



# Installation Guidelines

**These notes set out the guidelines for a typical installation. However, as each installation is site specific these notes are for guidance only and are not to be relied upon.**

## **Excavation**

The standard excavation dimensions are 7300 (length) x 3900 (width) x 3500 (depth). This allows for the unit with the minimum 300mm backfill in all directions. The depth given is to a finished concrete levelled pad stone or slab.

## **Delivery**

The Cardok will be travelling from the factory by road on the morning of installation. Therefore the delivery time will be influenced by traffic but the aim will be to have the units on site by 10.00 am. The Cardok will be travelling by lorry and will need to have clear access for off loading. The unit weighs approximately 10 tonnes and is approximately 6.8 metres in length.

## **Off Loading**

A crane will be required to position the Cardok and lower it into the excavation. The provision of the crane is the responsibility of the customer. Typically a 50 Tonne crane needs to be within 13 metres of the excavation to safely handle the weight and positioning of a Cardok. This will require confirmation with the crane hire company. Cardoks are fitted with lifting shackle points.

Any road closures are the responsibility of the customer. The customer, or his installation contractor, is to be responsible for supplying banks men to ensure safety of off loading and manoeuvring.

## **Levelling**

The Cardok is fitted with integral adjusters for fine adjustment to finished level. The Cardok must be fitted level for safe operation. The adjustable feet are < 500mm diameter steel feet and need to be set on a level concrete base at a specified distance below finished ground level. On the day of delivery the Cardok engineers will be available to make the adjustments to the customer's satisfaction of final level.

## **Back filling**

Once the Cardoks have been set level on their feet, the first pour of concrete can take place, this is to be to a level of a minimum of 400mm up the side of the unit (from bottom of feet). This should have a free flow accelerator additive, and must totally surround the Cardok base. The first pour acts to distribute the weight of the Cardok and to prevent any floatation. Once this has set the second pour can follow to a depth of 825 mm. Once this has set the remainder of the back fill can take place.



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## Connections

The customer's electrician will need to supply a 6 metre coil of cable through the power inlet connected to the 3 phase supply, to be left for the Cardok engineer to connect to the unit motor.

A control duct with drawer string needs to be supplied to the appropriate inlet. The Cardok engineer will use this to route the cable back to the control box.

The four corners of the Cardok have threaded outlets for connection to the surface water drainage system. The collars are British standard 2 inch threaded collars. All 4 corners should be connected, although if a corner is to be omitted for any reason the outlet needs to be sealed. There is one final drainage outlet, through 2 inch threaded collar connecting the emergency sump pump with the surface water drainage.

The control duct needs to terminate at the control box position. The control box position needs to be suitable for fixing the remote control receiver and the master control switches. These units will be supplied and connected by Cardok

## Top Surface

The customer is free to fit the final top surface of their choice once all the back filling has been completed. The tray is fitted with an up stand and can safely handle up to a weight of 1.5 tonnes in addition to the weight of two vehicles. The maximum weight of each individual vehicle is 3 tonnes.

Once the surface treatment is completed, the Cardok engineers will make final adjustments to the hydraulic lifting cycle, this to take account of any variation in top tray finished weight.