



Evolution Parking Systems Autolift Parking System



EVOLUTION
PARKING SYSTEMS

◆ General Description

Evolution Parking System's Autolift parking system provides dependent parking spaces for 2 cars one on top of the other. The lower vehicle parks directly on the surface of the car park.

The vehicle parked on the bottom must be driven out lowering the platform.

The parking bays are accessed horizontally (installation deviation $\pm 1\%$).

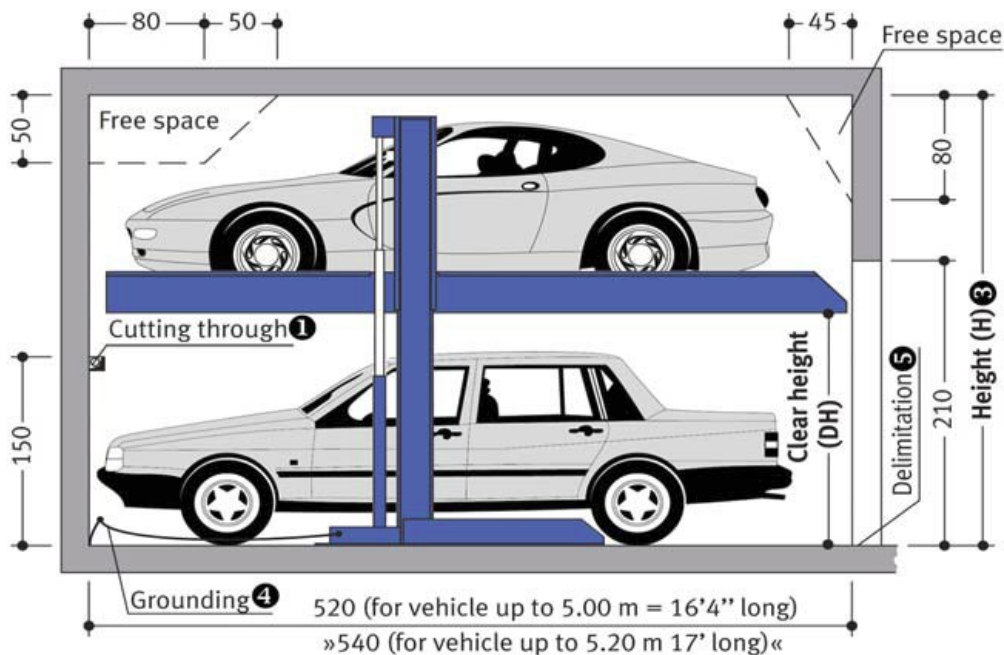
Vehicles are positioned on the parking platform using wheel stops on the right side.

Operation is via operating a lockable key switch.

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

◆ Evolution Parking Systems Autolift Parking System

The Autolift is designed to park cars of any size thanks to its height adjustment. It will accommodate cars as high as the ceiling allows. It is perfect for valet parking garages or for residential projects where a vertical-tandem space is used.



Dimensions

All space requirements are minimum finished dimensions.

Tolerances for space requirements

+ 3 . Dimensions in cm.

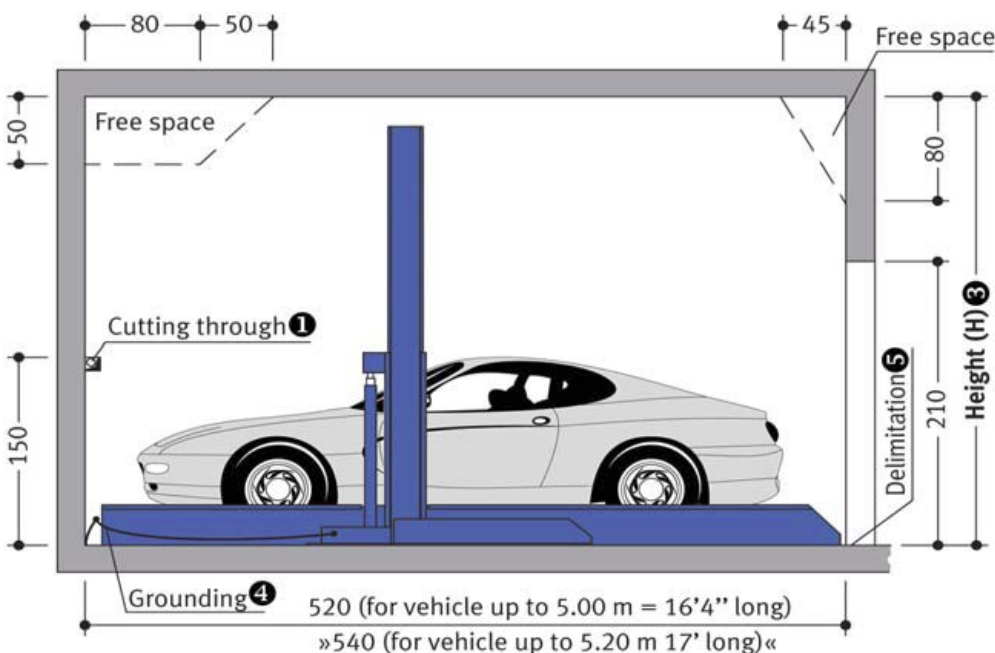
EB (single platform) = 2 vehicles

Typ	H	DH**
AL 160	320	160
AL 170*	330	170
AL 180	340	180
AL 190	350	190
AL 200	360	200
AL 210	370	210

* Standard type

** Without car

Before lowering platform, the vehicle parked in the lower parking space must be removed!



Suitable For

Standard passenger car and station wagon. Height and length according to contour.

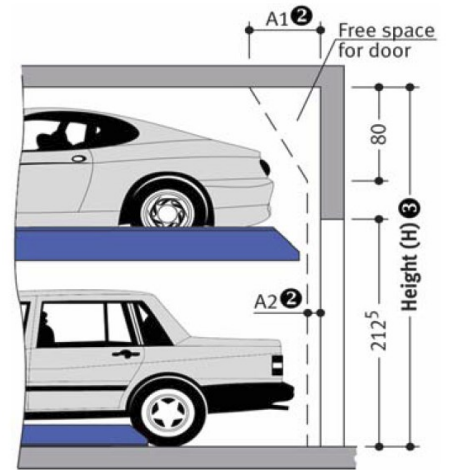
Typ	H	Clearances	
		Upper floor	Ground floor
AL 160	320	150	150
AL 170*	330	150	160
AL 180	340	150	170
AL 190	350	150	180
AL 200	360	150	190
AL 210	370	150	200

width	1.90 m
weight	max. 2000 kg
wheel load	max. 500 kg

Garage with door in front of the car parking system

Notes

- ◆ Dimensions A1, A2 and A3 must be coordinated with the door supplier.
- ◆ If the total height is greater, the max. vehicle height for the upper parking space increases accordingly.



Width for basement garage

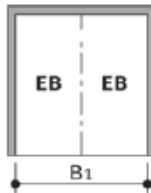
Dividing walls

Single Platform (EB)



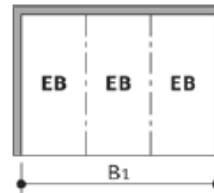
usable platform width	B1
230 *	260
240	270
250	280

Double arrangement (2 x EB)



usable platform width	B1
230 *	520
240	540
250	560

Triple arrangement (3 x EB)



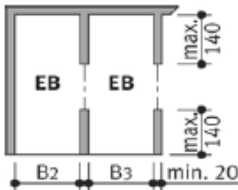
usable platform width	B1
230 *	780
240	810
250	840

Carriageway in accordance with local regulations

* standard type

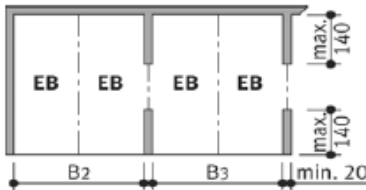
Columns in system zone

Single Platform (EB)



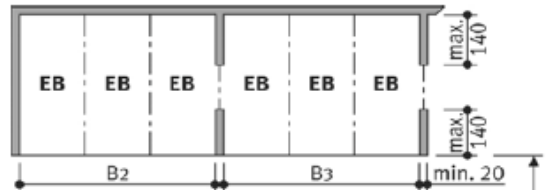
usable platform width	B2	B3
230 *	255	250
240	265	260
250	275	270

Double arrangement (2 x EB)



usable platform width	B2	B3
230 *	515	510
240	535	530
250	555	550

Triple arrangement (3 x EB)

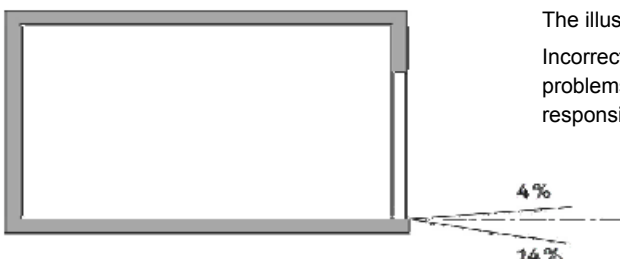


usable platform width	B2	B3
230 *	775	770
240	805	800
250	835	830

Carriageway in accordance with local regulations

* standard type

Approach

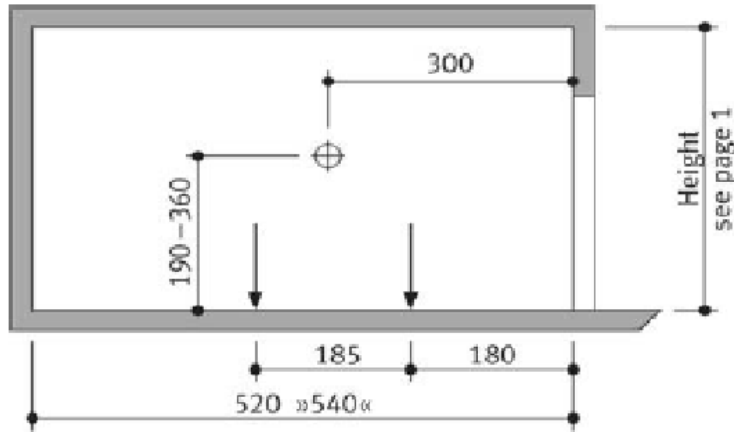


The illustrated maximum approach angles must not be exceeded.

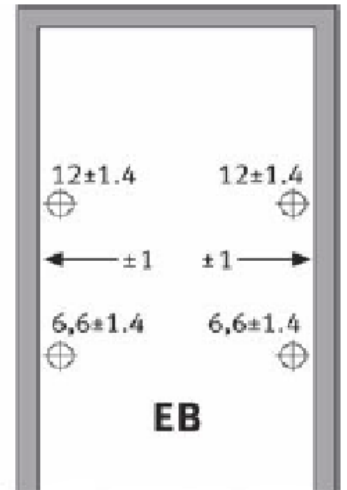
Incorrect approach angles will cause serious manoeuvring & positioning problems on the parking system for Evolution Parking Systems accepts no responsibility.

Load plan

Forces in kN



- ◆ Units are dynabolted into the floor. Drilling depth: approx. 15 cm. Floor and walls are to be made of concrete (quality minimum C20/25)



◆ Technical Data

Environmental Conditions

Environmental Conditions for the area of the Autolift Parking System: temperature range -10 to $+40^{\circ}\text{C}$. Relative humidity 50% at a maximum outside temperature of $+40^{\circ}\text{C}$. If lifting or lowering times are specified, they refer to an environmental temperature of $+10^{\circ}\text{C}$ 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

According to DIN 4109 (sound insulation in buildings), para. 4, annotation 4, Autolift Parking System is part of the building services (garage system).

Normal sound insulation: DIN 4109, para. 4, Sound insulation against noise from building services.

Table 4 in para. 4.1 contains the permissible noise level values emitted from building services for personal living and working areas. According to line 2 the maximum noise levels in personal living and working areas must not exceed 30dB (A). Noises created by users are not subject to the requirements (see table 4, DIN 4109). The following measures are to be taken to comply with this value:

- ◆ Sound absorption protection
- ◆ Minimum sound insulation of building $R'w = 57$ dB (to be provided by customer)

Increased sound insulation (special agreement): DIN 4109, Amendment 4, Information on planning and execution, proposals for increased sound insulation.

Agreement: Maximum sound level in personal living and working areas 25 dB (A). Noises created by other users are not subject to the requirement (see table 4, DIN 4109).

The following measurements are to be taken top comply with this value:

- ◆ Sound absorption protection
- ◆ Minimum sound insulation of building $R'w = 62$ dB (to be provided by customer)

Note: User noises are noises created by individual users in our Autolift Parking System. These can be noises form accessing the platforms, slamming of vehicle doors, motor and brake noises.

We reserve the right to change this specification without further notice

Evolution Parking Systems reserves the right in the course of technical progress to use fresh information, systems, processes, procedures, or standards in the fulfilment of their obligations.