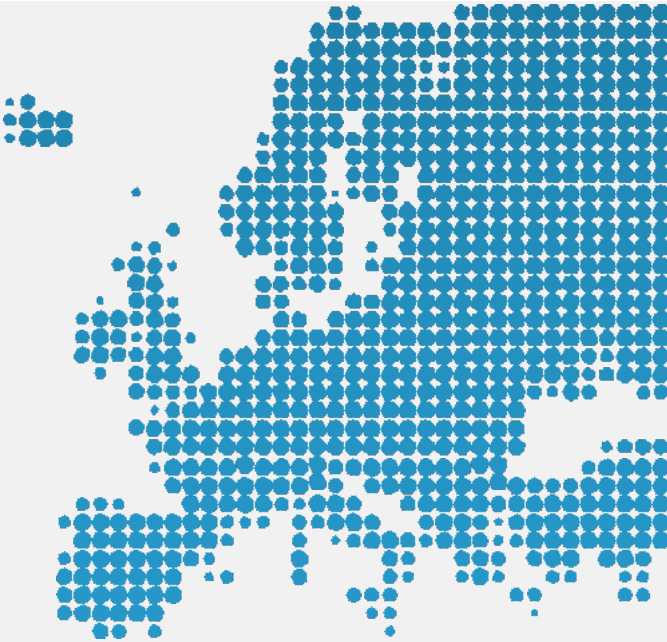


Guide for Maintenance, Repair, Upgrade and Replacement

of components or products of powered
pedestrian doorsets

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1. The current safety situation in the market

A powered pedestrian doorset is a machine. The machinery sector is an important part of the engineering industry and is one of the industrial mainstays of the EU economy. The social cost of the accidents caused directly using machinery can be reduced by inherently safe design and construction of machinery and by proper installation and maintenance. There are too many unsafe doors on the market which could cause injury to users or maintenance staff. This is due, on the one hand, to unqualified service providers and, on the other, to the lack of regular maintenance visits, which are required under EU standards. After the product is put into the market the owner of the building is responsible for the safe and secure functionality of the door – this includes ensuring regular servicing.

E.D.S.F. is the only professional European Association that qualified service providers can join. It provides a membership structure which guarantees that members hold appropriate experience and qualifications. Members of E.D.S.F. endorse the commitment of conforming to the quality and safety objectives of the association.

One key mission of the E.D.S.F. is the promotion of safety of the users of doors and therefore aims at raising the actual safety of the market to a level defined by the latest “state of the art” standards.

E.D.S.F. has produced this guideline to assist manufacturers, owners and users to fulfil their obligations and improve understanding when maintaining, repairing, upgrading or replacing powered pedestrian doorsets.

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

The European Standard EN 16005 for safety in use of powered pedestrian doorsets states that the manufacturer is responsible to define the service (maintenance) and replacement cycles for components or products. In general, the supply of spare parts is not specifically regulated by the provisions of the Machinery Regulation (EU) 2023/1230 and therefore remains primarily a matter of contractual agreement between the manufacturer/supplier and the user, unless replacement parts are required to maintain the safety of the machinery; and is thus a matter for contractual agreement between the seller/manufacturer and the buyer/user.

However, where parts subject to wear and tear need to be replaced to protect the health and safety of users, the minimum specifications of the appropriate spare parts must be given in the instructions.

Power operated pedestrian doorsets shall be designed in such a way that they can be installed, used, inspected, maintained and dismantled safely. Warning signs must be put up to alert users to any residual risks, where such risks have been identified.

The manufacturer (as defined in the Machinery Regulation (EU) 2023/1230) shall provide the instructions required by the Machinery Regulation (EU) 2023/1230, including information necessary for safe transport, installation, commissioning, operation, inspection, maintenance, repair, dismantling and, where applicable, disposal. Documents (whether in paper or electronic form) with instructions on how to correctly install and dismantle the power operated pedestrian doorset shall be provided where appropriate. Attention is paid to the description of hazardous areas, suitable protective equipment and residual risks.

All documentation relevant to the doorset, the installation procedure, the maintenance requirements and any incorporated diagrams, shall be legible and written in a language acceptable in the country in which the product is to be used and operated.

When components or products are replaced during maintenance, repair or upgrading, it shall be ensured that the replacement does not adversely affect the safety or compliance of the power operated pedestrian doorset. As a minimum, the safety, reliability, functionality, classification and durability of the doorset shall be maintained. Replacement components shall therefore provide an equivalent level of performance and shall not introduce new hazards.

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

When the existing safety, reliability, functionality, classification or durability level of the door may have been altered, the CE-marking must be evaluated and reconfirmed. According to the Machinery Regulation when:

- Manually operated doors are changed into power (electrically) operated doors
- An existing power (electrically) 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 evaluation and reconfirmation of the CE marking must be made by the installer and/or service provider. Supporting documentation must include a risk analysis, a technical file, and a signed Declaration of Conformity, in accordance with the Machinery Regulation. After the correct installation of the door the building owner¹⁾ is responsible for the safety function of the doorsets – this includes the obligation to ensure that the doorsets are regularly inspected and maintained.

¹⁾ In some countries the building's owner and the user are responsible for safety, e.g. if the building is rented.

4. Qualified service providers and competent service technicians

Routine maintenance instructions should highlight means of ensuring safe operation, long term reliability and working efficiency. A power operated pedestrian doorset (including protective devices and safety systems) shall be regularly maintained in accordance with the manufacturer's specification. This includes setting a minimum frequency for maintenance visits, as well as providing general instructions for both tasks that can be carried out by the owner without specialist knowledge and those that should be carried out by professionals; it also highlights maintenance work or tasks for which a certified service provider is required.

Recommended frequency for checking the correct operation of safety function and devices is, at least, once a year, however a more frequent regime may be necessary depending on the use and users of the door. For example, a high use door in a hospital or an aged care facility may require quarterly or monthly safety inspection. The maintenance instructions shall also inform the owner about the importance of keeping records of all maintenance, repair and replacement operations logbook.

At each maintenance visit, the service provider is obliged to inform the customer in writing about any risks related to the current/existing operation of the doorset and recommend actions to reduce any potential risks to the levels that are in compliance with the regulations (EU and local).

The service provider is also obliged to offer the customer on the latest safety and performance regulations or foreseen best practises. Installation instructions to be used solely by the professional installer - not intended to be handed over to the owner unless it is part of contractual agreement - must be written in any official language used in Europe and agreed upon between manufacturer and purchaser.

Maintenance, repair, upgrade and replacement of components or products must be performed by qualified service providers and competent service technicians as defined in E.D.S.F. guidelines 1 and 2.

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