Fig 1

Fig 2

Fig 3

Gate Vault

A vault has been developed that offers exceptional protection against theft and vandalism of gate motors.

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 part of 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 an optional and 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 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 (see fig 6) if maintenance or replacement of the solar panel is required.

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 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 7

Fig 4

Fig 5

Fig 6