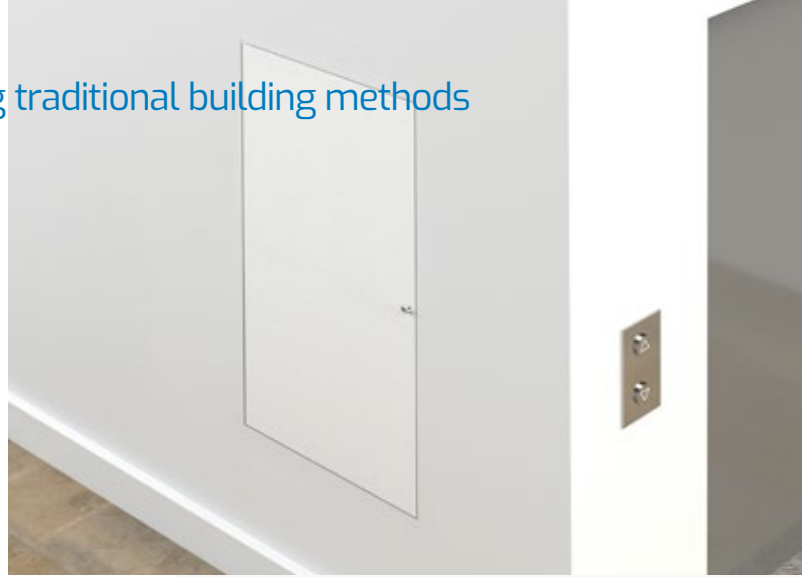


New Lift Standards

EN 81-20 and EN 81-50



Regulated by the CEN, the European Committee for Standardisation, the standards EN 81-20 and EN 81-50 replace EN 81-1 and EN 81-2 introduced in 1998.

These new standards began on 31st August 2017 and affect lifts installed after 1st September 2017. The standard EN 81-20 relates to goods or passenger lift installations and the standard EN 81-50 relates to features of tests, calculations, and examinations of lift components.

When multiple changes to the standards were made, the affected areas of the lift included main components such as doors, lift cars, shafts, pits, working areas for service personnel, refuge spaces, passenger rescue in case of entrapment, and building design. Additionally, any horizontal projection from a wall into the well or horizontal beam greater than 0.15m in width shall be protected from a person standing there. This does not include recesses within the wall created by a door aperture, only protrusions into the well.

How this relates to Quadra+ Lift Shaft

The system has been designed and tested by BRE (Building Research Establishment) to meet these new requirements for access, inspection, and rescue doors.



- › Emergency doors require min. height of 1.8m and min. width of 0.5m
- › Inspection doors shall have a maximum height and width of 0.5m
- › Machine-room and shaft access doors shall have a min. height of 2m and a min. width of 0.6m
- › Pulley-room access doors; min. height of 1.4m & min. width of 0.6m

EN1634-1 Fire Rating

The Quadra+ range of doors have been successfully tested to EN1634-1 for a duration of 120 minutes for Integrity as an uninsulated steel doorset.



Quadra+ Lift Shaft

Configuration options

Quadra+ LS1

Emergency Escape Doors

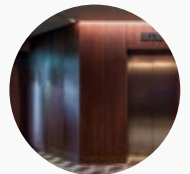
Min. size **500x1800mm**



Quadra+ LS2

Machine Room & Shaft Access Doors

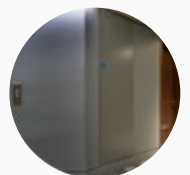
Min. size **600x2000mm**



Quadra+ LS3

Pulley Room Access Doors

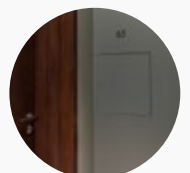
Min. size **600x1400mm**



Quadra+ LS4

Inspection Doors

Min. size **500x500mm**



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Continued—

BS EN 81-20:2020

Section 5.2.2.3 Access and emergency doors and inspection doors states the following in respect of performance requirements:

- A. Not open towards the inside of the well or Machine or pulley room.
- B. Be provided with a Key-operated lock, capable of being re-closed and relocked without a key.
- C. Be capable of being opened from inside the well, machine or pulley room without a key, even when locked.
- D. Be provided with an electric safety device in conformity with 5.11.2, checking closed position;

An electric safety device is not required in the case of access door(s) to machine and Pulley rooms and in the case of access door(s) to the pit (5.2.2.4), if the pit door(s) does not give access to a hazardous zone. This is regarded to be the case if the free vertical distance between the lowest parts of the car, counterweight or balancing weight including guide shoes, apron, etc. during normal operation and the bottom of the pit is at least 2m.

The presence of travelling cables, compensating ropes/chains and their equipment, tensioning pulleys for the overspeed governor and similar installations is not regarded as being hazardous.

- E. Be imperforate, satisfy the same requirements for mechanical strength as the landing car doors, and comply with the regulations relevant to the fire protection for the building concerned.
- F. Have a mechanical strength such that when a force of 1000N, being evenly distributed over an area of 0.30m x0.30m in round or square section is applied at right angles at any point from outside the well, it shall resist without elastic deformation greater than 15mm.

Quadra+ Lift Shaft has successfully been 3rd party tested to meet requirements; A. B. C. D. E. and F. of EN 80-20

Additionally as required to a soft impact body test carried out with the method in EN 81-20 Section 5.3.5.3.4. to impact test the door to ensure it meets the mechanical strength requirements of the landing car doors as specified in 5.2.2.3 E.)

Note The Quadra Lift Shaft is not supplied with an electrical safety device as this is normally specified and supplied by the lift control system supplier as it must communicate with this system. A compliant electric safety device therefore must be specified where required.

Outside the well, near the access doors, if any, there shall be a notice as shown:



Access Door signage required

For help and advice with your lift shaft access requirements; contact our experienced team.

call 020 3880 0339 **email** sales@selo-uk.com

Visit our website for further resources selo-uk.com/resources



call 020 3880 0339
email sales@selo-uk.com
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