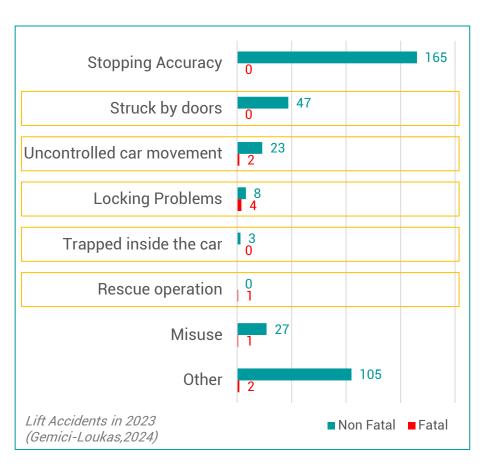


Asansor, Istanbul 2025

Setting the Stage: facts are friends





388 Total Accidents Reported (10 Fatal)



88 Door-Related Accidents (7 Fatal)

Linked to inadequate door protection systems.



95% Preventable Incidents

Proper safety measures can avoid most door accidents.

Current Regulatory Landscape: EN 81-20/50

EN 81-20

- Construction and installation standards.
- Door clearances, lighting, emergency operation.

EN 81-50

- Design rules, calculations, testing.
- Door strength, safety device performance.

ADDITIONAL STANDARDS

- EN 81-58: Fire resistance.
- EN 81-71: Vandalism resistance.
- . ..



WITTUR



EN 81-20/50: Ensuring Door Safety



1

STRENGTH & RIGIDITY

2

CLOSING FORCE LIMITATION

3

DOOR REOPENING 4

MOVEMENT PREVENTION

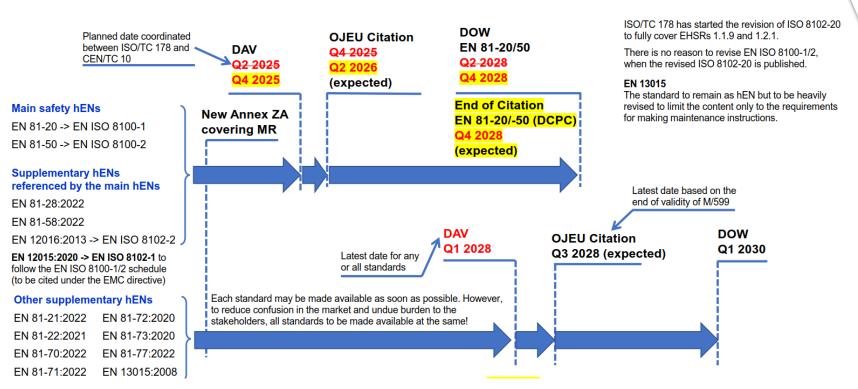
Static load tests verify door withstands forces Dynamic impact tests simulate collision Force measurement prevents crushing

Must reopen upon obstruction by means of light curtains Protects vulnerable users Car cannot move with open doors



The Future of Elevator Safety: Introducing ISO 8100







We, as Wittur, we're already testing our products for ISO 8100

ISO 8100-1: Key Technical Updates compared to EN81-20



Addition of requirements for vertically moving landing and car sliding doors

Addition of requirements for a movable platform in the shaft pit

Addition of requirements for suspension means other than steel wire ropes

Extension of the requirements for preventing hands from being drawn into doors

Inspection journey beyond the final stops

Coordination of the requirements for the brake with the overload limit values

Addition of requirements for automatic emergency release

Revision of the performance and monitoring of the engine brake

Addition of requirements for traction elevators with increased usable car area

Revision of the requirements for ladders for access to the shaft pit

Revision of the requirements for SILrated circuits (formerly PESSRAL) Definition of the classification of the fire behavior of electrical cables

Addition of requirements for compensating devices that extend into the protected space in the shaft pit into the shaft pit



ISO 8100-1: Key Technical Updates for Door Systems



1

REDUCED CLEARANCES

5mm max panel gaps vs 6mm in EN 81-20/50

J

GLASS DOOR FINGER PROTECTION

New requirements prevent finger dragging

2

ENHANCED RETAINERS

Detailed testing with lower guides removed

4

ROBUST LOCKING

Precise location and force testing specs



Ensuring a Safer Future



11

SAFETY FIRST

Elevator door safety is non-negotiable—prioritizing passenger protection must remain the industry's top commitment.



21

EVOLVING STANDARDS:

EN 81-20/50 sets a strong baseline, while ISO 8100 advances global alignment and continuous safety improvements.



31

SHARED RESPONSIBILITY

Achieving safety requires strict adherence to standards, regular maintenance, and continuous education across the industry.





Foster collaboration across the sector (manufacturers, installers, inspectors, associations) to uphold and advance safety standards

