

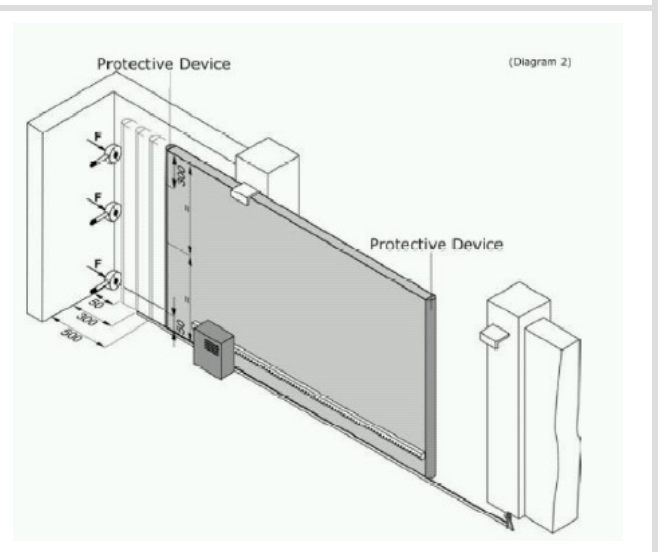
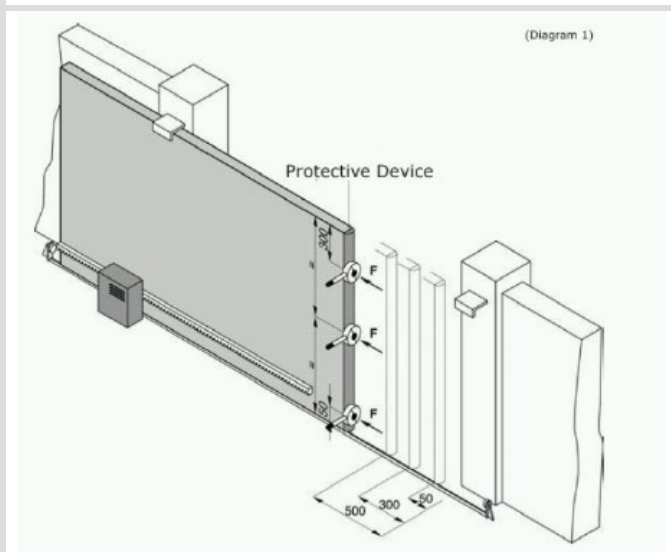


The following information is provided as an overview of the testing procedure involved for compliance to BS - EN12445 Machine Directive (Industrial, commercial and garage doors and gates. Safety in use of power operated doors. Test methods). Compliance testing to this standard applies to ALL new automatic gates installed, and also should be carried out to any retro - fit installations on existing gates. (All information is provided as guidance only and is referenced from official regulation documentation; EDS (Electrical-Data-Security) Ltd accepts no responsibility for any errors or omissions in this document. The full standard is available for purchase from the British Standard Institute. The installer of a new gate system should carry out a full risk assessment of the site where the gate is to be fitted both before and after the installation. The following guide describes the testing procedure for automatic sliding and swing gates.

### Sliding Gate Test Points

A typical sliding gate closing scenario is shown in the diagram (1) below, the test points required by this standard are indicated and must be carried out as follows : - Vertically testing points to be measured are 50mm from bottom, 300mm from top and then halfway up the gate (up to a height of 2.5M). Distances from closing position are also measured at 500mm, 300mm & 50mm. Each measurement point is tested 3 times and the average value is used, there are a total of 27 measurements to make using an EN12445 approved testing device. If the average test results exceed 400N in force an appropriate protective device (e.g. resistive Safety Edge) should be fitted to the gate and the tests carried out again.

The tests are repeated for the opening phase of the gate if an obstruction or opening post is in place (diagram 2). If the average test results exceed 400N in force an appropriate protective device (e.g. resistive Safety Edge) should be fitted to the gate and the tests carried out again.

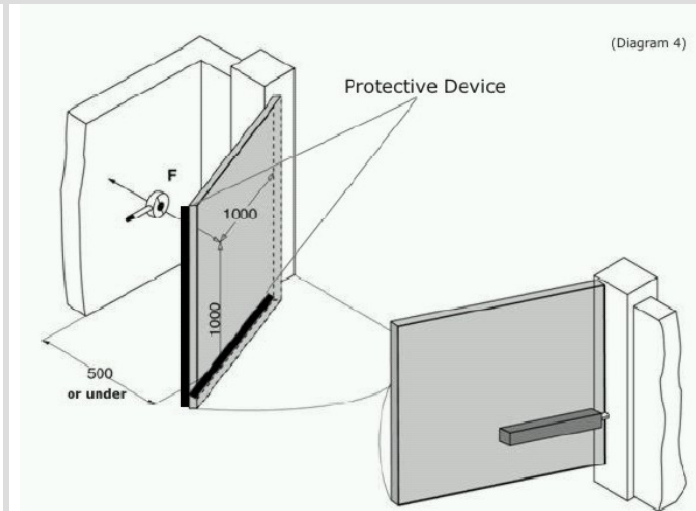
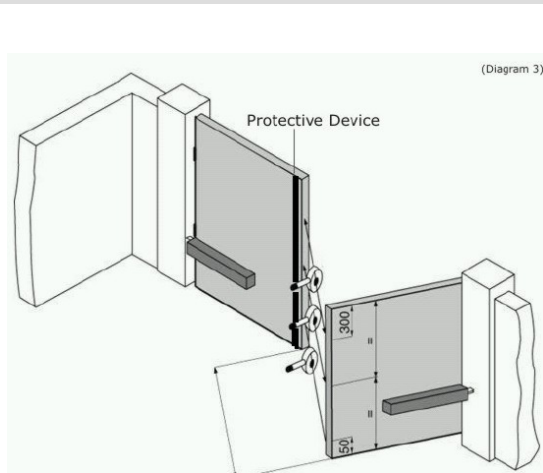


## Swing Gate Test Points

A typical swing gate closing scenario is shown in the diagram (3) below, the test points required by this standard are indicated and must be carried out as follows : - Vertically testing points to be measured are 50mm from bottom, 300mm from top and then halfway up the gate (up to a height of 2.5M). Distances from closing position are also measured at 500mm, 300mm & 50mm. Each measurement point is tested 3 times and the average value is used, there are a total of 27 measurements to make using an EN12445 approved testing device. If the average test results exceed 400N in force an appropriate protective device (e.g. resistive Safety Edge) should be fitted to the gate and the tests carried out again.

Tests are also to be carried out for the opening phase of the gate if obstructions such as a wall, fence or post are within 500mm of the gates fully opening position. In this case a single measurement point should be selected either 1000mm from the ground or at the most prominent point of the gate (See diagram 4).

If the average test results exceed 400N in force an appropriate protective device (e.g. resistive Safety Edge) should be fitted to the gate and the tests carried out again.



## Call EDS For a Quotation to Carry out The Necessary Tests on your Gates

We offer a free obligation quotation to carry out the force tests as required and if acceptable, will then carry out the tests and provide a written report with force test results and a quotation to carry out any remedial works in order to bring the gate(s) into line with current legislation.

Call now 0870 735 5050 or email us as [sales@edsuk.com](mailto:sales@edsuk.com) or visit our website [www.edsuk.com](http://www.edsuk.com)