

Fig 1



Fig 2



Fig 3



Gate Vault

Provisional Patent Application 2017/03185

Gate motors are increasingly being stolen by syndicates. To prevent this a gate-vault has been developed that offers extreme protection.

The Gate Vault (see [fig 1 to 3](#)) is essentially a hollow cube. Its base and three of its sides are made of 60MPa reinforced concrete. The fourth side (see [fig 2](#)) is a steel bracket which adjustably supports the gate-motor and has a cut out for the motor's drive pinion. The top of the vault consists of a robust hinged steel lid that has two lock boxes. In [fig 1 & 2](#) the lid is closed while in [fig 3](#) it is open.

In [fig 4](#) a lockable solar panel is supported on a short mast that is mounted to the vault's lid. The mast is capable of 360 degree rotation horizontally to face true north. Zero to 70 degree vertical adjustment is also possible - to optimise the angle of the sun as it changes from summer to winter.

Fig 4



Fig 5



[Fig 5](#) shows the sliding gate in its fully open position. Two goosenecks have been installed, each fitted with keypads to open the gate.

[Fig 6 & 7](#) show how the solar panel may be further elevated by extending the mast. This has the advantage of making it more difficult for vandals to reach the solar panel. The solar panel may easily be lowered to the ground if necessary (see [fig 7](#)) as the mast extension is attached to the hinged lid.

The solar panel options shown in [figs 4 to 7](#) are ideally suited for ranches, farms and plots where no electricity is available at the entrance gate to recharge the motor's battery. On the other hand, if Eskom power is available, as in residential and industrial areas, then the option shown in [fig 1](#) (no solar) will suffice.

The 'Gate Vault' is manufactured and installed by Concrete Doors and Vaults (Pty) Ltd. Please direct enquiries to Dr Nicholas Papenfus at nicholas@damsforafrica.com, or 082 416 8958, 011 472 1520/8, or 011 475 2764.

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infrastructure that protects

Fig 6



Fig 7

