



CARDOK CARLIFT with Rigid chains technology

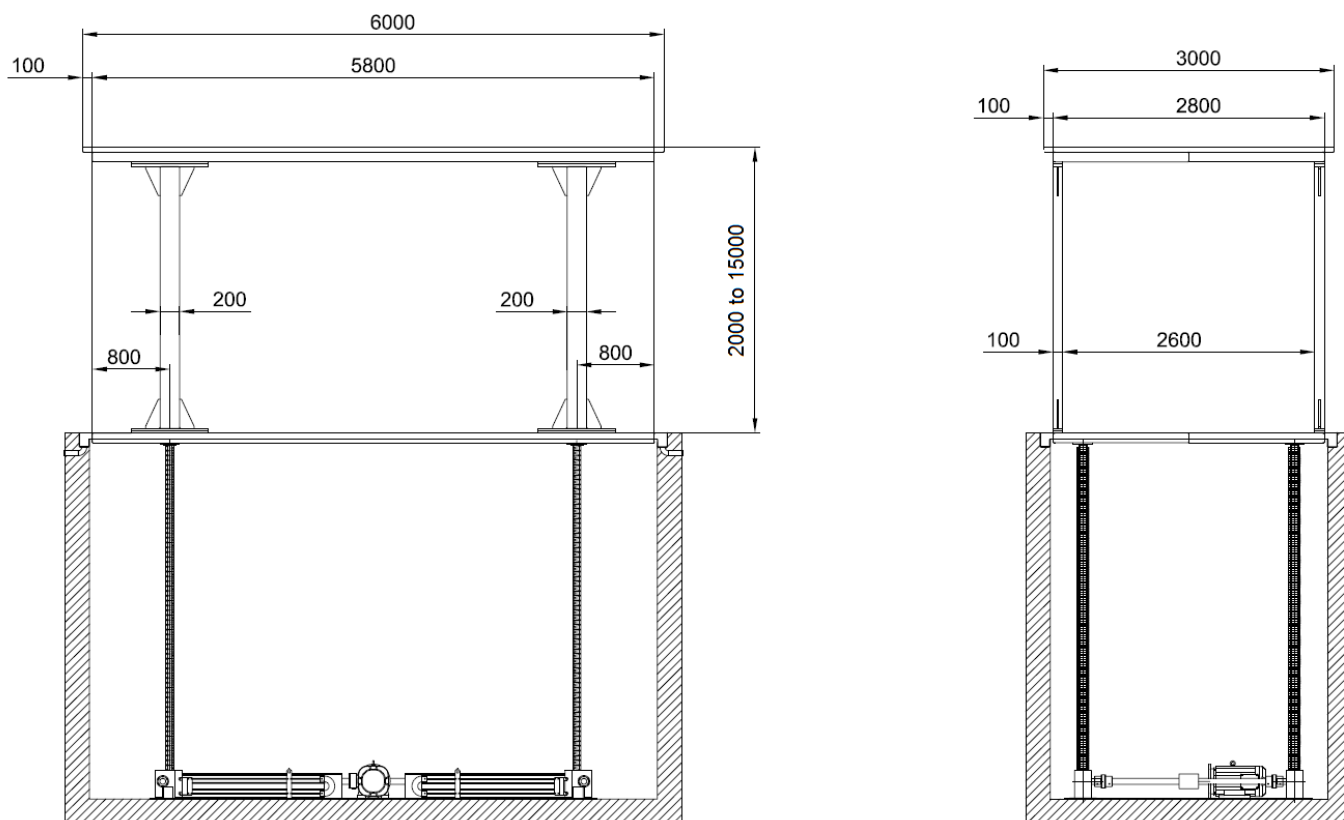
Very fast access to underground garages

Fast, Silent, Discreet, Design, High-Tech

Installation to replace an access ramp on private property

Dimensions:

(Built to measure, all dimensions (in mm) can be changed and adapted upon request and following acceptance)



For lift travel more than 3m we suggest our upper platform with our telescopic pillars.

Technical zone:

Need to provide a space of min. 2.0m² for technical area, accessible at all times for maintenance.

When several Cardok systems are installed, one power pack will be sufficient to lift each platform separately.

Need to install 1 watertight conduit for electric cables. The min diameter is 80mm (they can be cast in the concrete)

Characteristics: (in mm)	Standard	option
Lower platform load:	3000kg	2000kg / 2500kg / other
Upper platform load: (Dynamic movement available upon request)	3000kg Static	2000kg / 2500kg / other
Dimensions available for lower platform:	2800 x 5800 mm	2700/3100 x 5000/6000 / other
Dimensions available for upper platform:	3000 x 6000 mm	2900/3300 x 5200/6200 / other
Available height:	2000 - 4500mm	4000 -15000 / other
Lift speed:	0.12m/s	0.15m/s

Concrete pit: (built by customer)

The thickness of the walls needs to be defined by an engineer depending on the quality of the land. The walls of the pit must be formed of concrete and must be perfectly flat and vertical without any protrusions.

The weight of the entire installation together with the maximum load is borne by the concrete pit floor in 4 areas of 400 x 400mm. The static force of each of them is +30kN. The size can be increased, upon demand.

Concrete quality according to the static requirement of the building but for the dowel fastening we require a concrete quality of min. C20/25.

It's important to ensure that the pit edge remains watertight to avoid water entering the concrete cast. This can be achieved with asphalt for example.

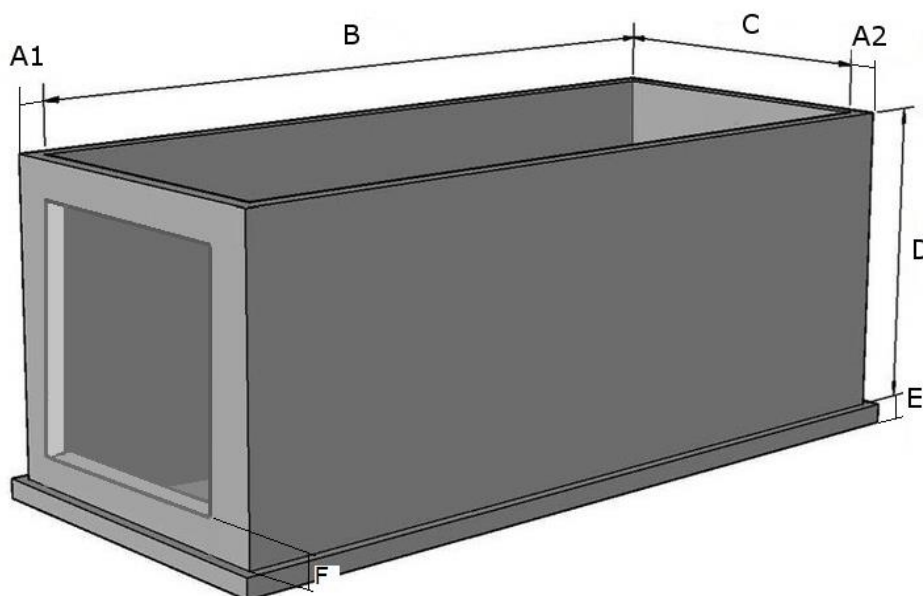
If the land has low permeability we recommend installing a draining system.

Provision of a watertight passage is necessary for electrical supply of min. 80mm in diameter.

Provision of a watertight passage is necessary for water drainage. (see "drainage")

(made to measure, all dimensions can be changed upon request and upon acceptance by Cardok)

- A1 : to be defined by the engineer
- A2 : to be defined by the engineer
- B : standard 5860mm
- C : standard 2900mm
- D : standard 2500-4500mm
- E : to be defined by the engineer
- F : standard 600mm



People transport:

In option we can design the CarLift with the EN81 norm for people transport inside the car.

Drainage: (to be performed by the customer)

A circular gutter system around the upper platform will prevent water entering the pit. Need to install draining pipes in each corner.

For locations with particularly exposed conditions we recommend an additional drainage channel around the outside pit.

Need to install a drainage grid at the bottom of the pit. Where this is not possible, it's necessary to create a slope and a drainage area to install a small sump pump. The necessary dimensions are min 200x100mm and 50mm deep.

To prevent any possibility of contamination of the ground water we recommend giving the pit floor an oil resistant coating as a means of protecting the environment and to facilitate cleaning.

Installation:

The client needs to provide a fixed or truck mobile crane which will serve to install the system in the pit as well as to unload the truck. Min. hook height and weight requirements are 4m / 6t. (Depend of the site configuration)

Protection: (to be performed by the customer)

It is necessary to install a manual or automatic gate in the underground, coordinated with Carlift to prevent access to the platform when it moves up or down. We recommend fast doors which need only 1.8-4 seconds to lift up. We can also recommend an option with protective bellows installed around the bottom part of the lift.

Finish:

The finishing of the upper platform is up to the customer's wish and is not included in the price. We recommend a coating matching the surrounding land which can be asphalt, tiles, gravel, grass or aluminium. It must be determined before the system is built as the weight and the thickness of the coating needs to be taken into account. The standard coating will be 40mm thick and its weight will not exceed 70kg/m². Other options are possible upon request.

Electricity:

The electrical components supplied by the manufacturer must be connected in accordance with the appropriate wiring diagram and local regulations.

400VAC (without options) 3PH+N+ PE (three-phase current) protected by FI

Power electrical motor 18kW to 37kW (depending lift travel and speed)

Two electrical boxes must be installed outside with an emergency switch and key push buttons to lift or lower the platform. The boxes must be installed close to the platform.

Noise:

In option the electric motor can be equipped with a noise protection case.

The lifting system does not produce any noise except for some friction noise.

Light:

There are 4 LEDs lights installed on the lower platform.

If the technical zone is installed away from the concrete pit, it is necessary to install additional lights for maintenance.

Ventilation:

We recommend providing a ventilation system in consultation with heating/ventilation/air conditioning engineers with the aim of obtaining continuous air exchange, reducing air humidity, preventing condensation and reducing moisture from cars (rain, snow, ice etc.).

This helps considerably to reduce or to prevent corrosion and malfunctions due to corrosion.

Maintenance:

Regular maintenance by qualified personnel can be provided by means of an Annual Service Contract, included during the warranty period (without travel).

Temperature:

The installation is designed to operate between -5°C and +50°C. Atmospheric Humidity: 50% at +40°C.

The electrical control panel must be installed in dry local between +3° C and +30° C

Systems are designed for snow load zone II with up to 0.75 kN/m² in accordance to DIN 1055-5.

If the local circumstances differ from the above, please contact us to provide it.

Conformity test:

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14010.

Notes:

In case higher loading is required e.g. passage for fire brigade or delivery fuel oil, please contact us.

The manufacturer reserves the right to modify or alter above specifications.