

## EPS 204 Independent parking system



### OVERVIEW

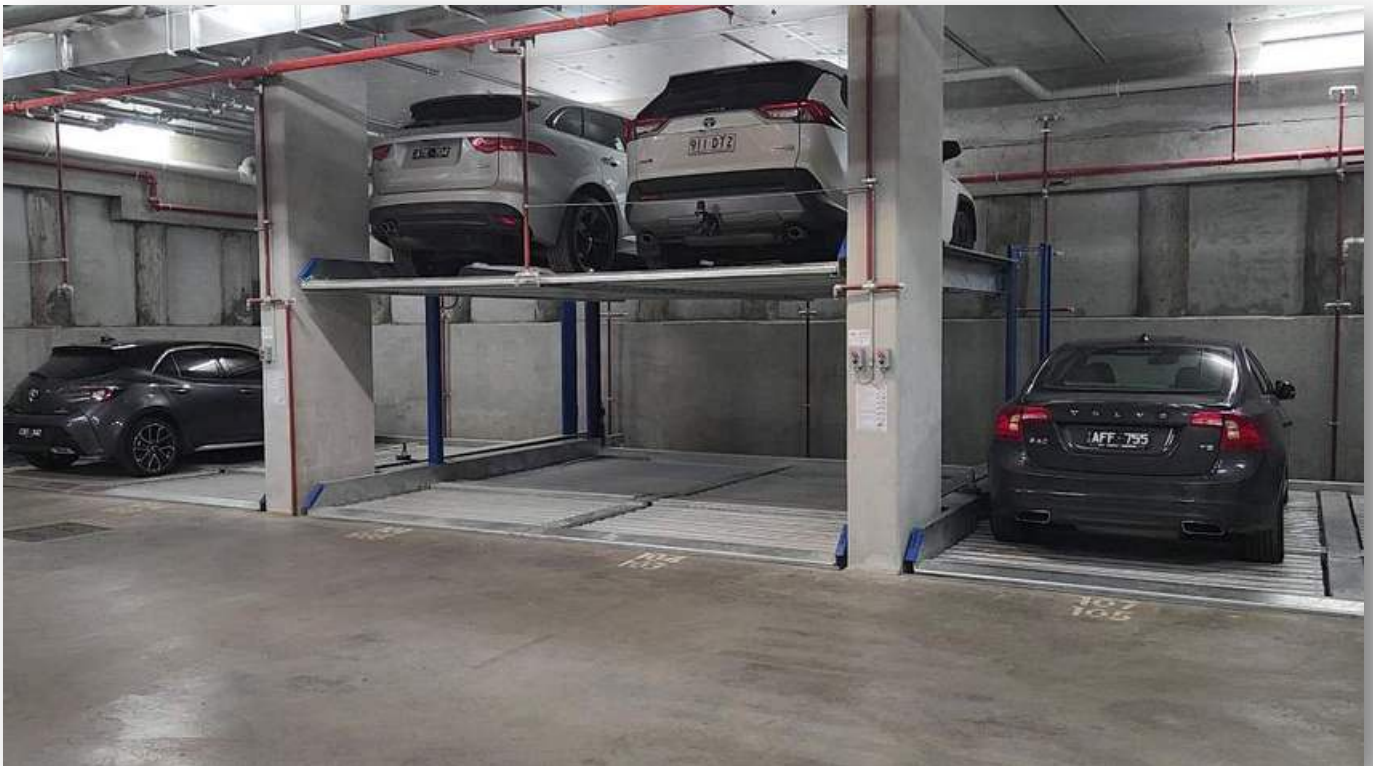
- EPS204 in-ground 2 level (pit design) car stacker
- Double your parking spaces
- Car parking system for independent parking of two passenger vehicles on top of each other
- Single system – Holds 2 vehicles
- Double system – Holds 4 vehicles

## GENERAL DESCRIPTION

- EPS204 in ground 2 level (pit design) car stackers.
- Horizontally accessible level platforms
- Single (2 cars) and Double System (4 Cars)
- Standard load capacity 2000kg per parking space, optional max to 2600kg.

## APPLICATION

- Multi-residential developments
- Townhouse developments
- Mixed use developments

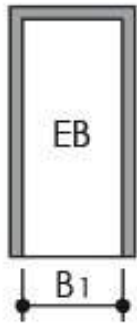




## WIDTH DIMENSIONS – For garage without door

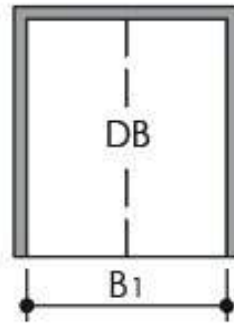
Dividing walls

Single Platform (EB)



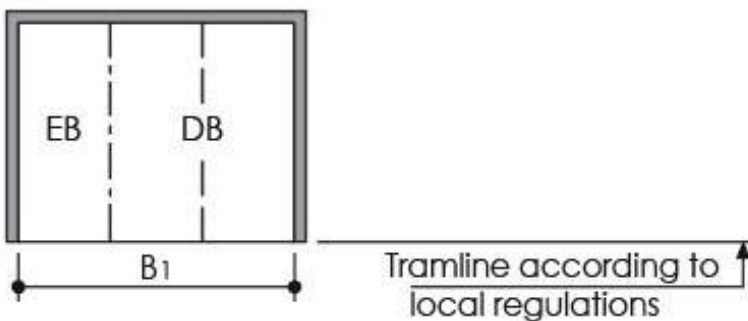
USABLE PLATFORM WIDTH	B1
2,300	2,600
2,400	2,700
2,500	2,800
2,600	2,900
2,700	3,000

Double Platform (DB)



USABLE PLATFORM WIDTH	B1
4,600	4,900
4,700	5,000
4,800	5,100
4,900	5,200
5,000	5,300
5,100	5,400
5,200	5,500
5,300	5,600
5,400	5,700

Single and double platform (EB + DB) - Example



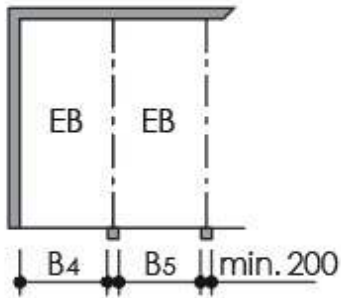
All measurements are in mm

USABLE PLATFORM WIDTH	B1
2,300 + 4,600	7,500
2,400 + 4,700	7,700
2,500 + 4,800	7,900
2,500 + 5,000	8,100
2,700 + 5,000	8,300
2,700 + 5,100	8,400
2,700 + 5,200	8,500
2,700 + 5,300	8,600
2,700 + 5,400	8,700

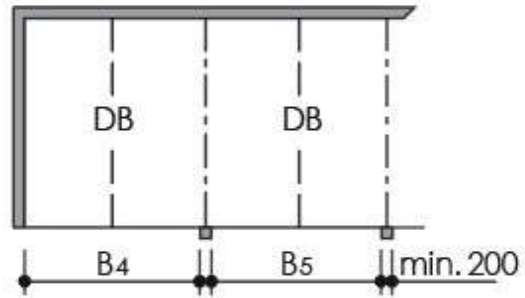
## WIDTH DIMENSIONS – For garage without door

Columns in pit

Single Platform (EB)



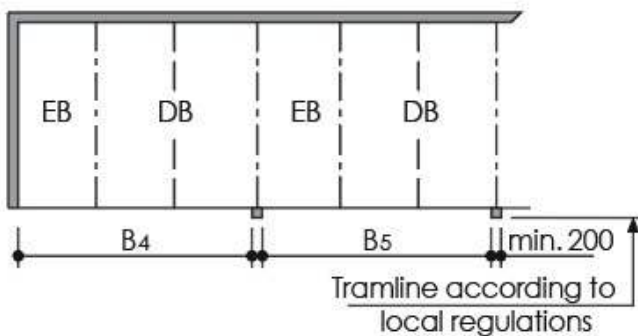
Double Platform (DB)



USABLE PLATFORM WIDTH	B4	B5
2,300	2,500	2,400
2,400	2,600	2,500
2,500	2,700	2,600
2,600	2,800	2,700
2,700	2,900	2,800

USABLE PLATFORM WIDTH	B4	B5
4,600	4,800	4,700
4,700	4,900	4,800
4,800	5,000	4,900
4,900	5,100	5,000
5,000	5,200	5,100
5,100	5,300	5,200
5,200	5,400	5,300
5,300	5,500	5,400
5,400	5,600	5,500

Single and double platform (EB + DB) - Example



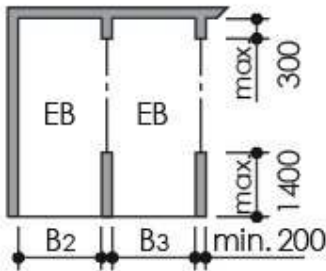
All measurements are in mm

USABLE PLATFORM WIDTH	B4	B5
2,300 + 4,600	7,400	7,300
2,400 + 4,700	7,600	7,500
2,500 + 4,800	7,800	7,700
2,500 + 5,000	8,000	7,900
2,700 + 5,000	8,200	8,100
2,700 + 5,100	8,300	8,200
2,700 + 5,200	8,400	8,300
2,700 + 5,300	8,500	8,400
2,700 + 5,400	8,600	8,500

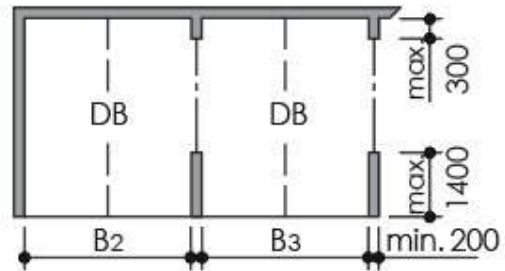
## WIDTH DIMENSIONS – For garage without door

Columns outside pit

Single Platform (EB)



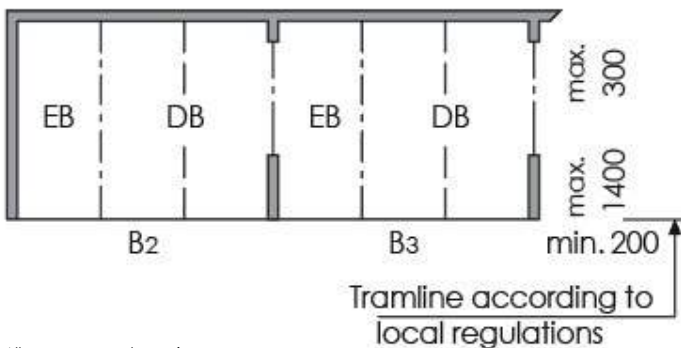
Double Platform (DB)



USABLE PLATFORM WIDTH	B2	B3
2,300	2,550	2,500
2,400	2,650	2,600
2,500	2,750	2,700
2,600	2,850	2,800
2,700	2,950	2,900

USABLE PLATFORM WIDTH	B2	B3
4,600	4,850	4,750
4,700	4,950	4,850
4,800	5,050	4,950
4,900	5,150	5,050
5,000	5,250	5,150
5,100	5,350	5,250
5,200	5,450	5,350
5,300	5,550	5,450
5,400	5,650	5,550

Single and double platform (EB + DB) - Example

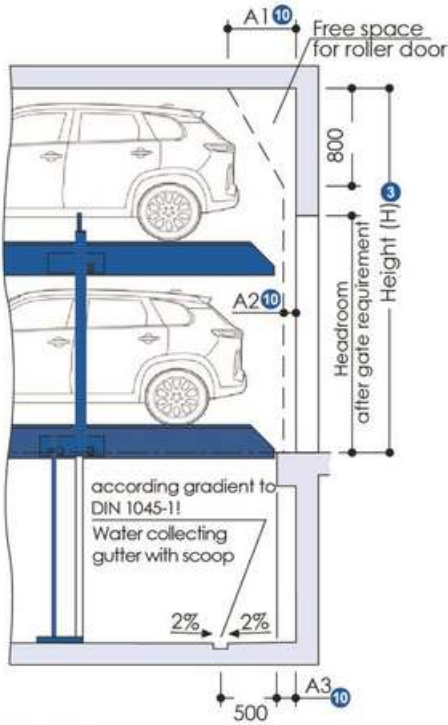


All measurements are in mm

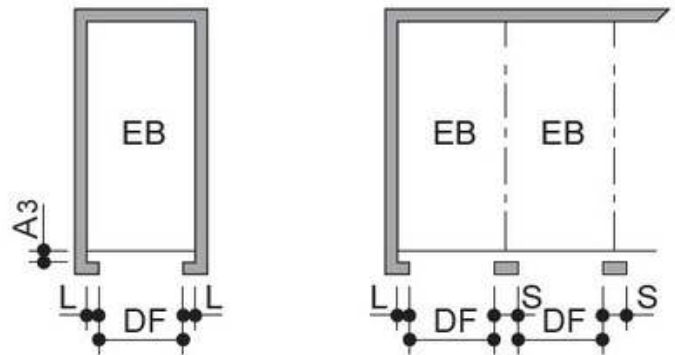
USABLE PLATFORM WIDTH	B1	B3
2,300 + 4,600	7,450	7,350
2,400 + 4,700	7,650	7,550
2,500 + 4,800	7,850	7,750
2,500 + 5,000	8,050	7,950
2,700 + 5,000	8,250	8,150
2,700 + 5,100	8,350	8,250
2,700 + 5,200	8,450	8,350
2,700 + 5,300	8,550	8,450
2,700 + 5,400	8,650	8,550

## WIDTH DIMENSIONS – For garage with door in front

Garage with door in front of the parking system



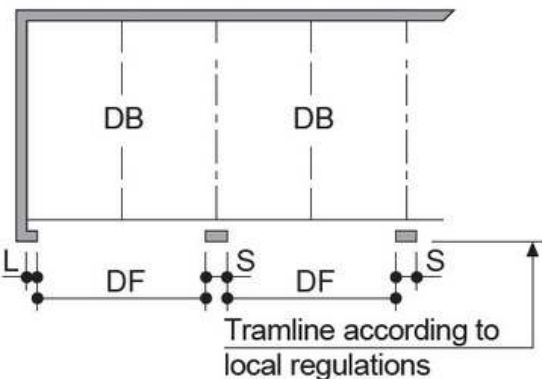
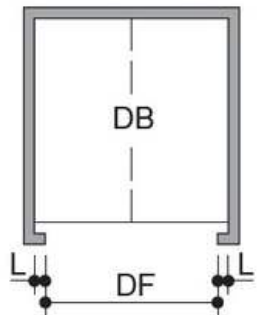
Single Platform (EB)



USABLE PLATFORM WIDTH	DOOR ENTRANCE WIDTH DF	L	S
2,300	2,300	150	300
2,400	2,400	150	300
2,500	2,500	150	300
2,600	2,600	150	300
2,700	2,700	150	300

Double Platform (DB)

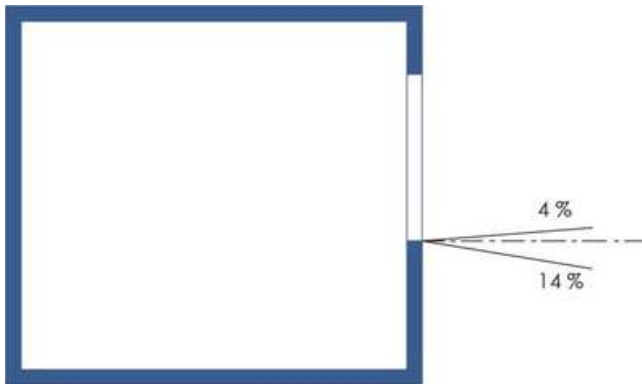
USABLE PLATFORM WIDTH	DOOR ENTRANCE WIDTH DF	L	S
4,600	4,600	150	300
4,700	4,700	150	300
4,800	4,800	150	300
4,900	4,900	150	300
5,000	5,000	150	300
5,100	5,100	150	300
5,200	5,200	150	300
5,300	5,300	150	300
5,400	5,400	150	300



Dimensions A1, A2 and A3 must be coordinated with the door supplier. All round door dimensions require coordination between Car Stackers International and door supplier.

All measurements are in mm

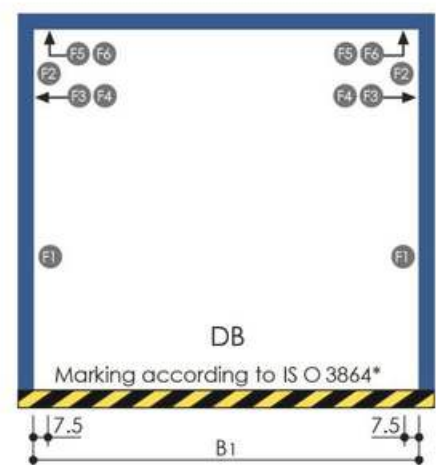
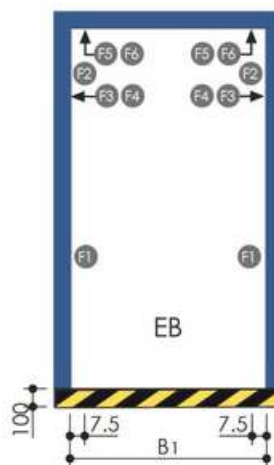
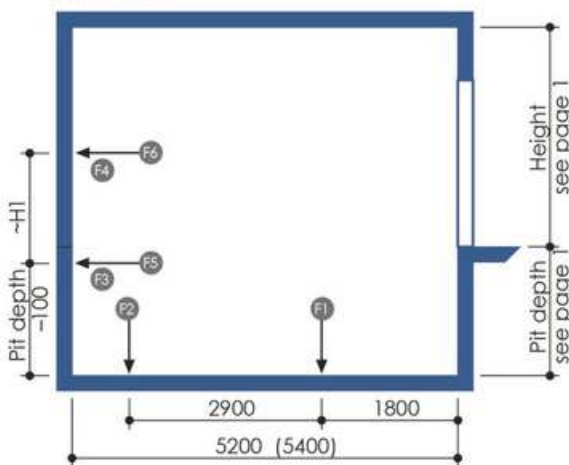
## Load Forces



The illustrated maximum approach angles must not be exceeded. Incorrect approach angles will cause serious maneuvering and positioning problems on the parking system for which Car Stackers Evolution accepts no responsibility.

### Load Plan

Forces in kN



Platform load	F1	F2	F3	F4	F5	F6
<b>EB 2000 kg</b>	+28 -1.5	+12	±1	±0.8	±1.1	±1
<b>EB 2600 kg</b>	+36 -1.9	+15	±1.3	±1	±1.4	±1.4
<b>EB 3000 kg</b>	+42 -2.1	+17	±1.5	±1.2	±1.6	±1.6
<b>DB 2000 kg</b>	+51 -5.8	+20	±1.6	±2.6	±2	±2
<b>DB 2600 kg</b>	+67 -7.4	+26	±2.1	±3.4	±2.6	±2.6

Type	H1
<b>EPS 204P-170</b>	200
<b>EPS 204P-185</b>	215
<b>EPS 204P-195</b>	225
<b>EPS 204P-205</b>	235
<b>EPS 204P-215</b>	245
<b>EPS 204P-220</b>	250

## Technical Information

Evolution Parking System consisting of:

- 2 Pillars with foundation rails (fixed to the floor)
- 2 Sliding pieces (with sliding guides attached to the pillars)
- 2 Platforms
- 1 mechanical synchronization system (for the synchronous operation of the hydraulic cylinders during lifting and lowering)
- 2 Hydraulic cylinders
- 2 rigid supports (connection of the platforms)
- 1 automatic hydraulic breakage protection (prevents involuntary lowering when driving on)  
Dowels, screws, fasteners, bolts etc.

Platform consisting of:

- Platform profiles
- Adjustable positioning aids
- Bevelled bumpers
- Lateral beams
- Bearing centre [DB only]
- Brackets
- Screws, nuts, spacer tubes, etc.



Hydraulics consisting of:

- Hydraulic cylinder
- Magnetic valve
- Line break security
- Hydraulic lines
- Fittings
- High pressure hoses
- Mounting material

Electrics consisting of:

- Control element (EMERGENCY STOP, lock, 1 key with the same key per parking space)
- Sub-distribution
- Control cabinet

Hydraulic unit consisting of:

- Hydraulic unit (low noise, mounted on bracket)
- Hydraulic oil tank
- Oil filling
- Internal gear pump
- Pump support
- Coupling
- Three-phase motor (3.0 kW/5.2 kW/400 V, 50 Hz)
- Pressure gauge
- Pressure relief valve
- Hydraulic hoses (to dampen noise transmission on hydraulic pipes)



# We Know Car Stackers

## MAINTENANCE

Regular service and maintenance is recommended on your machine. Service Division Australia offer periodical service and maintenance agreements.



## IMPORTANT NOTES

Supply line to main switch The supply line to the main switch and the control line to the unit must be made by the customer during installation. The functionality can be checked by our technicians on site together with the electrician. If this is not possible during assembly for reasons attributable to the customer, an electrician must be commissioned by the customer. The steel construction is to be provided on site with foundation earthing connection (grounding distance max 10 m) and potential equalization according to DIN EN 60204. EG-Machinery directive Our parking systems comply with the EG-Machinery directive and are CE certified according to DIN EN 14010:2003 and meet AS5124:2017 Safety of machinery - Equipment for power driven parking of motor vehicles - Safety and EMC requirements for design, manufacturing, erection and commissioning stages (EN 14010:2003, MOD) Balustrade / Barriers Possibly required barriers according to DIN 294 for securing the parking pits in traffic lanes directly in front of, beside or behind the facilities. This also applies during the construction phase. Railings on the systems, if required, are included optional! Building Service Requirements Lighting, ventilation, fire extinguishing and fire alarm systems. Ramps' inclination: In the front of the pit, we recommend to plan a water collecting gutter and to connect it to a ground drain or a pit (500 x 500 x 200 mm) In the canal, a lateral slope is possible, but not in the remaining area of the pit (the gradient in the longitudinal direction is due to the dimensions). In the interest of environmental protection, a painting of the bottom of the pit should be made. Oil or gas separators are recommended for connection to the sewer system.



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