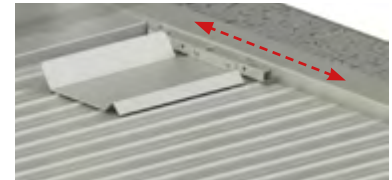
## 1 Diamond - blade plate

Floor with very low and densely spaced anti-slip protrusions. The height of the protrusions are **2mm**, making it super convenient in any footwear.



## 2 The adjustable wheel stop

Allows you to utilize all available bay space, thus parking a wide range of vehicles.



## 3 Curved profile

High standard anti-slip floor. Convenient in any footwear.



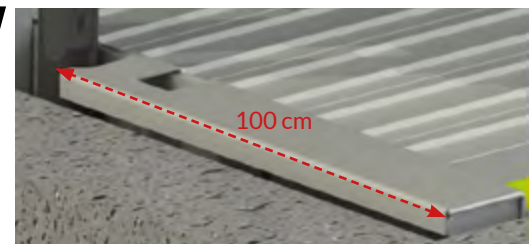
## 4 Lowered lateral thresholds

The low threshold allows the car door to open freely, exceeding the dimensions of the system. Thanks to the low threshold, using the bottom platform is just as comfortable as using the top platform.



## 5 Reinforced and lowered ramp thresholds

The threshold allows the vehicle's wheels to move over it, increasing maneuvering space without damaging bumpers, tires or rims.



## 6 Smooth platform ramp

Threshold-free platform with smooth entry. More convenient passage for people, no risk of tripping or slipping, easier movement of vehicles.



**Hydraulic system:** Hydraulic elements are attached to the platform in a way that increases comfort of use. The acoustic performance was improved by replacing the standard plastic mounts with vibration-damping metal-rubber clamps.



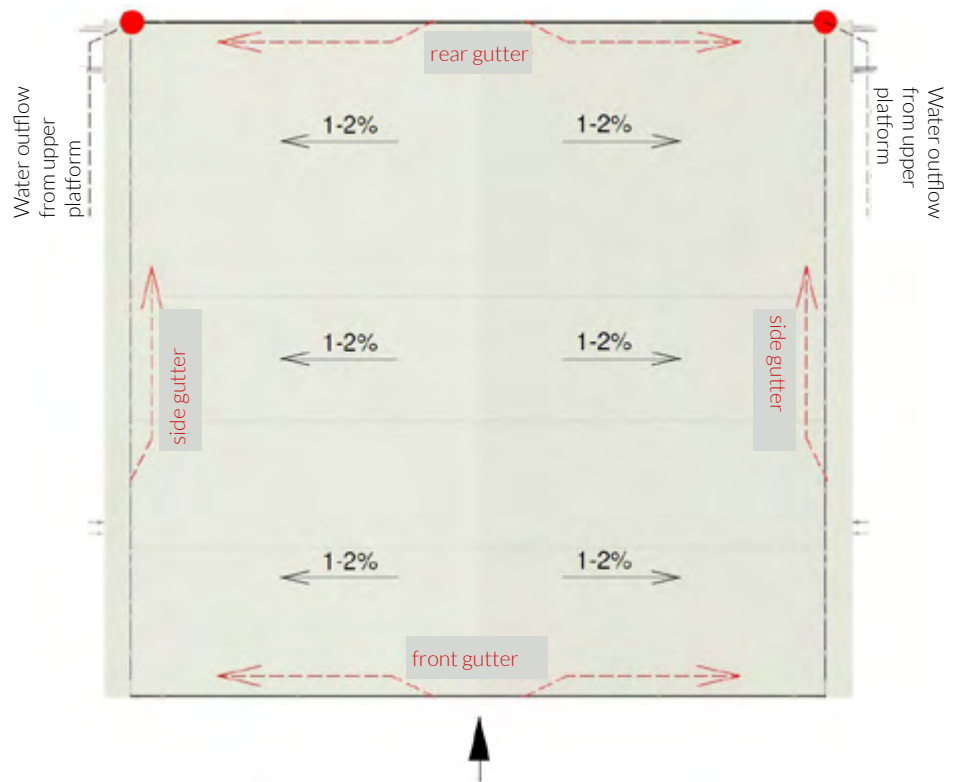
**Chains:** The chains used in the Modulo Parker O-100 parking system have a safety factor increased of four times above the most unfavorable platform load case.

## DESCRIPTION OF UPPER PLATFORM DRAINAGE (WITHOUT ARRANGEMENT)

Water runoff from the upper platform is accomplished by a sloping floor and then gutters spaced around the upper platform.

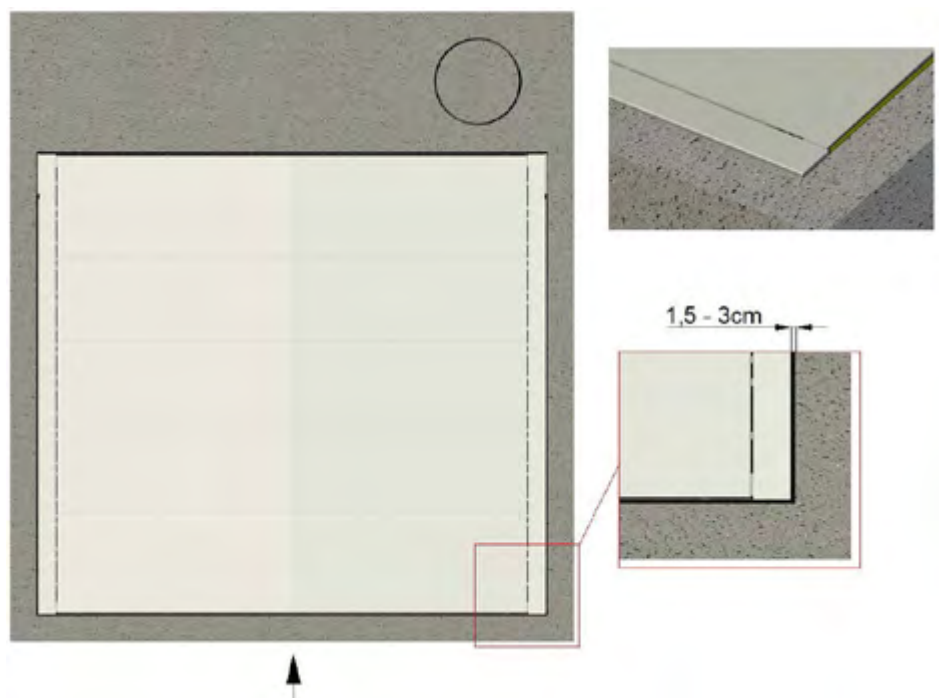
Drainage through gutters prevents water from running off and dripping onto the user while climbing up and out from under the platform.

The system drains water in both raised and lowered positions.

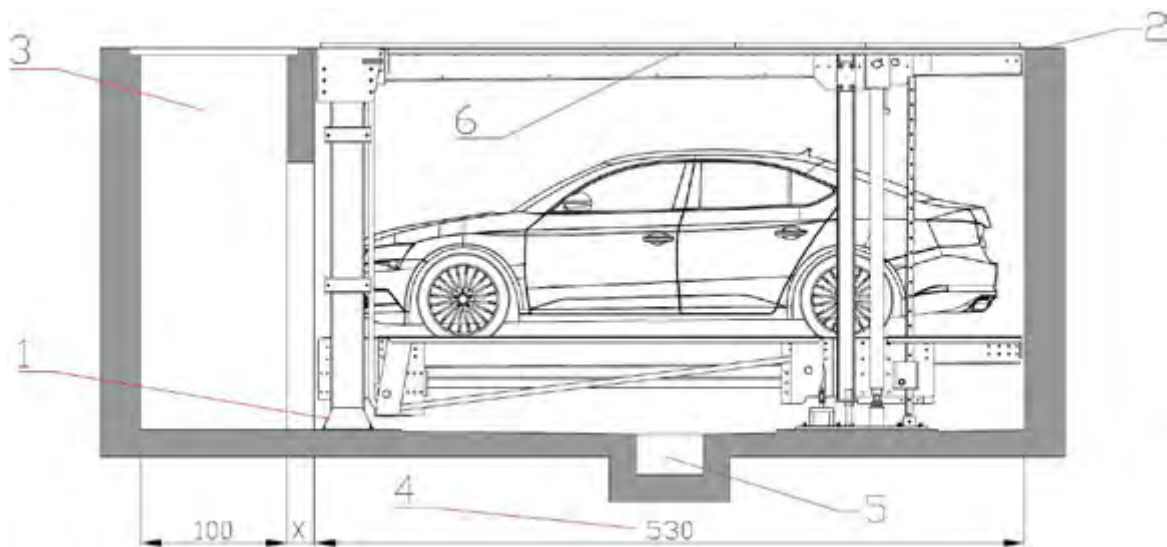


## POST-ASSEMBLY GAPS

Gaps around the platform. A trough made in zero tolerance was used as the basis for determining the gaps.



## TECHNICAL DESCRIPTION



1. Grounding for each parking platform (scope to be executed by the customer).
2. Yellow and black warning strip (compliant with ISO 3864) with a width of 10 cm at the entrance to the platform (scope to be executed by the customer).
3. Technological shaft with stairs, protected by a cover. The location of the hydraulic supply in the option outside the platform is additionally designed for ventilation executed by the customer.
4. The length of the bay should be:  
530 cm for cars up to 500 cm long  
It is possible to produce special units in custom lengths (in this case, we recommend that you consult your local regulations regarding the dimensions of parking spaces) or to fit a standard unit in a bay of a different design after consulting this with Modulo.
5. The surface underfoot should be flat and leveled. Prevent flooding of the trough with gradients of 1-2%, outflow from the common trench. Additional drainage around the system to prevent water flooding from ground level. (Scopes executed by the customer).
6. Upper platform can be arranged by the customer. The platform can be lined with e.g. sand/grass, sand/marble etc. The weight of the covering automatically limit the permissible weight of the parked vehicles on the upper platform.  
Maximum load capacity of the upper platform without vehicle parking option  $180\text{kg/m}^2$ . The option with maximum load capacity, after additional agreement on design modifications, allows to use the upper platform for parking vehicles in the lower position under certain conditions.



**For snow load data for the system, see next page.**



**Leave the system in the lower position after parking!**

## LOADS PER PARKING SPACE

Load capacity of the PARKER-O base version

upper platform 2.6 t  
lower platform 2.2 t

Countries with snow (weight in kg)

Countries without snow (weight in kg)

PLATFORM	WEIGHT	WEIGHT/WHEEL
UPPER	2200 kg	550 kg
LOWER	2200 kg	550 kg

PLATFORM	WEIGHT	WEIGHT/WHEEL
UPPER	2600 kg	650 kg
LOWER	2200 kg	550 kg

Load capacity of the PARKER-O base version

upper platform 2.6 t  
lower platform 2.6t

Countries with snow (weight in kg)

Countries without snow (weight in kg)

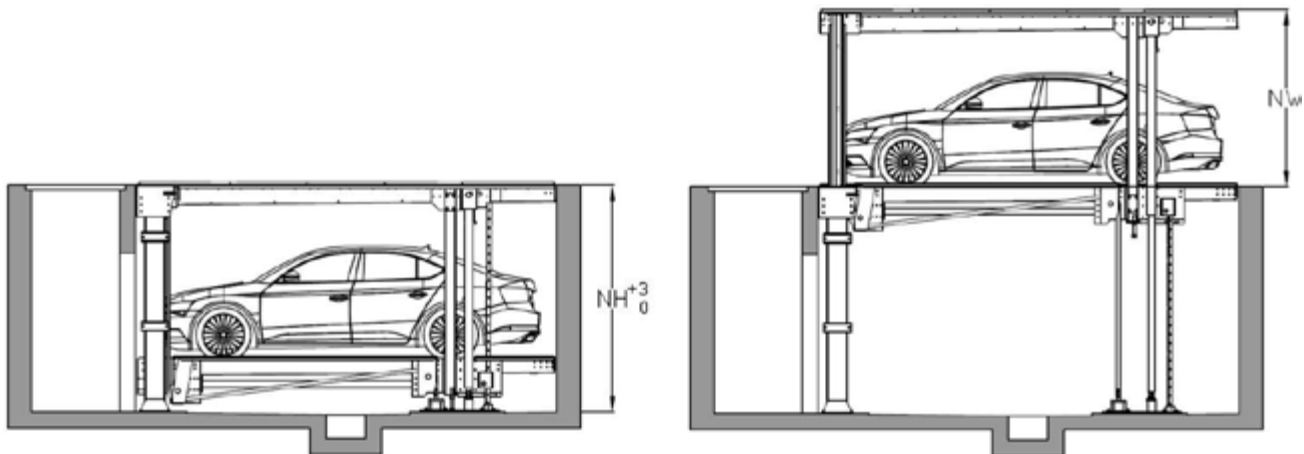
PLATFORM	WEIGHT	WEIGHT/WHEEL
UPPER	2200 kg	550 kg
LOWER	2600 kg	550 kg

PLATFORM	WEIGHT	WEIGHT/WHEEL
UPPER	2600 kg	650 kg
LOWER	2600 kg	650 kg



**Snow bearing capacity applies to a snow depth of 20cm.**  
**If the depth is exceeded, the snow should be removed.**

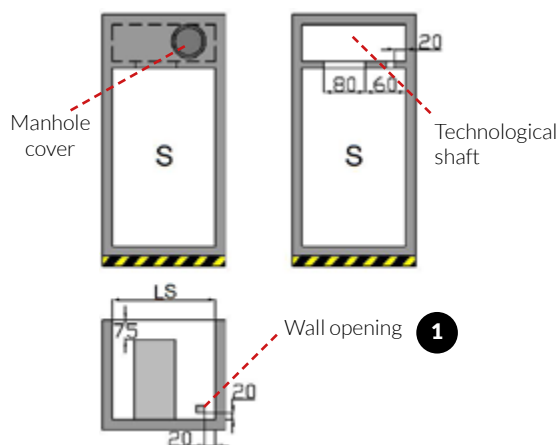
## DIMENSIONS OF GARAGE SPACES



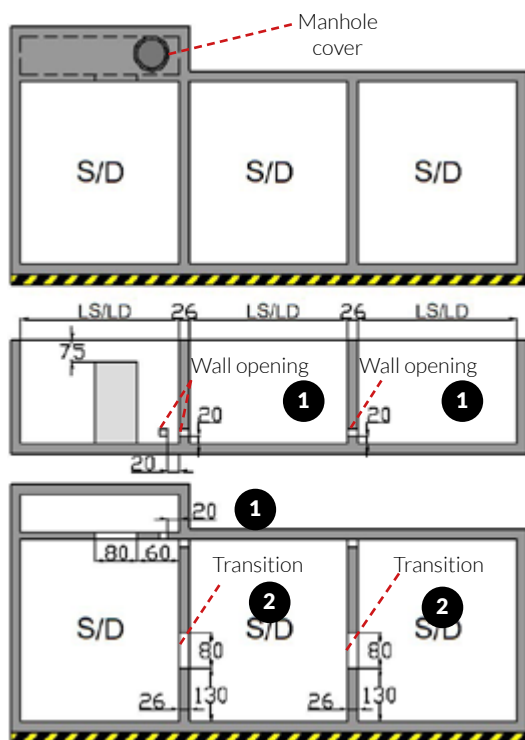
NH	NW	LOWER CAR HEIGHT	UPPER CAR HEIGHT
235	173	150	160
245	183	160	160
255	193	170	160
265	203	180	160
275	213	190	160
285	223	200	160

The maximum height of a vehicle parked on the lower platform is directly derived from the depth of the bay.

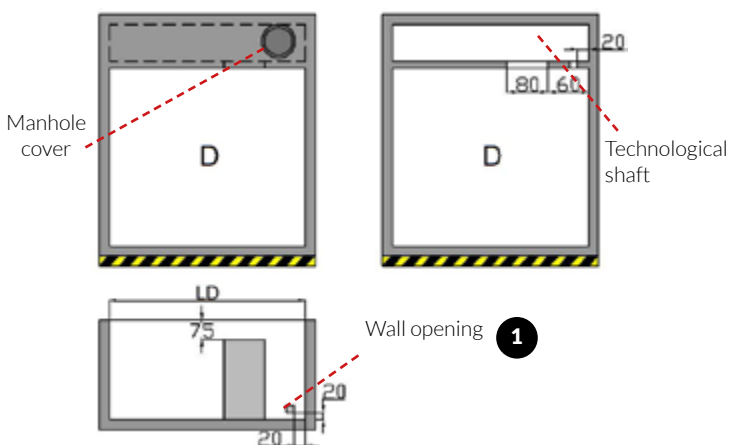
**SINGLE-TYPE PLATFORM**  
(allows parking 2 cars)



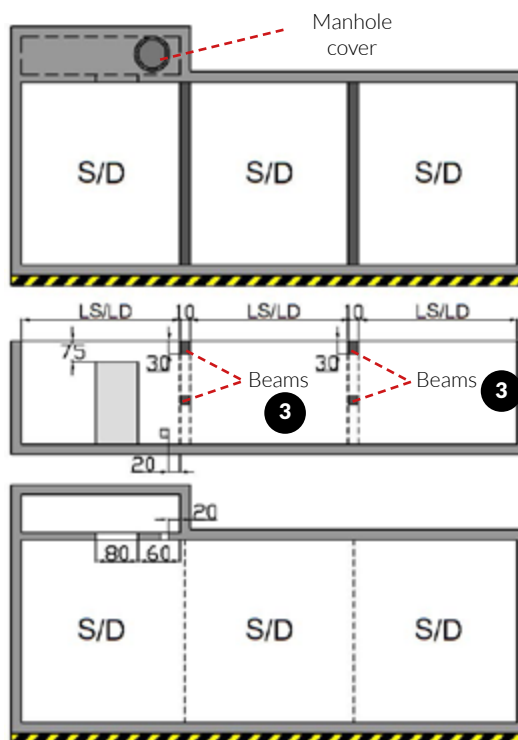
Serial arrangement (with partitions)



**DUAL-TYPE PLATFORM**  
(allows parking 4 cars)



Serial arrangement (without partitions)



- 1- Holes for running the hydraulic installation (central supply), partition walls opening 15x15cm.
- 2- Passages between modules must be as high as the passage from the technological shaft.
- 3- Steel beams, used when there are no walls.

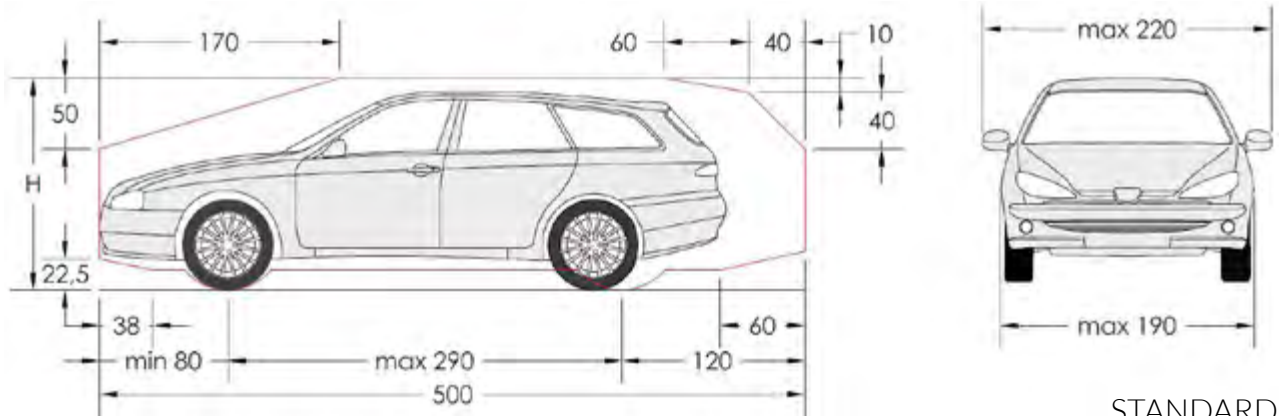


**Wall measuring tolerance must be within a deviation tolerance of up to 1cm, all walls must be at right angles.**

LS	ACTIVE WIDTH OF THE LOWER PLATFORM	ACTIVE WIDTH OF THE UPPER PLATFORM
275	230	270
285	240	280
295	250	290
305	260	300
315	270	310

LD	ACTIVE WIDTH OF THE LOWER PLATFORM	ACTIVE WIDTH OF THE UPPER PLATFORM
505	460	500
525	480	520
545	500	540
656	520	560
585	540	580

## VEHICLE DATA



STANDARD

WIDTH	190* cm
CAR WEIGHT	2200/2600 kg
LOAD PER WHEEL	550/650 kg

\* vehicle width 190 cm with a platform of 230 cm (SINGLE) or 460 cm (DUAL) active width. Proportionately wider cars can be parked on wider platforms.

**The device is designed for parking passenger cars: limousines, sedans, estates, vans, SUVs – depending on the dimensions and weight of the car.**

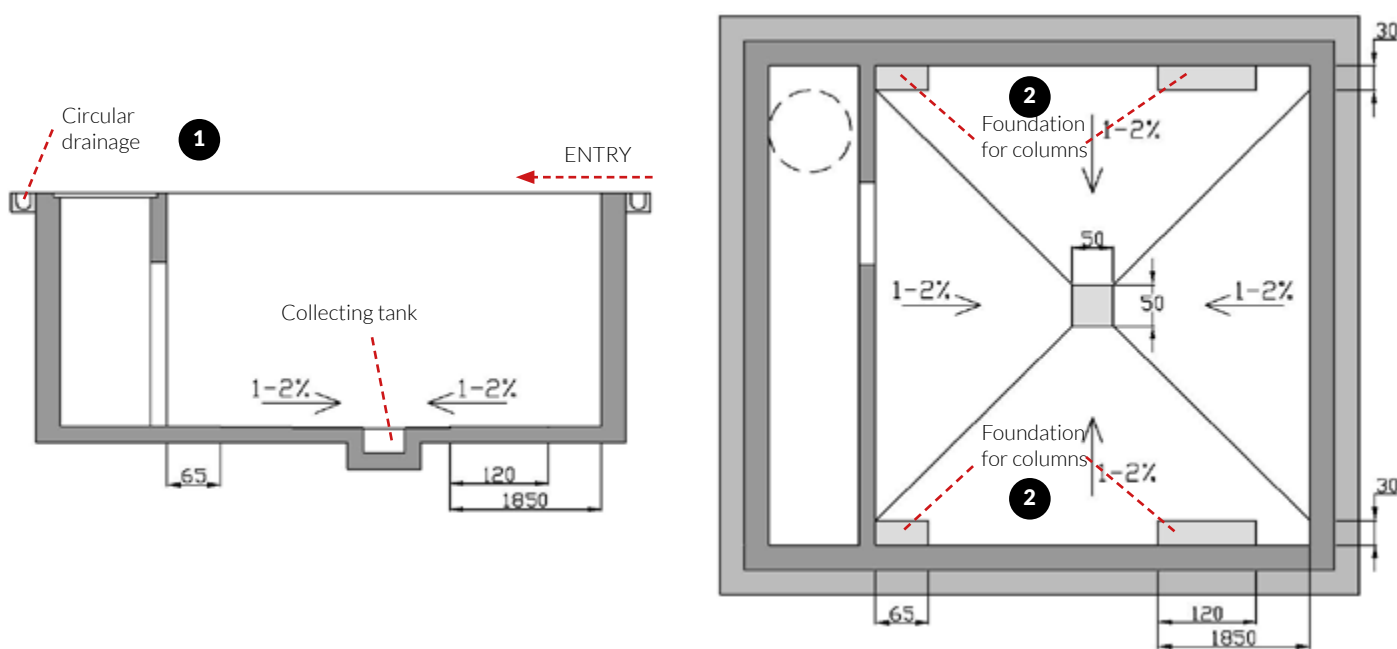


With an active width of 230 cm, the parking platform allows you to park a vehicle up to 190 cm wide (with mirrors folded) with a precise maneuver. For regular parking, we recommend a platform with a minimum active width of 250 cm. A platform with an active width of 270 cm guarantees a high level of convenience when parking and getting in and out of the vehicle. For wider vehicles, use proportionally wider platforms.

(1) The width of the access road shall be no less than that specified by the local regulations. Increasing the width of the access road has a major impact on parking convenience.

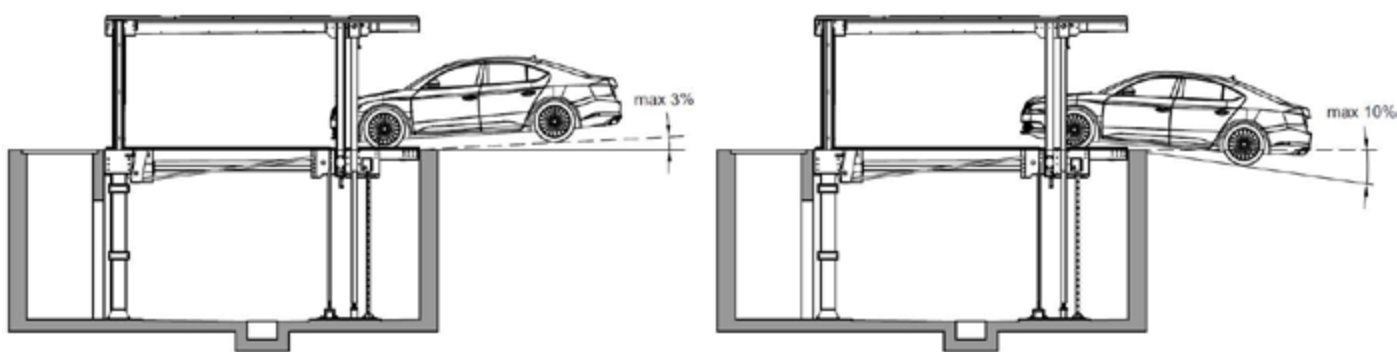
(2) We recommend to always use 270 cm wide platforms in case of extreme parking places located at the walls of a building, where parking maneuvering is difficult.

## PIT DRAINAGE AND DRAIN REQUIREMENTS



- 1- The circular drainage option prevents water from flowing into the pit from ground level, protects against water flooding from ground level.
- 2- The surfaces underfoot should be flat and leveled.
- 3- Prepare the tank depth based on the capacity of the receiving drain or pump

## SLOPE OF THE ACCESS ROAD



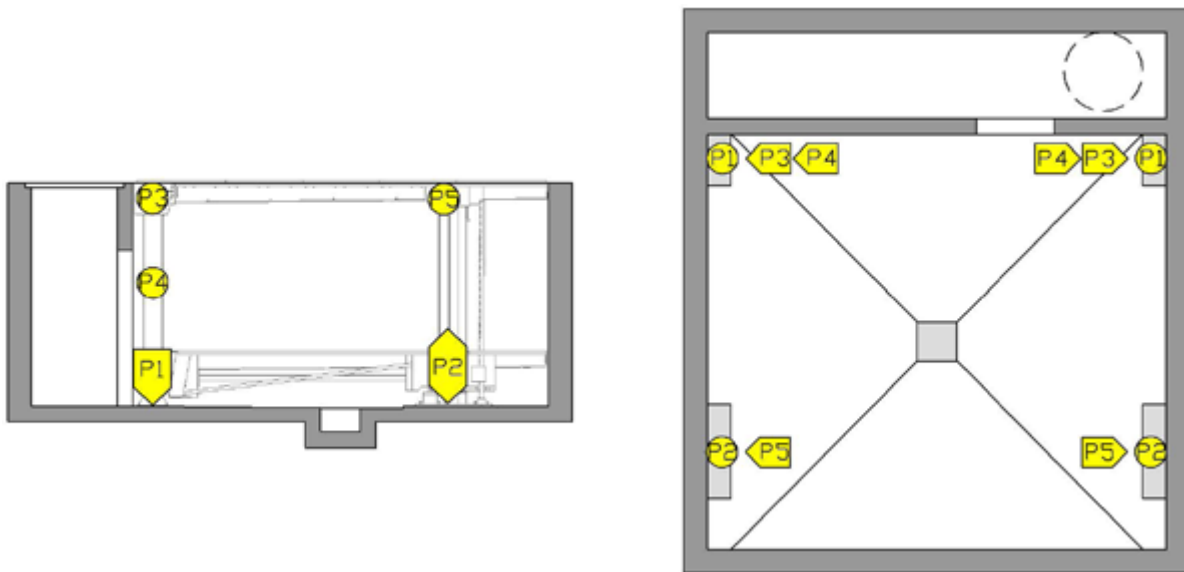
Maximum downhill slope 10%, maximum uphill slope 3%.

### ATTENTION!

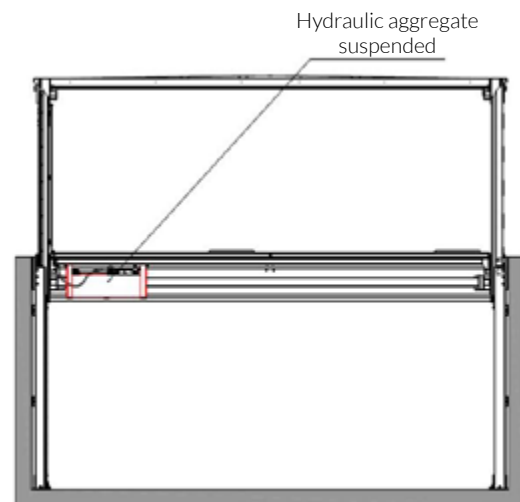
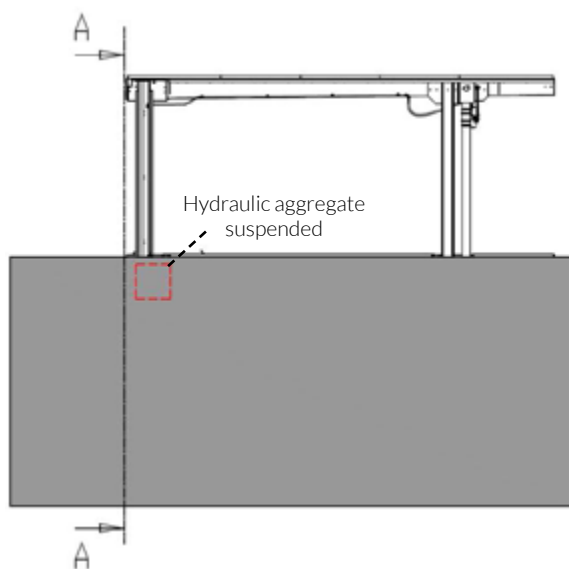
Do not exceed the specified angle of approach for a length of not less than 300 cm from the platform entrance. Failure to comply with this information may result in damage to the car for which the manufacturer is not responsible!



## DISTRIBUTION OF FORCES



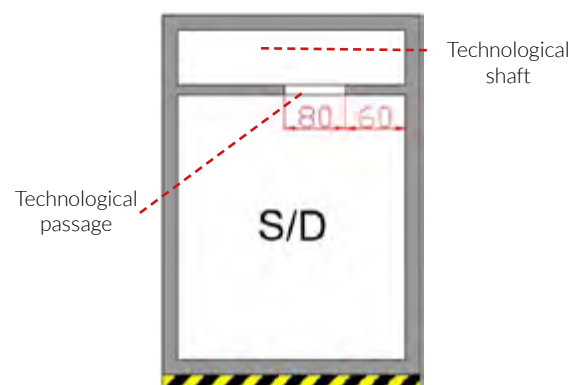
## INDIVIDUAL HYDRAULIC SUPPLY (OPTION FOR SINGLE SYSTEMS)



Hydraulic system fully transferred to parking system.

The suspended supply option reduces the length of moving operating hoses.

Application of the suspended option requires a technological shaft behind the system, direct access to the supply from the technological passage according to dimensional requirements.



## TECHNICAL INFORMATION

The system was developed in accordance with the PN-EN 14010 standard and the Machinery Directive 2006/42/EC and has the CE declaration of conformity.

### Minimum dimensions and tolerances

All dimensions given in the sheet must have a tolerance of +3 cm/-0 cm except in cases where it is clearly stated otherwise (e.g. execution of walls with a tolerance of 1 cm and right angle). No rounding/beveling should be applied to the bays where the walls and floor meet. Use a larger depression where necessary.

### Sound

MODULO PARKING devices fall within the scope of home appliances (PN-B-02151-2:2018-01, section 4, item 4). The permissible sound level of device operation audible in living compartments (30dB(A) according to DIN 4109) after fulfillment of the conditions: use of a low-noise generator, resistance of building structure to noise transmission  $R'w=57\text{dB}$ , separating walls min.  $300\text{kg/m}^2$ , floor over garage min.  $400\text{kg/m}^2$ . If conditions are not met, it will be necessary for the customer to provide additional sound absorption measures and to consult a MODULO PARKING representative. The conditions do not take into account sounds generated by users, e.g.: entering the platform, engine sound, braking, closing the vehicle door.

### Use

As a standard, the system is intended for regular, trained users. Special systems, partially intended for temporary users (e.g. hotels, offices), can be supplied in consultation with Modulo.

### Hydraulic supply system

System A (standard) – from several to a dozen platforms connected to a common, central hydraulic supply. It is possible to raise one platform or lower several\* simultaneously.

System B (optional) – from several to a dozen platforms connected to a common, central hydraulic supply. It is possible to raise one platform and lower several\* simultaneously.

System C (optional) – each unit equipped with an individual compact hydraulic supply. The raising and lowering of each platform is completely independent of the operation of other devices.

\*The electronic control system of the Modulo platforms continuously monitors the operation of the individual devices and indicates the possibility of movement by the color of illumination of the buttons. To ensure the highest level of safety, in accordance with 2006/42/EC, the monitoring system blocks as standard the simultaneous lifting of several platforms connected to a common hydraulic supply to avoid the possibility of unintentional movements.

### Parking for people with disabilities

It is possible to provide a platform adapted to the requirements of people with disabilities:

- widened,
- with a reduced entry threshold,
- with the Modulo SKL locking key system to ensure that the platform is always left in the correct working position.

### Pit drainage

When parking in wintertime, several tens of liters of contaminated water must be drained from a vehicle that has not had the snow removed. Water is drained from the platform to the sides through lateral ducts in the running panels and then through ducts along the platform from where it flows down to the bottom of the bay. From the bottom of the bay, the water must be drained down a slope into a discharge duct. The discharge duct must have an appropriate slope (only the bottom inside the duct) towards the retention tank from where the water will be pumped out, or to the sewer connection point. The edge of the platform access road should be horizontal. We recommend the use of bay bottom protection covers and petroleum separators. Water must not accumulate in the bay – efficient drainage must be executed by the customer before installation of the equipment.

### Environmental conditions

Operating temperature range: -15 to +40°C. Relative humidity: 50% at 40°C

Nominal temperature (at which device performance should be measured): 10°C Optionally, the system can be supplied with special oil:

- Modulo ArcticFLUID to improve the performance of equipment operating permanently at low temperatures or below standard temperatures (down to -30°C, after consultation with Modulo),
- Modulo DuraFLUID to improve the performance of equipment operating permanently at high temperatures or higher than standard temperatures (up to 50°C, after consultation with Modulo),
- Modulo GreenFLUID for environments requiring biodegradable oil.

### Lighting

Adequate lighting of the parking area and access road must be provided by the customer in accordance with local regulations. According to PN-EN 12464-1, we recommend a minimum of 200lx in the parking areas and the control panel area.

### Fire safety

All fire safety features (fire suppression systems, alarms, etc.) must be provided by the customer in accordance with local regulations.

### Barriers

The system must be equipped with barriers where the space between the device and the wall or floor exceeds 20cm. If the unit is directly adjacent to a road located to the side or behind the unit, it is necessary for the customer to install barriers at these locations according to EN ISO 13857.

### Servicing

The devices must be serviced regularly in accordance with the Service Manual provided and within the intervals specified therein. You should also be familiar with and follow the local regulations for parking systems in this regard. Modulo and its authorized distributors offer the possibility of concluding a servicing agreement.

### Anti-corrosion protection

Anti-corrosion protection of structures is executed according to the standards: EN ISO 1461, EN 1034, EN ISO 1294, EN ISO 2081.

In addition to the basic execution, we offer increased standards of corrosion protection in accordance with the Anti-Corrosion Protection Chart or by individual agreement.

### Corrosion prevention

Follow the guidelines of the User Manual and the Anti-Corrosion Protection Chart for maintenance and corrective actions.

### Electromobility

We recommend consultation if you need to install electric vehicle charging systems.

### Additional options (consultation required)

**Modulo NRC** –an additional acoustic enclosure for the hydraulic supply.

**Gate sensor** – a system to activate the control panel when the gate is opened – for systems installed behind the gate with a control panel in front of the gate.

**Integration of individual functions into the control panel** – additional sensors with customer-specific functions, activation of external devices.

**Modulo SKL** - locking key system to ensure that the platform is always left in the correct working position.

**Touch screen control panel.**

### Device construction

The parking system consists of: 2 platforms, 2 posts anchored to the floor and walls, 2 sliders connecting the platforms, 2 front posts connecting the platforms, stabilization shaft, 2 hydraulic cylinders, 2 chains with sprockets and fixings, bolts, anchors, connectors, hydraulic system, electric system.

The platform of the parking system consists of: driving profiles, adjustable wheel bumps, ramp, side profiles, central beam (DUAL version), rear beam, barriers (if required), bolts, washers, nuts, etc.

The hydraulic system consists of: hydraulic cylinders, solenoid valves, hydraulic lines, twist-on connections, high pressure hoses, mounting elements.

The hydraulic supply consists of: geared pump, oil tank, three-phase electric motor, clutch, bypass valve, pressure gauge connector, oil filter, solenoid valve (option A and C), vibration isolation and mounts.

The electrical system consists of: control systems, hydraulic supply control system, electrical and transmission circuits.

### Additional scope of elements to be executed by the ordering party

Three-phase power supply 400v, 50Hz, 3L+N+P with conductor marking, electricity meter, over-current protection according to manufacturer's guidelines (characteristic C), three-phase circuit breaker (yellow-red color) with padlock for each unit, grounding within parking platforms (potential equalization according to PN-EN 20204 from foundation grounding to the platform).

### Available documents

Operation and maintenance manual, quick start guide, declaration of conformity, structure foundation plan, servicing offer/agreement.

In accordance with current regulations, parking systems are subject to commissioning by the Office of Technical Inspection. The manufacturer shall provide the required documentation associated with the device. The ordering party shall provide a construction commissioning report for the flooring.

go back to the start



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**GO**

Examples of photos from our projects are available at <https://moduloparking.com/en/our-realisations/>

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***modulo***

A stylized line-art graphic of a car's rear profile, positioned below the word 'modulo' and above a horizontal line.

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