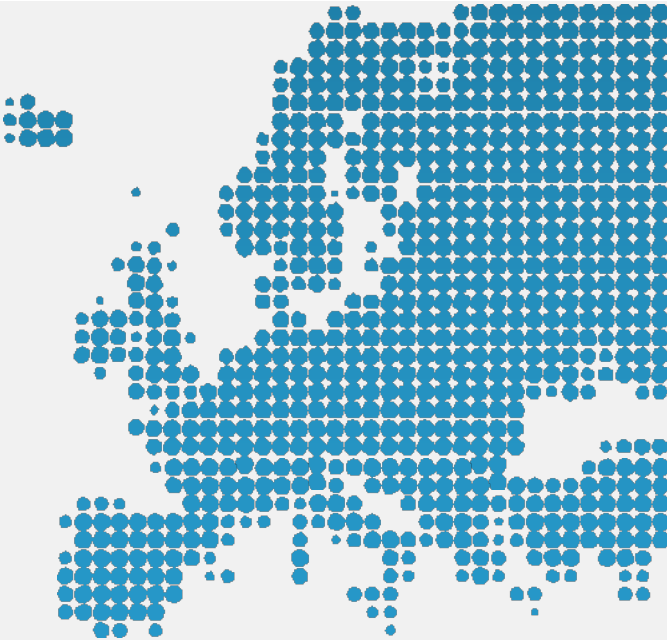


Guide for Maintenance, Repair, Upgrade and Replacement

of components or products of industrial / commercial / garage
doors and gates

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Contents

- 1 | The current safety situation in the market
- 2 | Product requirements of Maintenance, Repair, Upgrade and Replacement
- 3 | CE-marking, Declaration of Conformity, and Technical File
- 4 | Qualified service providers and competent service technicians

1. The current safety situation in the market

Due to gaps in the standards and regulations concerning the qualification of professional service provider / technicians and the frequency in maintenance needs, there are too many unsafe doors on the market.

Since 2005, with the implementation of the product standard for doors, the manufacturer is responsible for correct CE-marking and for the definition of adequate maintenance, maintenance intervals and the cycle time of spare parts, for the intended use of the equipment. After the product is put onto the market, the owner of the building is responsible for the safe and secure function of the door – this includes regular service.

E.D.S.F. is the only professional European Association that a qualified service provider can join. It provides a membership structure which relates to the level of experience and qualification held. Members of E.D.S.F. endorse the commitment of conforming to the Quality and Safety objectives of the Association.

One mission of the E.D.S.F. is the promotion of safety of the users of doors, and it therefore aims at raising the actual safety of the market to the level indicated by the latest standards defining the state of the art.

Therefore, E.D.S.F. defined this guideline to help manufacturers, owners and users to fulfil their tasks and improve understanding when maintaining, repairing, upgrading or replacing industrial, commercial, and garage doors.

2. Requirements on Products for Maintenance, Repair, Upgrade and Replacement

The European Product Standard for industrial / commercial / garage doors and gates and barriers EN 13241-1 states that the manufacturer is responsible for defining the service (maintenance) and replacement cycles for components or products.

Basically, when components or products are replaced during maintenance, repair or upgrading, it has to be ensured, as a minimum, that the safety, reliability, functionality, classification and durability level of the doors is maintained. In other words: keep the performance and don't add risks. The service provider is also obliged to offer the customer the 'state of the art' safety level.

Use of original components is preferred, but if non-original or 'look- alike' components are used which may affect the declared characteristics, or safety level, the evaluation of conformity shall be reviewed for applicability by a qualified service provider.

3. CE-marking, Declaration of Conformity and Technical File

When the existing safety, reliability, functionality, classification and durability level of the door is not kept, the product has to be CE-marked again. According to the Machinery Directive when:

- manually operated doors are changed into power operated doors
- an existing power operated door is moved to another place in the building
- hold to run operation is changed into impulse operation, or automatic closing is added
- components are replaced in a way which affects the declared characteristics
- when the original intended use is changed

The CE marking has to be done by the service provider, acting as the manufacturer. This includes a risk analysis establishing a technical file, and a signed Declaration of Conformity, in accordance with the Machinery Directive (2006/42/EG).

After the correct installation of the door / gate the building's owner is responsible for the safety function of the door – this includes regular service.

4. Qualified service providers and competent service technicians

Maintenance, repair, upgrade and replacement of components or products have to be performed by qualified service providers and competent service technicians.

Please note: the manufacturer knows its product best. Therefore, he can provide the relevant information about its product.

Training programs offered by the manufacturer or training programs offered by an association to which the manufacturer belongs and for which he provides product information are very well suited for acquiring expertise.

The following matrix for the content of the training shows the most important points

to be considered:

- Awareness of the chapters related to inspection, maintenance, repair and upgrading in the Product (and supporting) Standards such as EN 13241-1, EN 12453, Machinery Directive (2006/42/EC), Construction Products Regulation (305/2011/EC), and Health and Safety Directives such as: 89/391/EEC, 89/654/EEC and 89/655/EEC. Focus on Safety in Use, and CE-marking when upgrading and putting the machine into service.
- Awareness of the chapters related to inspection, maintenance, repair and upgrading in the national QHSE requirements for work and use of equipment on site, like e. g. BG (Germany), VCA (Netherlands).
- Understanding of the particular concepts as delivered in the market. Able to execute inspection, maintenance, repair and upgrading, as instructed by the manufacturer of the specific product working on, in a safe and efficient way. Focus on replacement of identical parts and final adjustment.
- Capability to registrate and report the work done in e. g. logbooks, checklists. Capability to advise the owner / user for replacements and improvements to be done to keep the products safe and in compliance with the relevant standards and regulations ("state of the art"). Capability to perform risk analyses and upgrade proposals in order to increase safety, comfort or efficiency level (incl. CE marking if needed).

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