

Gate opener system



Gate and Security

Electric gate system (for example: [MIGHTY MULE MM562](#)) alone, however solid and imposing they may be, cannot guarantee a completely secure environment electric locks, are often needed to boost the locking effectiveness of the gate motors. Electric gates are recommended to be used in combination with other security features to install a full security system. A few of these features are closed circuits with security cameras, additional gates in conjunction with the main gate, electronic keycards and keypads, security guards.

Aside from the additional security features that should go with parking barrier gates, electric security gates often offer safety features like sensors that determine when there is an obstruction to prevent the electronic gate from swinging into a vehicle or closing on somebody's hands. To prevent the electronic gates from being damaged by irresponsible drivers driving fast speed bumps are also commonly placed before gate entrances to slow down vehicles.

Safety Regulations in Europe

All installations must meet with the Machinery directive 2006/42/EC with EN13241-1 being the regulations concerning gates. The installer of the gate is responsible for the conformity to regulation, not the manufacturer. The two main EN regulations that then apply are EN 12453 which describes the safety levels that should be observed when installing a gate and EN12445 which describes the testing method that must be undertaken. The major points are the maximum amount of force at certain test points. Example - a maximum of 400N of force can be applied in the last 50, 300 and 500 mm of travel of a gate, after the initial impact the force must drop to 150N within 0.75 of a second and reduce to 25N within 5 seconds. During the mid travel of a gate the allowable force is 1400N. A full risk assessment of the gates must take place with all crush, cutting points shown to the client with appropriate protection devices offered, a recommended maintenance program should also be provided. Finally the installer must confirm that all electrical equipment fitted has the European CE mark all the time. To conform to these regulations the gate system must be checked with a calibrated force tester and the full results kept in a technical file for 7 years. If the gate is not tested it does not comply. Most gate kits can be fitted with safety equipment so that these limits are achieved and so cover that part of EN13241-1.

Two recent incidents in the UK when children were killed by sliding gates have resulted in the UK Health and Safety department issuing a Gate Safety Bulletin.