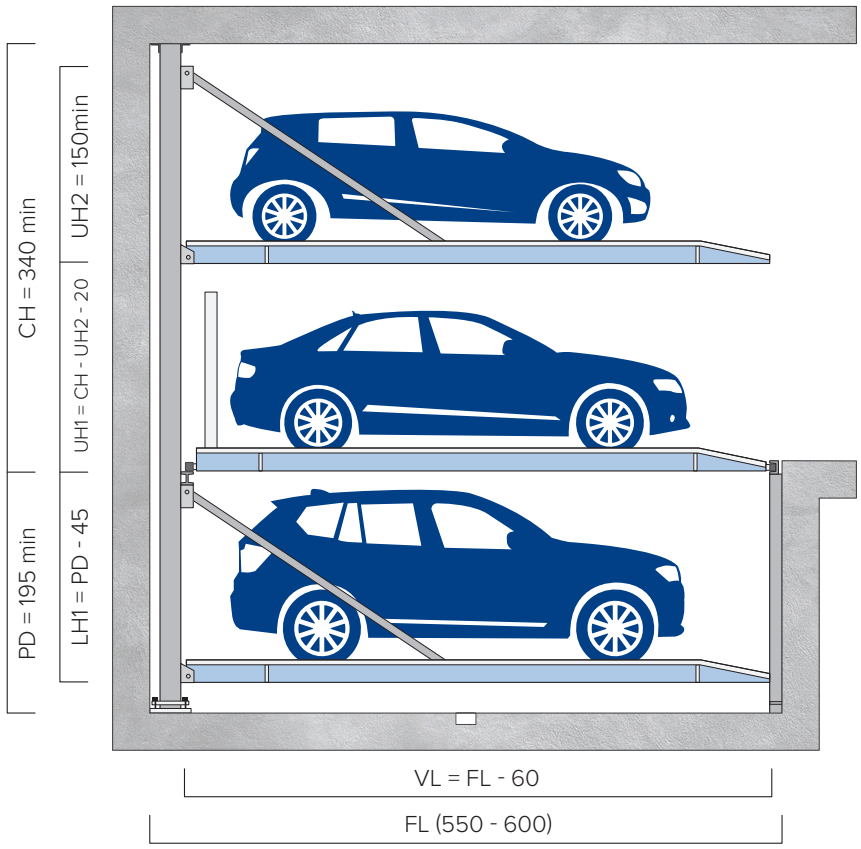
V-PARK LS21h
Product Datasheet



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Drive Type

Hydraulic power pack

Recommended Dimensions:

Upper Height 1: 180
Floor Length: 600
Platform width: 249

Please Note

Loading points apply to this system, please enquire on the number above

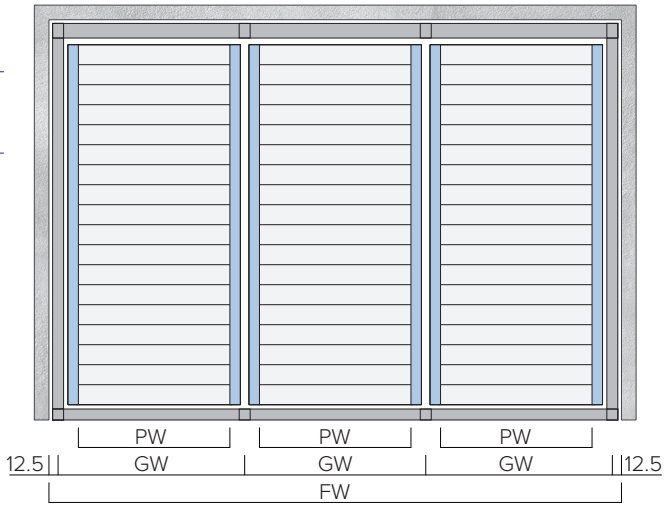
Top View

Platform Width (PW):
GW - 26

Grid Width (GW):
(245 - 275)

Floor Width (FW):
(N x GW) + 25

N = number of grids



Vehicle Restrictions

Height
Min: 150 Max: 220

Length
Min: 490 Max: 520

Width
Min: 219 Max: 249
(Height and width values may be ± 5cm, Length may be ± 10cm)

Suits Vehicle Type:
Standard passenger vehicle
(car, wagon, SUV and van according to clearance and maximum load)

Weight Capacity

Standard

Car Width:	190cm
Kerb Weight:	2100kg max.
Wheel Load:	525kg max.

Premium

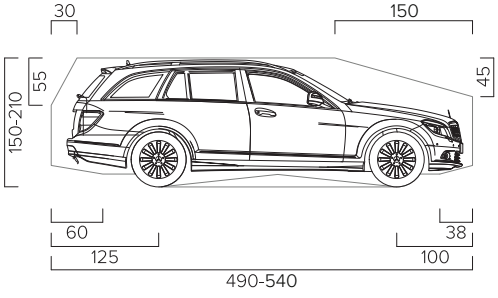
Car Width:	190cm
Kerb Weight:	2600kg max.
Wheel Load:	650kg max.

Standard Machine Example

The diagram above shows the minimum dimensions of this model. Ceiling height, pit depth and length must be within the specified ranges. All the formulas presented in this data sheet are based on minimum car dimensions. Values of height and width may be ±5cm, length may be ±10cm.

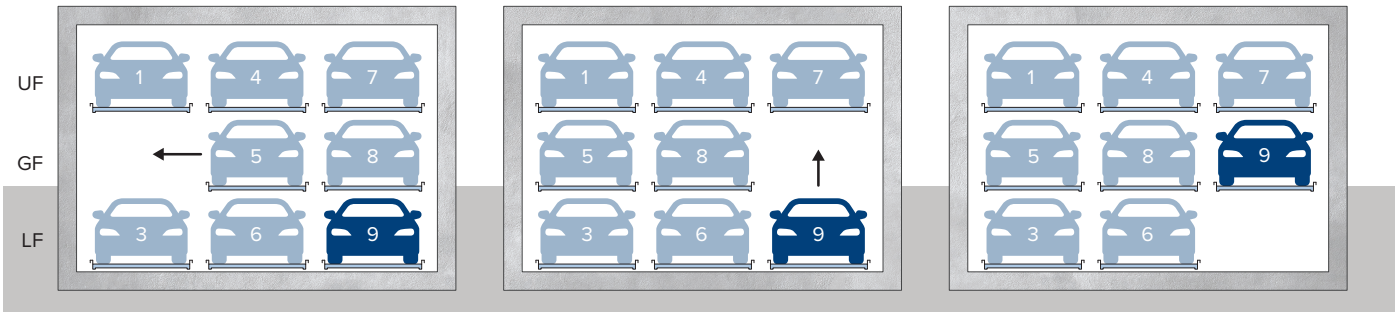
Ceiling Height (CH): 340	**Upper Height 1 (UH1):** CH - 150 - 20 = 170 **Upper Height 2 (UH2):** 150
Pit Depth (PD): 195	**Lower Height 1 (LH1):** PD - 45 = 150
Floor Length (FL): 550	**Vehicle Length (VL):** FL - 60 = 490
Floor width: 760 **N** = 3	**Grid width:** (FW - 25) ÷ 3 = 245 **Platform width:** GW - 26 = 219

Clearance Profile



Stacker Function

The following diagram demonstrates the stacker function when selecting a platform.
After checking that all doors are closed, for this example we will then select platform number 9:

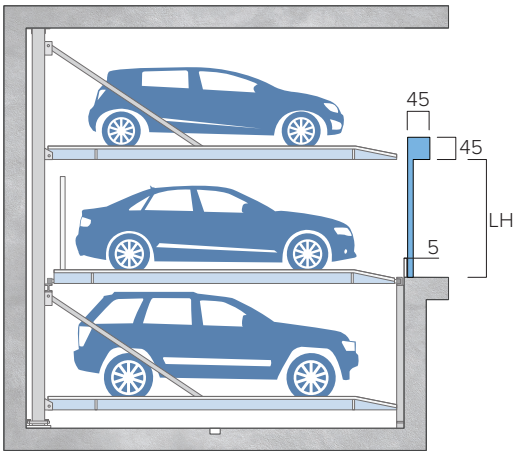


The Ground Floor platforms 5 & 8 are shifted to the left.

Platform 9 is then moved in to the empty space.

The vehicle on platform 9 can now be driven off the platform.

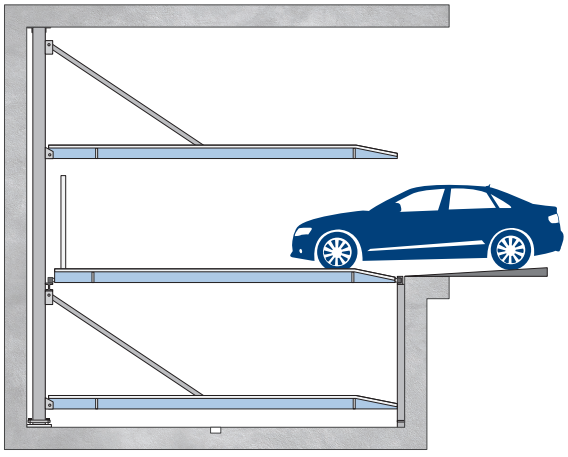
Roller Door



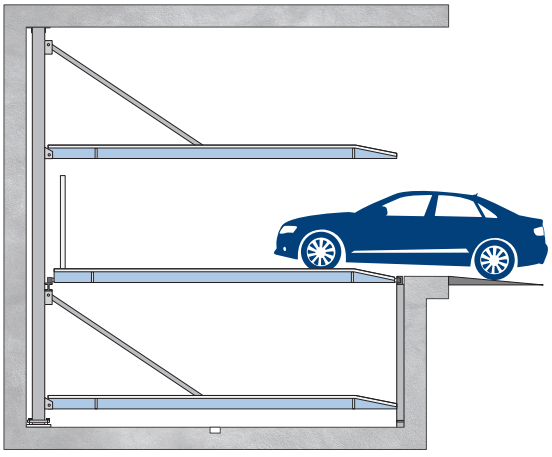
LH = max vehicle height +15cm

Allowable Slope On Entry

Maximum descending slope 3%



Maximum ascending slope 5%



Product Information

Product Overview

The platforms in all systems are built with easy-walk flooring, which means there are no gaps on the platform surface. Low platform side arms provide more space for opening vehicle doors, allowing for easier access.

The row of platforms at the ground (entrance) level has one less platform than upper or lower levels. The platforms at ground level travel sideways to clear a space under an upper level platform so it can be lowered, or above a lower level platform can be lifted.

Additional Features

- 24/7 Remote Monitoring
- Intercom system to local service technician
- Remote assisted resetting of minor malfunctions
- Malfunction notifications to local service technician
- User history and operation log
- Error log
- 24/7 CCTV monitoring and motion recording
- Australian RF remote control
- System integration with building automation

Electrical Control Cabinet

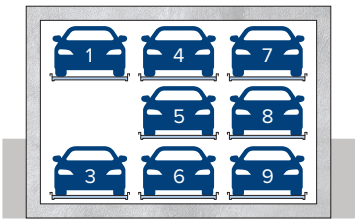
The electrical control cabinet is to be positioned in a place accessible from outside the stacker.

Conformity

All of our systems are designed and thoroughly checked to meet the requirements and standards regarding installation of equipment, procedures for automatic or manual systems, commissioning and maintenance protocols of the AS4024 and AS5124 standard.

Parking spaces numbering

The empty space in the stacker is always on the left side of the entrance level. The numbering pattern is demonstrated here in the following diagram.



Dimensions

All dimensions are in centimetres (cm) and are the minimum required. Construction tolerances must be considered.

Illumination

Illumination must be provided by the customer according to local standards and requirements.

Electrical Data

A 415 V, 50 Hz, 3 phase connection, 32 A isolator is required, according to AS/NZ and local standards, supply line 3Ph + N + PE, grounding and potential equalization in compliance with AS 60204, all to be performed by the customer.

Temperature

All systems are designed to operate in the range of +5°C to +40°C, at an atmospheric humidity of 50% at +40°C.

Safety Fences

Safety fences, in-fills, enclosure or any other constraints that may be necessary according to AS4024 have to be provided by the customer as protection for pathways directly in front, next to or behind the system. This is also valid during the construction phase.

Drainage

We recommend that the customer provides a drainage channel in the pit centre and that this be connected to a floor drain system or sump (50 x 50 x 20 cm). If the sump is not accessible for manual drainage, a pump must be provided on site by the customer to empty the sump. We also recommend an oil-resistant coating for the pit floor for purpose of ground water hazard prevention and environmental protection. If sump is to be connected to the public sewage system, we highly recommend the customer to provide oil and petrol separators.

No spoon drains to be built around the perimeter of the pit.

Maintenance

Major and minor preventive service maintenance is to be conducted quarterly by a V-Space service and maintenance technician as listed in the service contract.

Fire Safety

The customer must provide each and every fire safety requirement and all possible obligatory item(s) and equipment such as fire extinguishing systems and fire alarm systems. The customer must refer and comply with relevant local fire safety guidelines.

Protection Against Corrosion

Cleaning must be carried out regularly following the V-Space instructions in the user manual. Clean up all dirt, dust, road salt and other pollutants from galvanized parts and platforms. The pit/garage must be well ventilated and aerated.

Noise Protection

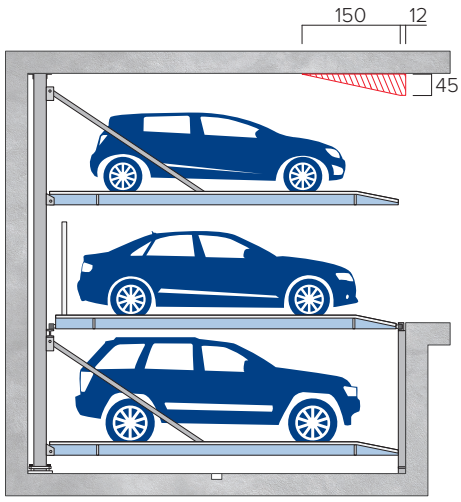
According to AS 2107 Acoustics - Recommended design sound levels and reverberation times for building interiors, the permissible sound levels emitted from building services for personal living and working areas must not exceed 30 dB (A). To comply with this value, the following measures are to be followed:

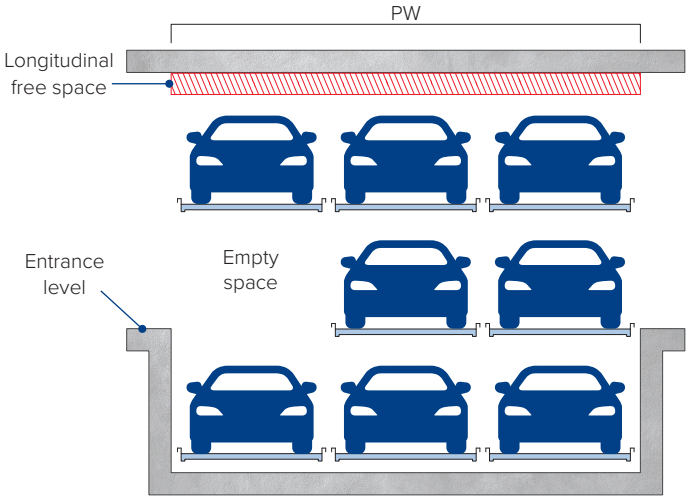
- Sound protection package according to offer or order (provided by V-Space).
- Minimum sound insulation of building R'W = 57 dB.
- Stacker must have a single deflection resistant bordering wall with minimum m' = 300 kg/m^2 and a solid ceiling above with minimum m' = 400 kg/m^2.

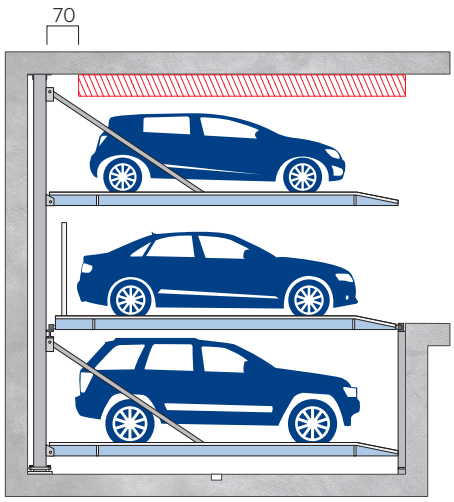
Other construction conditions and additional sound absorbing measures must be provided by the customer. The best results are achieved by separated sole plates from the construction. If additional noise protection is required, planning should be done in coordination with V-Space.

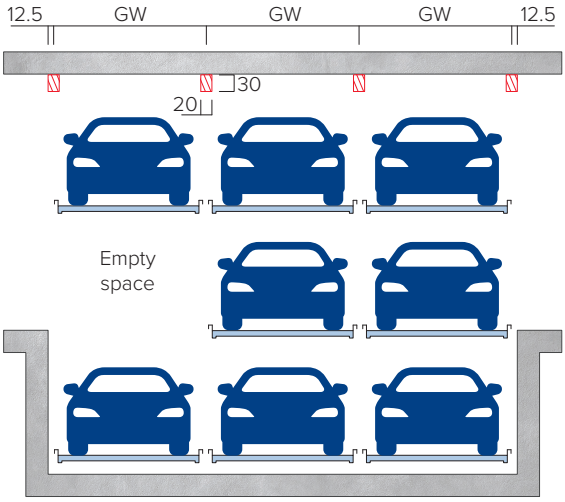
Free space

Free spaces indicated in the drawings below are to be reserved for building services, air ducts or any other pipes.









Model Definition

LS 2 1 h – 3 G – FL 550 – PD 195 – CH 340 – GW 245

- **Machine Type**: LS – Lift and Slide; VL – Vertical Lift
- Above Ground
- Under Ground
- **Drive Type**: h – Hydraulic; i – Motor and Chain
- Number of Grids
- Floor Length (cm)
- Pit Depth (cm)
- Ceiling Height (cm)
- Grid Width (cm)

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