



# European Elevator Norms

EN

81-28

## EN 81-28 – Emergency calls

The purpose of this standard is to improve communication in emergency situations in elevators. It eliminates the risk of passengers being entrapped due to malfunctions in elevator installation. This is accomplished by fitting all elevators with an emergency call system. This alarm system must be capable of establishing a two-way voice communication between people in an elevator cabin and a remote emergency (rescue) service. The EN 81-28 standard thus applies to all new and modernized elevators.

EN

81-70

## EN 81-70 – Barrier free elevators

EN 81-70 defines the minimum requirements for safe independent access and use of elevators by all passengers, including those with disabilities. It provides guidelines on how to best improve the accessibility on the approach to elevators, within elevator cars and while exiting elevators. This standard allows people with reduced mobility (pushchairs, wheelchairs, walking aids, etc.) or other disabilities (mental disability, sight and hearing impairment, etc.) to enter elevator cabins easily and operate elevators without limitations.

EN

81-71

## EN 81-71 – Vandal resistant elevators

The EN 81-71 standard defines the testing methodology and classification of elevators according to their vandal resistance. It entails special protective measures and security rules against acts that may result in damage to elevators or injury to passengers. Furthermore, this standard provides guidance to building designers, customers, etc., and requirements for design in projects requiring additional security in order to protect against the risk of vandalism.

EN

81-72

## EN 81-72 – Firefighter elevators

EN 81-72 deals with the significant hazards, hazardous situations and events relevant to firefighter elevators installed mostly in new buildings. They are primarily intended for use by passengers and thus may be used for firefighting and evacuation purposes under direct control of firefighters. These elevators can only operate within a protected environment. They are designed with additional protection, controls and signals enabling rescue from inside or outside elevator cars in case of fire.

EN

81-80

## EN 81-80 – Elevator modernization / hazard analysis

EN 81-80 SNEL (Safety Norm for Existing Lifts) improves the security of existing passenger and goods passenger elevators. The aim is to match the level of safety achieved by newly installed elevators. This standard defines rules for improving safety of existing elevators based on risk assessment and categorises various hazards and hazardous situations. It also lists corrective actions that can be implemented to progressively improve safety.