

European standards for existing lifts: references

The preliminary remark to the Annex of Commission Recommendation 95/216/EC indicates that the following European standards may be applied, whenever possible, in order to obtain numerical values relating, in particular, to dimensions, tolerances, speeds or acceleration rates:

- **EN 81-1:1998+A3:2009** Safety rules for the construction and installation of lifts - Part 1: Electric lifts
- **EN 81-2:1998+A3:2009** Safety rules for the construction and installation of lifts - Part 2: Hydraulic lifts

The following European standard and technical specifications provide guidelines for national authorities, lift owners, lift inspection bodies and maintenance companies for improving the safety, accessibility and resistance against vandalism of existing lifts, with the aim of bringing the safety and accessibility of all existing passenger and goods-passenger lifts progressively towards today's state-of-the-art.

- **EN 81-80:2003** Safety rules for the construction and installation of lifts - Existing lifts - Part 80: Rules for the improvement of safety of existing passengers and good passenger lifts

It categorises hazards on the basis of a risk assessment, lists the high, medium and low risks and provides the corrective actions which can be applied progressively and selectively to eliminate the risks.

It enables each lift to be audited and the safety measures to be identified and implemented in a step-by-step fashion, according to the frequency and severity of any single risk.

- **CEN TS 81-82:2008** Safety rules for the construction and installation of lifts - Existing lifts - Part 82: Improvement of the accessibility of existing lifts for persons including persons with disability

It provides guidance to building owners, authorities and lift designers/manufacturers addressing in particular existing lifts installed in buildings where it is considered additional measures may be required to improve the accessibility of the lift and this way also the access to each level of the building.

Where due to practical reasons EN 81-70 (EN 81-70:2003 *Safety rules for the construction and installations of lifts - Particular applications for passenger and good passengers lifts - Part 70: Accessibility to lifts for persons including persons with disability*) cannot be fully applied, this technical specification provides alternative proposals to improve accessibility and use by persons including persons with disability.

It enables each lift to be audited to provide corrective actions to progressively and selectively improve, step by step, the level of accessibility of existing lifts towards today's state of the art.

- **CEN TS 81-83:2009** Safety rules for the construction and installation of lifts - Existing lifts - Part 83: Rules for the improvement of the resistance against vandalism

It provides guidance to building owners addressing in particular existing lifts installed in buildings where it is considered additional security or other measures may be required to protect against the risk of vandalism.

The building owner will need to consider the extent of additional protection required, as covered by the enclosed proposals, which may be adopted according to the environment in which the lift installation is situated and the type of vandalism that is likely to be experienced.

This document is based upon and referring to EN 81-71 (EN 81-71:2005+A1:2006 *Safety rules for the construction and installation of lifts - Particular applications to passenger lifts and goods passenger lifts - Part 71: Vandal resistant lifts*) and addresses additional protective measures against deliberate acts that may result in equipment damage or injury to persons.