Position and fix powered gates and barriers

Overview

This standard describes how to position and fix powered gates and barriers.

It covers the full range of powered gates (swinging and sliding) and barriers used in the fencing industry. The installer should follow the approved manufacturer's course for the type of powered gate they are intending to install.

The standard covers the installation of powered gates and barriers to posts, in accordance with specifications.

NB The standard does not cover the electrical work required for automated gates and barriers, which should only be completed by a competent and qualified electrician.

This standard is suitable for fence installers.

Performance criteria

You must be able to:

1. carry out work in accordance with relevant environmental and health and safety legislation, risk assessment requirements and company policies and procedures
2. wear suitable clothing and personal protective equipment (PPE)
3. carry out all work in accordance with instructions and **specifications**
4. select and prepare the required tools and equipment
5. check to confirm that a safe working environment has been established
6. obtain powered **gate or barrier components** of the specified type, material, quality and grade
7. use industry-recommended working practices to prepare and assemble **gate or barrier components** to meet **specifications**
8. use industry-recommended working practices to position and fix powered gates or barriers securely
9. attach the power mechanism to the gate or barrier as per specifications
10. attach sensors and controllers as per **specifications**
11. confirm that the gate or barrier is properly aligned and levelled
12. check that the gate opens, closes and fastens correctly and make adjustments where required
13. confirm that the safety features on the gate or barrier are working correctly and in line with **specifications**
14. confirm that the customer is fully trained and aware of the gate or barrier operation, safety features and maintenance requirements
15. commission the powered gate or barrier in line with requirements
16. maintain the integrity of the protective finishes during fixing
17. use, maintain and store tools and equipment safely and in a clean and serviceable condition
18. dispose of waste and excess materials safely to minimise environmental risk, in accordance with the relevant legal requirements
19. carry out your work in a manner that causes minimal impact to the surrounding area, other users of the site and anyone else who may be affected

Knowledge and understanding

You need to know and understand:

1. the environmental and health and safety requirements associated with preparing, positioning and fixing powered gates and barriers
2. the hazards and risks involved in the installation of powered gates and barriers, paying attention to pinch points and entrapment
3. the type of clothing and personal protective equipment (PPE) suitable for the task
4. the requirements and procedures for gaining access to the work site
5. the specific requirements for permit-to-work schemes
6. the types of signs and protective barriers used by the fencing industry
7. the reasons for traffic management when working adjacent to highways and other transport systems
8. where to obtain the instructions and **specifications** required to carry out the work
9. the types of tools and equipment used for positioning and fixing powered gates or barriers, and how to prepare, use and maintain these safely and correctly
10. the relevant legal requirements for the use of powered tools and equipment
11. the components required for the type of powered gate or barrier you are installing and their purpose
12. the methods used for assembling **gate or barrier components**
13. how to identify and assess the weight and centre of balance of gates or barriers
14. the methods used for fixing powered gates or barriers to posts
15. the methods used for aligning gates and barriers so that they open, close and fasten correctly
16. the requirements for safety features on powered gates and barriers
17. the checks to carry out to confirm that the safety features are working correctly
18. the commissioning process for a powered gate or barrier
19. the hand over process to the customer
20. how to take a powered gate or barrier out of service if it is dangerous
21. the different types of protective finishes, why they are used and

the methods of maintaining their integrity during fixing

22. how to deal with any difficulties arising during the project within the limits of your responsibility
23. the relevant legal requirements controlling the disposal of waste and excess materials
24. the storage requirements for tools and equipment
25. how to minimise the impact of your work on the surrounding area, other users of the site and anyone else who may be affected

Glossary

Gate or barrier components could include:

- gate
- barrier
- braces
- hinges
- latches
- bolts
- controllers
- power mechanisms
- sensors
- safety features

Specifications could include:

- plans/drawings
- schedules
- method statements
- Standard Operating Procedures (SOPs)
- manufacturer's guidelines
- customer requirements
- quality standards e.g. BSI, CE

Links to other NOS

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