

Correlation tables
between EN 81-20:2020 and (EN) ISO/FDIS 8100-1:2025
and
between EN 81-50:2020 and (EN) ISO/FDIS 8100-2:2025



(EN) ISO/FDIS 8100-1:2025 and (EN) ISO/FDIS 8100-2:2025 contain lot of technical and editorial changes compared to EN 81-20:2020 and EN 81-50:2020 (corresponding ISO 8100-1/2:2019) standards. Also structure of the standard and consequently the clause numbering has changed.

Purpose of this document is to help readers to find the clause text changes and corresponding content when comparing the standards.

Using this document, readers can

- Find correlation between clauses in ISO EN 81-20/50 and ISO 8100-1/2
- See whether clause has changed, deleted or added
- See if a separate introduction presentation provides further information

Document covers clause text of the requirements.

Comparison of Tables, Formulas and Figures are excluded.

Following parts of the standards are excluded or showed only in high level: Introduction, Scope, Annex(es) and Bibliography.

This document is aimed to be used as a help when finding correspondent requirements in the standards.

Document focuses to show the most relevant and important correlations. For practical reasons, document does not show all possible changes.

This document may not be used for setting any limitations, interpretations or used as a guide for application of the standards.

The reader is solely responsible to familiarize himself/herself with the actual clauses and text of the (EN) ISO 8100-1:2026 and (EN) ISO 8100-2:2026 for complete and accurate understanding of the changes and the formulation of the requirements.

Clause has been marked as

"Not changed" when clause text has not changed.

Clause title (header) or clause number changes are ignored.

"New" when corresponding requirements are not in the previous standards (EN 81-20 or EN 81-50)

"Changed" when the actual clause text has changed.

- If only clause number or clause title has changed, it is not marked as "Changed".

Note: It has not been evaluated, whether change is editorial (wording) or technical (changing the actual meaning).

All clause text changes are marked as "Changed"

"Deleted" when new standards ISO 8100-1/2 do not contain the requirement shown in previous standards (EN 81-20 or EN 81-50)

"Header only" when clause has only title, without direct clause text. Changes are not evaluated.

"More info" when a separate "Introduction to main changes" document gives further information.

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EN 81-20:2020		(EN) ISO/FDIS 8100-1:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
0, 0.1	Introduction		Introduction			X				
0.2	General remarks						X			
0.3	Principles						X			
0.4	Assumptions						X			
1	Scope	1	Scope			X			X	
2	Normative references	2	Normative references			X				
3	Terms and definitions	3	Terms and definitions			X			X	A separate document shows some changes as examples.
3.1	apron	3.1	apron	X						
3.2	authorized person						X			
-		3.2	automatic operation		X					
3.3	available car area						X			
-		3.3	automatic rescue operation		X					
3.4	balancing weight	3.6	balancing weight			X				
-		3.4	average probability of dangerous failure on demand PFDavg		X					
-		3.5	average frequency of a dangerous failure per hour PFH		X					
3.5	buffer	3.7	buffer			X				
3.6	car	3.8	car			X				
3.7	competent person						X			
-		3.9	carbon fibre reinforced polymer CFRP		X					
3.8	counterweight	3.1	counterweight			X				
3.9	direct acting lift	3.11	direct acting lift	X						
3.1	down direction valve	3.12	down direction valve	X						
3.11	drive control system	3.13	drive control system	X						
3.12	electrical anti-creep system	3.14	electrical anti-creep system			X				
-		3.15	electric safety device		X					
3.13	electric safety chain	3.16	electric safety chain			X				
3.14	full load pressure	3.17	full load pressure	X						
3.15	goods passenger lift	3.18	goods passenger lift			X				
3.16	guide rails						X			
3.17	headroom	3.19	headroom	X						
-		3.2	hold-to-run control device		X					
3.18	hydraulic lift	3.21	hydraulic lift			X				
3.19	indirect acting lift	3.22	indirect acting lift			X				
3.2	installer						X			
3.21	instantaneous safety gear	3.23	instantaneous safety gear			X				
3.22	jack	3.24	jack	X						
3.23	laminated glass						X			
3.24	levelling	3.25	levelling	X						
3.25	levelling accuracy	3.26	levelling accuracy			X				
3.26	lift machine	3.27	lift machine			X				
3.27	machine room	3.28	machine room			X				
3.28	machinery	3.29	machinery			X				
3.29	machinery space	3.30	machinery space			X				
-		3.31	machinery cabinet		X					
3.30	maintenance	3.32	maintenance			X				
-		3.33	minimum breaking force		X					
-		3.34	mission time		X					
3.31	non return valve	3.35	Non-return valve			X				
-		3.36	normal operation		X					
3.32	one-way restrictor	3.37	one-way restrictor			X				
3.33	overspeed governor	3.38	overspeed governor			X				
3.34	passenger	3.39	passenger			X				
3.35	pawl device	3.40	pawl device	X						
3.36	pit	3.41	pit	X						
3.37	positive drive lift (includes drum drive)	3.42	positive drive lift			X				
-		3.43	power cycle		X					
3.38	preliminary operation	3.44	preliminary operation			X				
3.39	pressure relief valve	3.45	Pressure relief valve			X				
3.40	programmable electronic system in safety related applications for lifts (PESSRAL)						X			
3.41	progressive safety gear	3.46	progressive safety gear			X				

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Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
3.42	pulley room	3.47	pulley room	X						
3.43	rated load	3.48	rated load			X				
3.44	rated speed	3.49	rated speed			X				
3.45	re-levelling	3.50	re-levelling			X				
3.46	rescue operations						X			
-		3.51	residual breaking force		X					
3.47	restrictor	3.52	restrictor			X				
3.48	rupture valve	3.53	rupture valve			X				
3.49	safety circuit	3.54	safety circuit			X				
3.50	safety component						X			
3.51	safety gear	3.55	safety gear			X				
3.52	safety integrity level SIL	3.56	safety integrity level			X				
3.53	safety rope	3.57	safety rope	X						
3.54	shut-off valve	3.58	shut-off valve	X						
3.55	single acting jack						X			
-		3.59	SIL-rated circuit		X					
3.56	sling						X			
3.57	special tool	3.60	special tool			X				
3.58	stopping accuracy	3.61	stopping accuracy	X						
-		3.62	tension member		X					
3.59	traction lift	3.63	traction lift			X				
3.60	travelling cable	3.64	travelling cable			X				
3.61	type examination certificate						X			
3.62	unintended car movement						X			
3.63	unlocking zone	3.65	unlocking zone			X				
3.64	user	3.66	user			X				
3.65	well	3.67	well			X				
5	Safety requirements and/or protective measures	4	Safety requirements and/or protective measures				X			
5.1	General	4.1	General				X			
5.1.1		4.1.1				X				
-		4.1.2			X					
5.1.2		4.1.3, 4.1.4				X				
5.2	Well, machinery spaces and pulley rooms	4.2	Well, machinery spaces and pulley rooms				X			
5.2.1	General provisions	4.2.1	General provisions			X				
5.2.1.2	Exclusive use of the well, machine and pulley rooms						X			
5.2.1.3							X			
5.2.1.4	Lighting	4.2.1.2	Lighting			X		X		
5.2.1.5	Electric equipment in the pit and in machinery spaces and pulley rooms	4.2.1.3	Electric equipment in the pit area, in machinery spaces and in pulley rooms			X		X		
5.2.1.6	Emergency release	4.2.1.4	Alert initiation			X		X		
5.2.1.7	Handling of equipment	B.2.4	Forces, lift disposition, equipment			X				
5.2.1.8	Strength of walls, floors and ceilings	4.2.1.5	Forces			X				
5.2.1.9	Surfaces of walls, floors and ceilings						X			
5.2.2	Access to well and to machinery spaces and pulley rooms						X			
-		4.2.2	Access to the pit				X			
5.2.2.4		4.2.2.1			X					
-		4.2.2.2			X					
5.2.2.5		ISO 8100-1 Annex B				X				
5.2.3	Access and emergency doors - Access trap doors - Inspection doors	4.2.3	Access doors, emergency doors, access trap doors and inspection doors			X		X		
5.2.4	Notices	4.2.4	Notices			X				
5.2.5	Well	4.2.5	Well				X			
5.2.5.1	General provisions	4.2.4	General provisions				X			
5.2.5.1.1, 5.2.5.1.2, 5.2.5.1.4		4.2.5.1.1, 4.2.5.1.2, 4.2.5.1.4		X						
5.2.5.2	Well enclosure	4.2.5.2	Well enclosure			X				
5.2.5.2.2	Totally enclosed well	4.2.5.2.2				X				
-		4.2.5.2.3			X					
5.2.5.2.2.2		4.2.5.2.4				X		X		
5.2.5.2.3	Partially enclosed well	ISO 8100-1 Annex B				X				

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Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.2.5.3	Construction of the walls of the well and landing doors facing a car entrance	4.2.5.3	Clearances related to the walls of the well and landing doors facing a car entrance			X		X		
5.2.5.4	Protection of any spaces located below the well	4.2.5.4	Protection of any spaces located below the well			X				
5.2.5.5	Protection in the well	4.2.5.5	Protection in the well			X		X		
5.2.5.6	Guided travel of car, counterweight and balancing weight	4.2.5.6	Guided travel of car, counterweight and balancing weight							
5.2.5.6.2	In the case of traction lifts	4.2.5.6.2	In the case of traction lifts			X				
5.2.5.6.3	In the case of positive drive lifts	4.2.5.6.3	In the case of positive drive lifts			X				
5.2.5.6.4	In the case of hydraulic lifts	4.2.5.6.4	In the case of hydraulic lifts			X				
5.2.5.7	Refuge spaces on car roof and clearances in headroom	4.2.5.7	Refuge spaces on car roof and clearances in headroom			X				
5.2.5.8	Refuge spaces and clearances in the pit	4.2.5.8	Refuge spaces and clearances in the pit			X		X		
5.2.6	Machinery spaces and pulley rooms	4.2.6	Machinery spaces and pulley rooms							
5.2.6.1	General provisions	4.2.6.1	General provisions			X				
5.2.6.2	Notices and instructions	4.2.6.2	Notices			X				
5.2.6.3	Machinery in a machine room	4.2.6.3	Machinery in a machine room			X				
5.2.6.3.1	Traction sheave in the well	4.2.6.3.1	Traction sheave in the well			X				
5.2.6.3.2	Dimensions	4.2.6.3.2	Dimensions			X		X		
-		4.2.6.3.3	Protection of openings in the slab and the floor		X			X		
5.2.6.4	Machinery inside the well	4.2.6.4	Machinery inside the well				X			
5.2.6.4.1	General provisions	4.2.6.4.1	General provisions			X				
5.2.6.4.2	Dimensions of working areas inside the well	4.2.6.4.2	Dimensions of working areas inside the well			X		X		
5.2.6.4.3	Working areas in the car or on the car roof	4.2.6.4.3	Working from inside the car or from the car roof			X		X		
5.2.6.4.4	Working areas in the pit	4.2.6.4.4	Working from the pit			X		X		
5.2.6.4.4.3							X			
5.2.6.4.5	Working areas on a platform	4.2.6.4.5	Working from a platform					X		
5.2.6.4.6	Working areas outside of the well	4.2.6.4.6	Working areas outside of the well			X				
5.2.6.5	Machinery outside of the well	4.2.6.5	Machinery outside of the well and machine room			X				
5.2.6.5.2	Working area	4.2.6.5.2	Working area			X				
5.2.6.6	Devices for emergency and test operations	4.2.6.6	Devices for emergency operation and tests			X				
5.2.6.7	Construction and equipment of pulley rooms	4.2.6.7	Construction and equipment of pulley rooms				X			
5.2.6.7.1	Dimensions	4.2.6.7.1	Dimensions			X				
5.2.6.7.2	Openings	4.2.6.7.2	Protection of openings in the slab and the floor		X					
5.3	Landing doors and car doors	4.3	Landing and car doors				X			
5.3.1	General provisions	4.3.1	General provisions			X		X		
5.3.2	Height and width of entrances	4.3.2	Height and width of entrances							
5.3.2.1	Height	4.3.2.1	Height			X				
5.3.2.2	Width	4.3.2.2	Width	X						
5.3.3	Sills, guides, door suspension	4.3.3	Sills, guides, door suspension				X			
5.3.3.1	Sills	4.3.3.1	Sills			X				
5.3.3.2	Guides	4.3.3.2	Guides			X				
5.3.3.3	Suspension of vertically sliding doors	4.3.3.3	Suspension of vertically sliding doors			X				
5.3.4	Horizontal door clearances	4.3.4	Horizontal door clearances			X		X		
5.3.5	Strength of landings and car doors	4.3.5	Strength of landing and car doors			X				
5.3.5.2	Behaviour under fire conditions	B.2.2.				X				
5.3.5.3	Mechanical strength	4.3.5.1				X		X		
5.3.6	Protection in relation to door operation	4.3.6	Protection in relation to door operation				X			
5.3.6.1	General	4.3.6.1	General			X				
5.3.6.2	Power operated doors	4.3.6.2	Power-operated doors				X			
5.3.6.2.1	General	4.3.6.2.1	General			X		X		
5.3.6.2.2	Horizontally sliding doors	4.3.6.2.2	Horizontally sliding doors and folding doors				X			
5.3.6.2.2.1	Automatic power operated doors	4.3.6.2.2.1	Automatic power-operated doors			X		X		
5.3.6.2.2.2	Non-automatic power operated doors	4.3.6.2.2.2	Non-automatic power-operated doors			X				
5.3.6.2.2.3	Vertically sliding doors	4.3.6.2.3	Vertically sliding doors			X		X		
-		4.3.6.2.3.2	Automatic power-operated vertically sliding doors		X					
-		4.3.6.2.3.3	Non-automatic power-operated vertically sliding doors		X					
5.3.6.2.3	Other types of doors						X			
5.3.6.3	Reversal of closing movement						X			

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Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.3.7	Local landing lighting and "car here" signal lights						X			
5.3.7.2	"Car here" indication	4.3.7	"Car here" indication			X				
5.3.8	Locking and closed landing door check	4.3.8	Locking and closed landing door check				X			
5.3.8.1	Protection against the risk of falling	4.3.8.1	Protection against the risk of falling			X				
5.3.8.2	Protection against shearing	4.3.8.2	Protection against shearing			X				
5.3.9	Locking and emergency unlocking of landing and car doors	4.3.9	Locking and emergency unlocking of landing and car doors				X			
5.3.9.1	Landing door locking devices	4.3.9.1	Landing door locking devices			X		X		
-		4.3.9.1.12			X			X		
5.3.9.2	Car door locking devices	4.3.9.2	Car door locking devices			X				
5.3.9.3	Emergency unlocking	4.3.9.3	Emergency unlocking			X				
5.3.9.4	Electric safety device for proving the landing door closed	4.3.9.4	Electric safety device for proving the landing door closed			X				
5.3.10	Requirements common to devices for proving the locked condition and the closed condition of the landing door	4.3.10	Requirements common to devices for proving the locked condition and the closed condition of the landing door			X				
5.3.11	Sliding landing doors with multiple, mechanically linked panels	4.3.11	Sliding landing doors with multiple, mechanically linked panels			X				
5.3.12	Closing of automatically operated landing doors	4.3.12	Closing of automatically operated landing doors			X				
5.3.13	Electric safety device for proving the car doors closed	4.3.13	Electric safety device for proving the car door closed			X				
5.3.14	Sliding or folding car doors with multiple, mechanically linked panels	4.3.14	Sliding or folding car door with multiple, mechanically linked panels			X				
5.3.15	Opening the car door	4.3.15	Opening the car door			X				
5.4	Car, counterweight and balancing weight	4.4	Car, counterweight and balancing weight				X			
5.4.1	Height of car	4.4.1	Height of car			X				
5.4.2	Available car area, rated load, number of passengers	4.4.2	Available car area, rated load, number of passengers				X			
5.4.2.1	General case	4.4.2.1	General case			X				
5.4.2.2	Goods passenger lifts	4.4.2.2	Special cases for goods passenger lifts			X		X		
5.4.2.2.3						X				
5.4.2.3	Number of passengers	4.4.2.3	Number of passengers			X		X		
5.4.3	Walls, floor and roof of the car	4.4.3	Walls, floor and roof of the car			X		X		
5.4.4	Car door, floor, wall, ceiling and decorative materials	4.4.4	Car door(s), floor, wall, ceiling and decorative materials			X				
5.4.5	Apron	4.4.5	Apron			X				
5.4.6	Emergency trap doors and emergency doors	4.4.6	Emergency trap doors and emergency doors				X			
5.4.6.1		4.4.6.1	Emergency trap doors			X				
5.4.6.2		4.4.6.2	Emergency doors in the car			X		X		
5.4.7	Car roof	4.4.7	Car roof			X		X		
5.4.8	Equipment on top of the car	4.4.8	Equipment on top of the car			X		X		
5.4.9	Ventilation	4.4.9	Ventilation			X				
5.4.10	Lighting	4.4.10	Lighting			X				
5.4.11	Counterweight and balancing weight	4.4.11	Counterweight and balancing weight			X		X		
5.5	Suspension means, compensation means and related protection means	4.5	Suspension means, compensation means and related protection means				X			
5.5.1	Suspension means	4.5.1	Suspension means and related sheaves/drums/sprockets			X		X		
5.5.2	Sheave, pulley, drum and rope diameter ratios, rope/chain terminations	4.5.2	Minimum diameter ratio, safety factor, fatigue lifetime and suspension means terminations				X			
5.5.2.1		4.5.2.1	Bending diameter definition for tension members			X		X		
5.5.2.2		4.5.2.2	Safety factor of the suspension means			X		X		
5.5.2.3		4.5.2.3	Fatigue lifetime			X		X		
-		4.5.2.3.2	General discarding monitoring means operational requirements		X					
-		4.5.2.3.3	Bending counter		X					
-		4.5.2.3.3.2	Calculation of the number of bendings		X					
-		4.5.2.3.4	Suspension means physical strength monitoring		X					
-		4.5.2.3.5	Diameter reduction of steel wire ropes d<6 mm		X					
5.5.2.4		4.5.2.4	Connection between suspension means and terminations			X		X		
5.5.3	Rope traction	4.5.3	Suspension means traction/transmission			X				

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-		4.5.3.2	Emergency braking condition		X					
-		4.5.3.3	Car/counterweight stalled condition		X					
5.5.4	Winding up of ropes for positive drive lifts	4.5.4	Winding up of ropes for positive drive lifts							
5.5.5	Distribution of load between the ropes or the chains	4.5.5	Distribution of load between the suspension means			X			X	
5.5.6	Compensation means	4.5.6	Compensation means			X			X	
5.5.7	Protection for sheaves, pulleys and sprockets	4.5.7	Protection for sheaves, pulleys and sprockets			X				
5.5.8	Traction sheaves, pulleys and sprockets in the well	4.5.8	Traction sheaves, pulleys and sprockets			X				
-		4.5.9	Marking of suspension means and compensation means		X					
5.6	Precautions against free fall, excessive speed, unintended car movement and creeping of the car	4.6	Precautions against free fall, excessive speed, unintended car movement and creeping of the car				X			
5.6.1	General provisions	4.6.1	Application of protections means			X				
5.6.1.2		4.6.1.1	Protection means for traction lifts and positive drive lifts			X				
5.6.1.3		4.6.1.2	Protection means for hydraulic lifts			X				
5.6.2	Safety gear and its tripping means	4.6.2	Safety gear and its tripping means				X			
5.6.2.1	Safety gear	4.6.2.1	Safety gear							
5.6.2.1.1	General provisions	4.6.2.1.1	General provisions			X				
5.6.2.1.2	Conditions of use for different types of safety gear	4.6.2.1.2	Conditions of use for different types of safety gear			X				
5.6.2.1.3	Retardation	4.6.2.1.3	Retardation			X				
5.6.2.1.4	Release	4.6.2.1.4	Release			X				
5.6.2.1.5	Electrical checking	4.6.2.1.5	Electrical checking			X				
5.6.2.1.6	Constructional conditions	4.6.2.1.6	Constructional conditions			X				
5.6.2.2	Means of tripping the safety gear	4.6.2.2	Means of tripping the safety gear				X			
5.6.2.2.1	Tripping by overspeed governor	4.6.2.2.1	Tripping by overspeed governor				X			
5.6.2.2.1.1	General provisions	4.6.2.2.1.1	General provisions			X				
5.6.2.2.1.2	Response time	4.6.2.2.1.2	Response distance			X				
5.6.2.2.1.3	Overspeed governor ropes	4.6.2.2.1.3	Overspeed governor ropes			X				
5.6.2.2.1.4	Accessibility	4.6.2.2.1.4	Accessibility			X				
5.6.2.2.1.5	Possibility of tripping the overspeed governor	4.6.2.2.1.5	Possibility of tripping the overspeed governor			X				
5.6.2.2.1.6	Electrical checking	4.6.2.2.1.6	Electrical checking			X				
5.6.2.2.1.7		4.6.2.2.1.7	Verification			X				
5.6.2.2.1.8		4.6.2.2.1.8	Marking			X				
5.6.2.2.2	Tripping by breakage of suspension means	4.6.2.2.2	Tripping by breakage of suspension means			X				
5.6.2.2.3	Tripping by safety rope	4.6.2.2.3	Tripping by safety rope			X				
5.6.2.2.4	Tripping by downward movement of the car	4.6.2.2.4	Tripping by downward movement of the car				X			
5.6.2.2.4.1	Tripping by rope	4.6.2.2.4.1	Tripping by rope			X				
5.6.2.2.4.2	Tripping by lever	4.6.2.2.4.2	Tripping by lever			X				
-		4.6.2.2.5	Tripping by electrical means		X			X		
-		4.6.2.2.5.1	General		X					
-		4.6.2.2.5.2	Response time		X					
-		4.6.2.2.5.3	Accessibility		X					
-		4.6.2.2.5.4	Electrical checking		X					
-		4.6.2.2.5.5	Tripping speed		X					
-		4.6.2.2.5.6	Tripping element		X					
-		4.6.2.2.5.7	Design and verification		X					
-		4.6.2.2.5.8	Marking		X					
5.6.3	Rupture valve	4.6.3	Rupture valve				X			
5.6.3.1		4.6.3.1				X				
5.6.3.2		4.6.3.2				X			X	
5.6.3.3		4.6.3.3		X						
5.6.3.4		4.6.3.4				X				
5.6.3.5		4.6.3.5				X				
5.6.3.6		4.6.3.6				X				
5.6.3.7		4.6.3.7		X						
5.6.3.8		4.6.3.8				X				
5.6.3.9		4.6.3.9				X				
5.6.4	Restrictors	4.6.4	Restrictors				X			
5.6.4.1		4.6.4.1		X						
5.6.4.2		4.6.4.2				X			X	
5.6.4.3		4.6.4.3		X						
5.6.4.4		4.6.4.4			X					

EN 81-20:2020		(EN) ISO/FDIS 8100-1:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.6.4.5		4.6.4.5		X						
5.6.4.6		4.6.4.6			X					
5.6.4.7		4.6.4.7			X					
5.6.5	Pawl device	4.6.5	Pawl device		X					
5.6.6	Ascending car overspeed protection means	4.6.6	Ascending car overspeed protection means		X			X		
5.6.7	Protection against unintended car movement	4.6.7	Protection against unintended car movement		X			X		
5.7	Guide rails	4.7	Guide rails				X			
5.7.1	Guiding of the car, counterweight or balancing weight	4.7.1	Guiding of the car, counterweight or balancing weight		X					
5.7.2	Permissible stresses and deflections	4.7.2	Forces and load cases				X			
5.7.2.1	General provisions	4.7.2.1	General provisions		X					
5.7.2.2	Load cases	4.7.2.2	Load cases		X			X		
5.7.2.3	Forces on guide rails	4.7.2.3	Forces on guide rails		X			X		
5.7.3	Combination of loads and forces	4.7.3	Combination of masses and forces		X					
5.7.4	Impact factors	4.7.4	Impact factors							
5.7.4.1,	Safety device operation	4.7.4.1	Safety device operation		X					
5.7.4.2	Normal operation	4.7.4.2	Load case running		X					
5.7.4.3	Auxiliary parts fixed to the guide rail and/ or other operational scenarios					X		X		
5.7.4.5	Permissible stresses	4.7.5	Permissible stresses and deflections		X					
5.7.4.6	Permissible deflections	4.7.5.2	Permissible deflections		X			X		
5.7.4.7	Calculation	4.7.5.3	Calculation		X					
5.8	Buffers	4.8	Buffers				X			
5.8.1	Car and counterweight buffers	4.8.1	General provisions		X			X		
5.8.2	Stroke of car and counterweight buffers	4.8.2	Stroke of buffers				X			
5.8.2.1	Energy accumulation type buffers	4.8.2.1	Energy accumulation type buffers				X			
5.8.2.1.1	Buffers with linear characteristics	4.8.2.1.1	Buffers with linear characteristics		X					
5.8.2.1.2	Buffers with nonlinear characteristics	4.8.2.1.2	Buffers with non-linear characteristics		X					
5.8.2.2	Energy dissipation type buffers	4.8.2.2	Energy dissipation type buffers		X					
5.9	Lift machinery and associated equipment	4.9	Lift machinery and associated equipment				X			
5.9.1	General provision	4.9.1	General provision		X			X		
5.9.2	Lift machine for traction lifts and positive drive lifts	4.9.2	Lift machine for traction lifts and positive drive lifts				X			
5.9.2.1	General provisions	4.9.2.1	General provisions		X			X		
5.9.2.2	Braking system	4.9.2.2	Braking system				X			
5.9.2.2.1	General provisions	4.9.2.2.1	General provisions		X					
5.9.2.2.2	Electro-mechanical brake	4.9.2.2.2	Machine brake		X			X		
5.9.2.3	Emergency operation	4.9.2.3	Emergency operation		X			X		
5.9.2.4	Speed	4.9.2.4	Speed		X					
5.9.2.5	Removing the power which can cause rotation of the motor	4.9.2.5	Removing the power which can cause rotation of the motor				X			
5.9.2.5.1	General	4.9.2.5.1	General				X			
5.9.2.5.2	Motors supplied directly from AC or DC mains by contactors	4.9.2.5.2	Motors supplied directly from A.C. or D.C. mains by contactors		X					
5.9.2.5.4	AC or DC motor supplied and controlled by static elements	4.9.2.5.3	A.C. or D.C. motor supplied and controlled by static elements		X			X		
5.9.2.6	Control devices and monitoring devices	4.9.2.6	Control devices and monitoring devices		X					
5.9.2.7	Motor run time limiter	4.9.2.7	Motor run time limiter		X					
5.9.3	Lift machine for hydraulic lifts	4.9.3	Lift machine for hydraulic lifts							
5.9.3.1	General provision	4.9.3.1	General provision				X			
5.9.3.1.1		4.9.3.1.1		X						
5.9.3.1.2		4.9.3.1.2			X					
5.9.3.1.3		4.9.3.1.3		X						
-		4.9.3.1.4			X					Hydraulic fluids was in EN 81-20, 0.4.22
5.9.3.2	Jack	4.9.3.2	Jack				X			
5.9.3.2.1	Calculations of cylinder and ram	4.9.3.2.1	Calculations of cylinder and ram				X			
5.9.3.2.1.1	Pressure calculations	4.9.3.2.1.1	Pressure calculations		X					
5.9.3.2.1.2	Buckling calculations	4.9.3.2.1.2	Buckling calculations		X			X		
5.9.3.2.1.3	Tensile stress calculations	4.9.3.2.1.3	Tensile stress calculations		X					
5.9.3.2.2	Connection car/ram (cylinder)	4.9.3.2.2	Connection car/ram (cylinder)	X						
5.9.3.2.3	Limitation of the ram stroke	4.9.3.2.3	Limitation of the ram stroke	X						
5.9.3.2.4	Cushioned stop	4.9.3.2.4	Cushioned stop	X						
5.9.3.2.5	Means of protection	4.9.3.2.5	Means of protection				X			
5.9.3.2.5.1		B.2.5.3			X					

EN 81-20:2020		(EN) ISO/FDIS 8100-1:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.9.3.2.5.1		4.9.3.2.5.1		X						
5.9.3.2.6	Telescopic jacks	4.9.3.2.6	Telescopic jacks		X					
5.9.3.3	Piping	4.9.3.3	Piping				X			
5.9.3.3.1	General	4.9.3.3.1	General				X			
5.9.3.3.1.1		4.9.3.3.1.1			X			X		
5.9.3.3.1.2		4.9.3.3.1.2			X			X		
5.9.3.3.2	Rigid pipes	4.9.3.3.2	Rigid pipes				X			
5.9.3.3.2.1		4.9.3.3.2.1			X			X		
5.9.3.3.2.2		4.9.3.3.2.2		X						
5.9.3.3.3	Flexible hoses	4.9.3.3.3	Flexible hoses				X			
5.9.3.3.3.1		4.9.3.3.3.1			X					
5.9.3.3.3.2		4.9.3.3.3.2			X			X		
5.9.3.3.3.3		4.9.3.3.3.3			X					
5.9.3.3.3.4						X		X		
5.9.3.4	Stopping the machine and checking its stopped condition	4.9.3.4	Stopping the lift machine and checking its stopped condition				X			
5.9.3.4.1	General	4.9.3.4.1	General		X					
5.9.3.4.2	Upwards motion	4.9.3.4.2	Upwards motion		X			X		
5.9.3.4.3	Downwards motion	4.9.3.4.3	Downwards motion		X			X		
5.9.3.4.4	Checking of the stopped condition	4.9.3.4.4	Checking of the stopped condition		X					
5.9.3.5	Hydraulic control and safety devices	4.9.3.5	Hydraulic control				X			
5.9.3.5.1	Shut-off valve	4.9.3.5.1	Shut-off valve				X			
5.9.3.5.1.1		4.9.3.5.1.1		X						
5.9.3.5.1.2		4.9.3.5.1.2			X					
5.9.3.5.2	Non-return valve	4.9.3.5.2	Non-return valve	X						
5.9.3.5.3	Pressure relief valve	4.9.3.5.3	Pressure relief valve				X			
5.9.3.5.3.1		4.9.3.5.3.1			X					
5.9.3.5.3.2		4.9.3.5.3.2			X					
5.9.3.5.3.3		4.9.3.5.3.2			X					
5.9.3.5.4	Direction valves	4.9.3.5.4	Direction valves	X						
5.9.3.5.5	Filters	4.9.3.5.5	Filters		X					
5.9.3.6	Checking the pressure	4.9.3.6	Checking the pressure				X			
5.9.3.6.1		4.9.3.6.1		X	X					
5.9.3.6.2		4.9.3.6.2		X						
5.9.3.7	Tank	4.9.3.7	Tank		X					
5.9.3.8	Speed	4.9.3.8	Speed		X					
5.9.3.9	Emergency operation	4.9.3.9	Emergency operation				X			
5.9.3.9.1	Moving the car downwards	4.9.3.9.1	Moving the car downwards				X			
5.9.3.9.1.1		4.9.3.9.1.1			X					
5.9.3.9.1.2,		4.9.3.9.1.2,		X						
5.9.3.9.1.3,		4.9.3.9.1.3,								
5.9.3.9.1.4		4.9.3.9.1.4								
5.9.3.9.1.5		4.9.3.9.1.5			X					
5.9.3.9.1.6		4.9.3.9.1.6			X					
5.9.3.9.2	Moving the car upwards	4.9.3.9.2	Moving the car upwards				X			
5.9.3.9.2.1		4.9.3.9.2.1			X					
5.9.3.9.2.2,		4.9.3.9.2.2,		X						
5.9.3.9.2.3		4.9.3.9.2.3								
5.9.3.9.2.4		4.9.3.9.2.4			X					
5.9.3.9.3	Checking of the car position	4.9.3.9.3	Checking of the car position		X			X		
5.9.3.10	Motor run time limiter	4.9.3.10	Motor run time limiter				X			
5.9.3.10.1		4.9.3.10.1		X						
5.9.3.10.2		4.9.3.10.2			X					
5.9.3.10.3		4.9.3.10.3			X					
5.9.3.10.4		4.9.3.10.4			X			X		
5.9.3.11	Protection against overheating of the hydraulic fluid	4.9.3.11	Protection against overheating of the hydraulic fluid	X						
5.10	Electric installations and appliances	4.10	Electric installations and appliances				X			
5.10.1	General provisions	4.10.1	General provisions				X			
5.10.1.1	Limits of application	4.10.1.1	Limits of application		X			X		
5.10.1.2	Protection against electric shock	4.10.1.2	Protection against electric shock					X		
5.10.1.2.1	General	4.10.1.2.1	General		X					
5.10.1.2.2	Basic protection (protection against direct contact)	4.10.1.2.2	Basic protection (protection against direct contact)		X			X		
5.10.1.2.3	Additional protection	4.10.1.2.3	Additional protection		X					
5.10.1.2.4	Protection against residual voltages	4.10.1.2.4	Protection against residual voltages							
-		4.10.1.2.5	Warning sign		X					

EN 81-20:2020		(EN) ISO/FDIS 8100-1:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.10.1.3	Insulation resistance of the electrical installation (HD 60364-6:2007)	4.10.1.3	Insulation resistance of the electrical installation			X				
5.10.2	Incoming supply conductor terminations	4.10.2	Incoming supply conductor terminations			X				
5.10.3	Contactors, contactor relays, components of safety circuits	4.10.3	Contactors, contactor relays, components of safety circuits				X			
5.10.3.1	Contactors and contactor relays	4.10.3.1	Contactors and contactor relays			X				
5.10.3.2	Components of safety circuits	4.10.3.2	Components and devices used in or connected to the electric safety chain			X				
5.10.4	Protection of electrical equipment	4.10.4	Protection of electrical equipment			X				
5.10.5	Main switches	4.10.5	Main switch, supply disconnecting devices and isolating devices			X		X		
5.10.6	Electric wiring	4.10.6	Electric wiring				X			
5.10.6.1	Conductors and cables	4.10.6.1	Conductors and cables			X		X		
5.10.6.2	Cross-sectional area of conductors	4.10.6.2	Cross-sectional area of conductors			X				
5.10.6.3	Wiring practices	4.10.6.3	Wiring practices			X				
5.10.6.4	Connectors	4.10.6.4	Connectors							
5.10.7	Lighting and socket outlets	4.10.7	Lighting and socket outlets			X				
5.10.8	Control of the supply for lighting and socket outlets	4.10.8	Control of the supply for lighting and socket outlets			X				
5.10.9	Protective earthing	4.10.9	Protective earthing			X				
4.10.10	Identification of electrical components	5.10.10	Electrical identification			X				
5.11	Protection against electric faults; failure analysis; electric safety devices	4.11	Protection against electric faults; failure analysis; electric safety devices				X			
5.11.1	Protection against electric faults; failure analysis	4.11.1	Protection against electric faults; failure analysis			X		X		
5.11.2	Electric safety devices	4.11.2	Electric safety devices				X			
5.11.2.1	General provisions	4.11.2.1	General provisions			X		X		
5.11.2.2	Safety contacts	4.11.2.2	Safety contacts			X		X		
5.11.2.3	Safety circuits	4.11.2.3	Safety circuits			X		X		
5.11.2.4	Operation of electric safety devices	4.11.2.4	SIL-rated circuits		X	X		X		
-		4.11.2.4.2	Software		X			X		
-		4.11.2.4.3	Parametrization		X			X		
5.11.2.5	Actuation of electric safety devices						X			
5.11.2.6	Programmable electronic systems in safety related applications (PESSRAL)						X			
5.12	Controls - Final limit switches - Priorities	4.12	Electrical Controls				X			
5.12.1	Control of lift operations	4.12.1	Control of lift operations				X			
5.12.1.1	Control of normal operation	4.12.1.1	Normal operation			X		X		
5.12.1.1.2		4.12.1.1.2	Indication of the landing			X				
5.12.1.1.3		4.12.1.1.3	Stopping accuracy			X				
5.12.1.1.4		4.12.1.1.4	Door re-open button							
-		4.12.1.1.5	Delayed start		X					
5.12.1.2	Load control	4.12.1.2	Load control			X		X		
5.12.1.3	Monitoring the normal slowdown of the machine in case of reduced buffer stroke	4.12.1.3	Monitoring the normal slowdown of the lift machine in case of reduced stroke buffer			X		X		
5.12.1.4	Control of levelling, re-levelling and preliminary operation with doors not closed and locked	4.12.1.4	Control of levelling, re-levelling and preliminary operation with doors not closed and locked			X				
5.12.1.5	Control of inspection operation	4.12.1.5	Inspection operation				X	X		
5.12.1.5.1	Design requirements	4.12.1.5.1	Control interface			X				
5.12.1.5.2	Functional Requirements	4.12.1.5.2	Control of inspection operation			X				
5.12.1.5.2.2	Return to normal operation of the lift	4.12.1.5.3	Return to automatic operation of the lift		x					
5.12.1.5.2.4	Inspection control station(s)	4.12.1.5.4	Inspection operation control devices designations			X				
5.12.1.6	Control of emergency electrical operation	4.12.1.6	Emergency electrical operation			X		X		
5.12.1.6.2, 5.12.1.6		4.12.1.6.2	Control of emergency electrical operation		X					
5.12.1.7	Protection for maintenance operations	4.12.1.7	Protection for maintenance operations			X				
5.12.1.8	Landing and car door bypass device	4.12.1.8	Landing and car door bypass device			X		X		
5.12.1.8.3		4.12.1.8.3				X				
5.12.1.9	Prevention of normal operation of the lift with faulty door contact circuits	4.12.1.9	Prevention of automatic operation of the lift with faulty circuits for checking closed and locked position of doors			X				

EN 81-20:2020		(EN) ISO/FDIS 8100-1:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.12.1.10	Electrical anti-creep system (see Table 12)	4.12.1.10	Electrical anti-creep system (see Table 16)			X				
5.12.1.11	Stopping devices	4.12.1.11	Stopping devices	X		X			X	
-		4.12.1.12	Control of automatic rescue operation		X				X	
5.12.2	Final limit switches	4.12.2	Final limit switches				X			
5.12.2.1	General	4.12.2.1	General			X				
5.12.2.2	Actuation of the final limit switches	4.12.2.2	Actuation of the final limit switches			X				
5.12.2.3	Method of operation of final limit switches	4.12.2.3	Method of operation of final limit switches			X				
5.12.3	Emergency alarm device and intercom system	4.12.3	Alert initiation and intercom system			X			X	
6	Verification of the safety requirements and/or protective measures	5	Verification of the safety requirements and/or protective measures				X			
6.1	Technical compliance documentation						X			
6.2	Verification of design	5.1	Verification methods			X			X	
6.3	Examinations and tests before putting into service	5.2	Specific examinations and tests on installed lift			X				
6.3.1	Braking system (5.9.2.2)	5.2.2	Braking system (4.9.2.2)			X			X	
6.3.2	Electric installation	5.2.3	Electric installation			X				
6.3.3	Checking of the traction (5.5.3)	5.2.4	Checking of the traction (4.5.3)			X				
6.3.4	Car safety gear (5.6.2)	5.2.5	Car safety gear (4.6.2)			X			X	
6.3.5	Counterweight or balancing weight safety gear (5.6.2)	5.2.6	Counterweight or balancing weight safety gear (4.6.2)			X			X	
6.3.6	Pawl device (5.6.5)	5.2.7	Pawl device (4.6.5)			X				
6.3.7	Buffers (5.8.1, 5.8.2)	5.2.8	Buffers (4.8)			X			X	
6.3.8	Rupture valve (5.6.3)	5.2.9	Rupture valve (4.6.3)			X				
6.3.9	Restrictor/one-way restrictor (5.6.4)	5.2.10	Restrictor/one-way restrictor (4.6.4)			X				
6.3.10	Pressure test	5.2.11	Pressure test	X						
6.3.11	Ascending car overspeed protection means (5.6.6)	5.2.12	Ascending car overspeed protection means (4.6.6)			X			X	
6.3.12	Stopping of the car at landings and levelling accuracy (5.12.1.1.4)	5.2.13	Stopping of the car at landings and levelling accuracy (4.12.1.1.3)			X				
6.3.13	Protection against unintended car movement (5.6.7)	5.2.14	Protection against unintended car movement (4.6.7)			X			X	
6.3.14	Protection against falling/shearing (5.3.9.3.4)	5.2.15	Protection against falling/shearing (4.3.9.3.4)			X				
-		5.2.16	Balancing of vertically sliding door (4.3.3.3.5)		X				X	
-		5.2.17	Counterweight balance (4.5.3)		X				X	
-		5.2.18	Balancing weight balance (4.5.3)		X				X	
7	Information for use	6	Information for use							
7.1	General	6.1	General			X				
7.2	Instruction manual	6.2	Instructions				X			
7.2.1	General	6.2.1	General			X				
7.2.2	Normal use	6.2.2	Basic data and characteristics			X			X	
7.2.3	Maintenance	6.2.3	Operating information for use			X				
7.2.4	Examinations and tests	6.2.4				X			X	
7.3	Logbook	6.3	Logbook			X			X	
Annex A	List of the electric safety devices	Annex A	List of the electric safety devices			X				
Annex B	Technical compliance documentation						X			Part of the content has been moved to ISO 8100-1 Clause 6
Annex C	Periodic examinations and tests, examinations and tests after an important modification or after an accident						X			
Annex D	(informative) Machinery spaces – Access						X			Part of the content has been moved to ISO 8100-1 Annex B
Annex E	(informative) Building interfaces	Annex B	Information on the building-related conditions in which the lift is installed			X			X	
Annex F	Pit access ladder	Annex C	Pit access ladder			X			X	
-		Annex D	Relationship between this document and ISO 8100-20:2018		X					
-		Annex E	Operations overview		X					
Annex ZA	Relationship between this European Standard and the essential requirements of Directive 2014/33/EU aimed to be covered	Annex ZA	Relationship between this European Standard and the essential requirements of Directive 2014/33/EU aimed to be covered			X			X	

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
-	Introduction		Introduction			X				
1	Scope	1	Scope			X				
2	Normative references	2	Normative references			X				
3	Terms and definitions	3	Terms and definitions			X				
3.1	approved body						X			
3.2	safety component						X			
3.3	type examination certificate						X			
4	List of significant hazards						X			
5	Design rules, calculations, examinations and tests	4	Design rules, calculations, verifications and tests					X		
5.1	General provisions for type examinations of safety components						X			
5.1.1	Object and extent of the tests						X			
5.1.2	General provisions							X		
5.1.2.1							X			
5.1.2.2							X			
5.1.2.3							X			
5.1.2.4							X			
5.1.2.5							X			
5.1.2.6		4.1	General			X				
5.2	Type examination of landing and car door locking devices	4.2	Verification of landing and car door locking devices					X		
5.2.1	General provisions							X		
5.2.1.1	Field of application						X			
5.2.1.2	Documents to be submitted							X		
5.2.1.2.1	Schematic arrangement drawing with description of operation						X			
5.2.1.2.2	Assembly drawing with key						X			
5.2.1.3	Test samples						X			
5.2.2	Examination and tests	4.2.1	Verifications and tests					X		
5.2.2.1	Examination of operation	4.2.1.1	Verification of operation			X				
5.2.2.2	Mechanical tests	4.2.1.2	Mechanical tests					X		
5.2.2.2.1	General	4.2.1.2.1	General			X			X	
5.2.2.2.2	Endurance test	4.2.1.2.2	Endurance test			X			X	
5.2.2.2.3	Static test	4.2.1.2.3	Static test			X			X	
5.2.2.2.4	Dynamic test	4.2.1.2.4	Dynamic test			X				
5.2.2.3	Criteria for the mechanical tests	4.2.1.3	Criteria for the mechanical tests			X			X	
5.2.2.4	Electrical test	4.2.1.4	Electrical test					X		
5.2.2.4.1	Endurance test of contacts	4.2.1.4.1	Endurance test of safety contacts	X						
5.2.2.4.2	Test of ability to break circuit	4.2.1.4.2	Test of ability to break circuit					X		
5.2.2.4.2.1	General	4.2.1.4.2.1				X				
5.2.2.4.2.2		4.2.1.4.2.2				X				
5.2.2.4.2.3		4.2.1.4.2.3				X				
5.2.2.4.2.4		4.2.1.4.2.4				X				
5.2.2.4.3	Test for resistance to leakage currents							X		
5.2.2.4.4	Examination of clearances and creepage distances	4.2.1.4.3	Verification of clearances and creepage distances	X						
5.2.2.4.5	Examination of the requirements appropriate to safety contacts and their accessibility	4.2.1.4.4	Verification of the protection against direct contact			X				
5.2.3	Test particular to certain types of locking devices	4.2.2	Test particular to certain types of locking devices					X		
5.2.3.1	Locking device for horizontally or vertically sliding doors with several panels	4.2.2.1	Locking device for horizontally or vertically sliding doors with several panels			X				
5.2.3.2	Flap type locking device for hinged door	4.2.2.2	Flap type locking device for hinged door			X				
5.2.4	Type examination certificate	4.2.3	Instructions			X				
5.3	Type examination of safety gear	4.3	Verification of safety gear					X		
5.3.1	General provisions	4.3.1	General provisions			X				
5.3.2	Instantaneous safety gear	4.3.2	Instantaneous safety gear					X		
5.3.2.1	Test samples	4.3.2.1	Test samples			X				
5.3.2.2	Test	4.3.2.2	Testing					X		

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.3.2.2.1	Method of test	4.3.2.2.1	Method of test			X				
5.3.2.2.2	Test procedure	4.3.2.2.2	Test procedure			X				
5.3.2.2.3	Documents	4.3.2.2.3	Documents				X			
5.3.2.2.3.1	Two charts shall be drawn up as follows	4.3.2.2.3.1	Two charts shall be drawn up as follows:			X				
5.3.2.2.3.2		4.3.2.2.3.2		X						
5.3.2.3	Determination of the permissible mass	4.3.2.3	Determination of the permissible mass				X			
5.3.2.3.1	Energy absorbed by the safety gear	4.3.2.3.1	Energy absorbed by the safety gear			X		X		
5.3.2.3.2	Permissible mass	4.3.2.3.2	Permissible mass			X				
5.3.3	Progressive safety gear	4.3.3	Progressive safety gear				X			
5.3.3.1	Statement and test sample						X			
5.3.3.2	Test	4.3.3.1	Testing				X			
5.3.3.2.1	Method of test	4.3.3.1.1	Method of test				X			
5.3.3.2.1.1		4.3.3.1.1.1		X						
5.3.3.2.1.2		4.3.3.1.1.2		X						
5.3.3.2.2	Test procedure	4.3.3.1.2	Test procedure				X			
5.3.3.2.2.1	Safety gear certified for a single mass	4.3.3.1.2.1	Safety gear for a single mass			X				
5.3.3.2.2.2	Safety gear certified for different masses	4.3.3.1.2.2	Safety gear for different masses			X				
5.3.3.2.3	Determination of the braking force of the safety gear	4.3.3.1.3	Determination of the braking force of the safety gear				X			
5.3.3.2.3.1	Safety gear certified for a single mass	4.3.3.1.3.1	Safety gear for a single mass			X				
5.3.3.2.3.2	Safety gear certified for different masses	4.3.3.1.3.2	Safety gear for different masses			X				
5.3.3.2.4	Checking after the tests	4.3.3.1.4	Checking after the tests			X				
5.3.3.3	Calculation of the permissible mass	4.3.3.2	Calculation of the permissible mass				X			
5.3.3.3.1	Safety gear certified for a single mass	4.3.3.2.1	Safety gear for a single mass			X				
5.3.3.3.2	Safety gear certified for different masses	4.3.3.2.2	Safety gear for different masses				X			
5.3.3.3.2.1	Adjustment in stages	4.3.3.2.2.1	Adjustment in stages	X						
5.3.3.3.2.2	Continuous adjustment	4.3.3.2.2.2	Continuous adjustment	X						
5.3.3.4	Possible modification to the adjustments						X			
5.3.4	Comments	4.3.4	Additional verifications			X				
5.3.5	Type examination certificate	4.3.5	Instructions			X				
5.4	Type examination of overspeed governors	4.4	Verification of overspeed governors				X			
5.4.1	General provisions	4.4.1	General provisions			X				
5.4.2	Check on the characteristics of the overspeed governor	4.4.2	Check on the characteristics of the overspeed governor				X			
5.4.2.1	Test samples	4.4.2.1	Test samples			X				
5.4.2.2	Test	4.4.2.2	Testing				X			
5.4.2.2.1	Method of test	4.4.2.2.1	Method of test			X		X		
5.4.2.2.2	Test procedure	4.4.2.2.2	Test procedure			X		X		
5.4.2.2.3	Interpretation of the test results	4.4.2.2.3	Assessment of the test results			X				
5.4.3	Type examination certificate	4.4.3	Instructions			X				
5.5	Type examination of buffers	4.5	Verification of buffers							
5.5.1	General provisions	4.5.1	General provisions			X				
5.5.2	Samples to be submitted	4.5.2	Samples subject to test			X				
5.5.3	Test	4.5.3	Testing				X			
5.5.3.1	Energy dissipation buffers	4.5.3.1	Energy dissipation buffers				X			
5.5.3.1.1	Test procedure	4.5.3.1.1	Test procedure			X				
5.5.3.1.2	Equipment to be used	4.5.3.1.2	Equipment to be used				X			
5.5.3.1.2.1	Weights falling in free fall	4.5.3.1.2.1	Weights falling in free fall			X				
5.5.3.1.2.2	Recording equipment	4.5.3.1.2.2	Recording equipment			X				
5.5.3.1.2.3	Measurement of speed	4.5.3.1.2.3	Measurement of speed			X				
5.5.3.1.2.4	Measurement of the retardation	4.5.3.1.2.4	Measurement of the retardation			X				
5.5.3.1.2.5	Measurement of time	4.5.3.1.2.5	Measurement of time	X						
5.5.3.1.3	Ambient temperature	4.5.3.1.3	Ambient temperature	X						
5.5.3.1.4	Mounting of the buffer	4.5.3.1.4	Mounting of the buffer			X				
5.5.3.1.5	Filling of the buffer	4.5.3.1.5	Filling of the buffer			X				

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.5.3.1.6	Checks	4.5.3.1.6	Checks				X			
5.5.3.1.6.1	Checking of retardation	4.5.3.1.6.1	Checking of retardation			X				
5.5.3.1.6.2	Checking of the return of the buffer to the normal position	4.5.3.1.6.2	Checking of the return of the buffer to the normal position			X				
5.5.3.1.6.3	Checking of the liquid losses	4.5.3.1.6.3	Checking of the liquid losses			X				
5.5.3.1.6.4	Checking of the condition of the buffer after tests	4.5.3.1.6.4	Checking of the condition of the buffer after tests			X				
5.5.3.1.7	Procedure in the case of tests failing the requirements						X			
5.5.3.2	Energy accumulation buffers with non linear characteristics	4.5.3.2	Energy accumulation buffers with non-linear characteristics				X			
5.5.3.2.1	Test procedure	4.5.3.2.1	Test method			X				
5.5.3.2.2	Equipment to be used	4.5.3.2.2	Equipment to be used	X						
5.5.3.2.3	Ambient temperature	4.5.3.2.3	Ambient temperature	X						
5.5.3.2.4	Mounting of the buffer	4.5.3.2.4	Mounting of the buffer			X				
5.5.3.2.5	Number of tests	4.5.3.2.5	Test procedure			X				
5.5.3.2.6	Checks	4.5.3.2.6	Checks				X			
5.5.3.2.6.1	Checking of retardation	4.5.3.2.6.1	Checking of retardation			X				
5.5.3.2.6.2	Checking of the condition of the buffer after tests	4.5.3.2.6.2	Checking of the condition of the buffer after tests			X				
5.5.3.2.7	Procedure in the case of tests failing the requirements						X			
5.5.4	Type examination certificate	4.5.4	Instructions			X				
5.6	Type examination of safety circuits containing electronic components and/or programmable electronic systems (PESSRAL)	4.6	Verification of safety circuits and SIL-rated circuits				X			
5.6.1	General provisions	4.6.1	General provisions				X			
5.6.1.1	General	4.6.1.1	General			X				
5.6.1.2	Safety circuits containing electronic components	4.6.1.2	Information for verification			X		X		
5.6.1.3	Safety circuits based on programmable electronic systems	4.6.1.3	Documentation for SIL-rated circuits			X				
5.6.2	Test samples	4.6.2	Samples subject to test			X				
5.6.3	Tests	4.6.3	Tests				X			
5.6.3.1	Mechanical tests	4.6.3.1	Mechanical tests				X	X		
5.6.3.1.1	General	4.6.3.1.1	General			X				
5.6.3.1.2	Vibration	4.6.3.1.2	Vibration and shocks			X				
5.6.3.1.3	Bumping (EN 60068-2-27:2009)						X			
5.6.3.1.3.1	General	4.6.3.1.2	Vibration and shocks			X				
5.6.3.1.3.2	Partial shocking	4.6.3.1.2	Vibration and shocks			X				
5.6.3.1.3.3	Continuous shocking	4.6.3.1.2	Vibration and shocks			X				
5.6.3.2	Temperature tests (EN 60068-2-14:2009)	4.6.3.2	Temperature tests			X		X		
5.6.3.3	Failure analysis of electric safety circuits	4.6.3.3	Failure analysis of electric safety circuits			X		X		
5.6.3.4	Functional and safety test of PESSRAL	4.6.3.4	Functional and safety test of SIL-rated circuit			X		X		
5.6.4	Type examination certificate	4.6.4	Instructions			X				
5.7	Type examination of ascending car overspeed protection means	4.7	Verification of ascending car overspeed protection means				X			
5.7.1	General provisions	4.7.1	General provisions				X	X		
5.7.1.1							X			
5.7.1.2	The applicant shall state the range of use provided:						X			
5.7.1.3	The following documents shall be attached to the applications:						X			
5.7.2	Statement and test sample	4.7.2	Statement and test sample				X			
5.7.2.1		4.7.2.1				X				
5.7.2.2		4.7.2.2				X				
5.7.3	Test	4.7.3	Testing				X	X		
5.7.3.1	Method of test	4.7.3.1	Test method			X				
5.7.3.2	Test procedure	4.7.3.2	Test procedure				X			
5.7.3.2.1	General	4.7.3.2.1, 4.7.3.2.2.1	General			X		X		

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.7.3.2.2	Device certified for a single mass	4.7.3.2.2.2	Verification for a single mass			X			X	
5.7.3.2.3	Device certified for different masses	4.7.3.2.2.3	Verification for different masses			X			X	
-		4.7.3.2.2.4	Assessment of the test results		X					
5.7.3.2.4	Overspeed monitoring device	4.7.3.2.3	Speed monitoring element				X			
5.7.3.2.4.1	Test procedure	4.7.3.2.3.1	Test procedure			X			X	
5.7.3.2.4.2	Interpretation of the test results	4.7.3.2.3.2	Assessment of the test results			X				
-		4.7.3.2.4	Test procedure for self-monitoring		X					
5.7.3.3	Checking after the tests	4.7.3.3	Checking after the tests			X			X	
5.7.4	Possible modification to the adjustments						X			
5.7.5	Test report						X			
5.7.6	Type examination certificate	4.7.4	Instructions			X			X	
5.8	Type examination of unintended car movement protection means	4.8	Verification of unintended car movement protection means				X			
5.8.1	General provisions	4.8.1	General provisions			X			X	
5.8.2	Statement and test sample	4.8.2	Statement and test sample				X			
5.8.2.1		4.8.2.1				X				
5.8.2.2		4.8.2.2				X				
5.8.3	Test	4.8.3	Testing				X			
5.8.3.1	Method of Test	4.8.3.1	Test method			X	X			
5.8.3.2	Test procedure	4.8.3.2	Test procedure				X			
5.8.3.2.1	General	4.8.3.2.1	General			X				
5.8.3.2.2	Device certified for a single mass or torque or fluid pressure	4.8.3.2.2	Device verified for a single mass or torque or fluid pressure			X				
5.8.3.2.3	Device certified for different masses or torques or fluid pressures	4.8.3.2.3	Device verified for different masses or torques or fluid pressures			X				
5.8.3.2.4	Test procedure for unintended movement detection means	4.8.3.2.4	Test procedure for unintended movement detection means	X						
5.8.3.2.5	Test procedure for self-monitoring	4.8.3.2.5	Test procedure for self-monitoring	X						
5.8.3.3	Checks after the test	4.8.3.3	Checks after the test			X			X	
5.8.4	Possible modification to the adjustments						X			
5.8.5	Test report						X			
5.8.6	Type examination certificate	4.8.4	Instructions			X			X	
5.9	Type examination of rupture valve/one-way restrictor	4.9, 4.9.1	Verification of rupture valve/one-way restrictor			X				
5.9.1	General provisions	4.9.1	General provisions				X			
5.9.1.1	General						X			
5.9.1.2	Samples to be submitted	4.9.1	General provisions			X				
5.9.1.3	Test	4.9.2	Testing				X			
5.9.1.3.1	Test installation	4.9.2.1	Test installation			X				
5.9.1.3.2	Measuring instruments	4.9.2.2	Measuring instruments	X						
5.9.1.4	Test procedure	4.9.3	Test procedure				X			
5.9.1.4.1	General	4.9.3.1	General	X						
5.9.1.4.2	Simulation of a total piping failure	4.9.3.2	Simulation of a total piping failure				X			
5.9.1.4.2.1		4.9.3.2.1				X				
5.9.1.4.2.2		4.9.3.2.2				X				
5.9.1.4.3	Resistance against pressure	4.9.3.3	Resistance against pressure			X				
5.9.1.5	Interpretation of the tests	4.9.3.4	Assessment of the tests				X			
5.9.1.5.1	Closing operation	4.9.3.4.1	Closing operation			X				
5.9.1.5.2	Pressure resistance	4.9.3.4.2	Pressure resistance			X				
5.9.1.5.3	Readjustment						X			
5.9.1.6	Type examination certificate	4.9.4	Instructions			X				
5.10	Guide rails calculation	4.10	Guide rails calculation				X			
5.10.1	Range of calculation	4.10.1	Range of calculation			X				
5.10.2	Bending	4.10.2	Bending				X			
5.10.2.1		4.10.2.1				X				
-		4.10.2.2			X					
5.10.2.2		4.10.2.3				X				
5.10.2.3		4.10.2.4				X				
5.10.2.4		4.10.2.5				X				
5.10.2.5		4.10.2.6				X				

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
5.10.3	Buckling	4.10.3	Buckling		X					
5.10.4		4.10.4			X					
5.10.5	Flange bending	4.10.5	Flange bending		X					
5.10.6	Deflections	4.10.6	Deflections		X					
5.11	Evaluation of traction	4.11	Traction Calculation				X	X		
5.11.1	Introduction	4.11.1	General		X					
5.11.2	Traction calculation						X			
5.11.2.1	General	4.11.2.1	Car loading condition		X					
5.11.2.2	Evaluation of T1 and T2	4.11.2	Evaluation of T1 and T2				X			
5.11.2.2.1	Car loading condition	4.11.2.1	Car loading condition		X					
5.11.2.2.2	Emergency braking condition	4.11.2.2	Emergency braking condition		X					
5.11.2.2.3	Car/counterweight stalled condition	4.11.2.3	Car/counterweight stalled condition		X					
5.11.2.3	Evaluation of the friction factor						X			
5.11.2.3.1	Grooving considerations	4.13.6.1.2	Grooving considerations				X			
5.11.2.3.1.1	Semi-circular and semi-circular undercut grooves	4.13.6.1.2.1	Semi-circular and semi-circular undercut grooves (see Figure 9)		X					
5.11.2.3.1.2	V-grooves	4.13.6.1.2.2	V-grooves (see Figure 10)		X					
5.11.2.3.2	Friction coefficient consideration	4.13.6.1.3	Friction coefficient consideration (see Figure 11)		X					
5.11.3	Formulae for a general case	4.11.3	Formulae for a general case (see Figure 6)		X					
5.12	Evaluation of safety factor on suspension ropes for electric lifts	4.12	Evaluation of safety factor of steel wire ropes				X			
5.12.1	General	4.12.1	General		X					
5.12.2	Equivalent number Nequiv of pulleys	4.12.2	Equivalent number, Nequiv, of pulleys				X			
5.12.2.1	General	4.12.2.1	General	X						
5.12.2.2	Evaluation of Nequiv(t)	4.12.2.2	Evaluation of Nequiv(t)	X						
5.12.2.3	Evaluation of Nequiv(p)	4.12.2.3	Evaluation of Nequiv(p)	X						
5.12.3	Safety factor	4.12.3	Safety factor	X						
-		4.13	Verification of suspension means, compensation means and their terminations				X			
-		4.13.1	Material and Construction verification		X					
-		4.13.2	Verification of elastomeric coated traction sheave grooves		X			X		
-		4.13.3.1	General		X					
-		4.13.3.2	Termination and wedge security test		X					
-		4.13.3.3	Deformation test		X					
-		4.13.3.4	Fatigue test		X					
-		4.13.3.5	Tensile efficiency test		X					
-		4.13.3.6	Charpy impact test		X					
-		4.13.4	Minimum breaking force		X					
-		4.13.5	Fatigue lifetime testing		X			X		
-		4.13.6.1.1	General		X					
5.11.2.3.1.2	V-grooves	4.13.6.1.2.2	V-grooves (see Figure 10)		X					
-		4.13.6.2	Verification of friction factor				X			
-		4.13.6.2.1	General		X					
-		4.13.6.2.2	Friction factor verification for loading condition		X					
-		4.13.6.2.3	Friction factor verification for emergency braking condition		X					
-		4.13.6.2.4	Friction factor verification for stalled condition		X					
-		4.13.6.3	Elastomeric coated timing belts and sprockets		X					
-		4.13.7.1	General		X					
-		4.13.7.2	Slip test		X					
-		4.13.7.3	Emergency-stop test		X					
-		4.13.8.1	Adhesion strength test		X					
-		4.13.8.2	Heat radiation performance test		X					
-		4.13.8.3	Climate conditions exposure simulation		X					

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	Notes
-		4.13.9	Instructions		X					
-		4.14	Discard criteria for suspension means and sheaves		X			X		
-		4.14.1	General		X					
-		4.14.2.1	Steel wire ropes in combination with steel/cast iron traction sheaves		X					
-		4.14.2.2	Coated traction sheave		X					
-		4.14.2.3	Steel wire ropes with non-metallic replaceable traction sheave groove liners		X					
-		4.14.3.1	General		X					
-		4.14.3.2	Elastomeric coated traction belts		X					
-		4.14.3.3	Elastomeric coated steel wire ropes		X					
-		4.14.3.4	Elastomeric coated timing belts		X					
5.13	Calculations of rams, cylinders, rigid pipes and fittings	4.15	Calculations of rams, cylinders, rigid pipes and fittings				X			
5.13.1	Calculation against over pressure	4.15.1	Calculation against over pressure				X			
5.13.1.1	Calculation of wall thickness of rams, cylinders, rigid pipes and fittings	4.15.1.1	Calculation of wall thickness of rams, cylinders, rigid pipes and fittings			X				
5.13.1.2	Calculation of the base thickness of cylinders (examples)	4.15.1.2	Calculation of the base thickness of cylinders			X				
5.13.1.2.1	General	4.15.1.2.1	General			X		X		
5.13.1.2.2	Flat bases with relieving groove	4.15.1.2.2	Flat bases with relieving groove (see Figure 16)			X				
5.13.1.2.3	Cambered based	4.15.1.2.3	Cambered based (see Figure 17)			X				
5.13.1.2.4	Flat bases with welded flange	4.15.1.2.4	Flat bases with welded flange (see Figure 18)			X				
5.13.2	Calculations of the jacks against buckling	4.15.2	Calculations of the jacks against buckling				X			
5.13.2.1	General	4.15.2.1	General			X				
5.13.2.2	Single acting jacks	4.15.2.2	Single acting jacks (see Figure 19)			X				
5.13.2.3	Telescopic jacks without external guidance, calculation of ram	4.15.2.3	Telescopic jacks without external guidance, calculation of ram (see Figure 20)			X				
5.13.2.4	Telescopic jacks with external guidance	4.15.2.4	Telescopic jacks with external guidance (see Figure 21)			X				
5.14	Pendulum shock tests	4.16	Pendulum shock tests				X			
5.14.1	General	4.16.1	General	X						
5.14.2	Test rig	4.16.2	Test rig				X			
5.14.2.1	Hard pendulum shock device	4.16.2.1	Hard pendulum shock device			X				
5.14.2.2	Soft pendulum shock device	4.16.2.2	Soft pendulum shock device			X				
5.14.2.3	Suspension of the pendulum shock device	4.16.2.3	Suspension of the pendulum shock device			X				
5.14.2.4	Pulling and triggering device	4.16.2.4	Pulling and triggering device			X				
5.14.2.5, 5.14.2.5.1	Test samples	4.16.2.5	Test samples			X				
5.14.2.5.2							X			
5.14.3	Tests	4.16.3	Tests				X			
5.14.3.1		4.16.3.1				X				
5.14.3.2		4.16.3.2				X				
5.14.3.3		4.16.3.3				X				
5.14.3.4		4.16.3.4				X				
5.14.3.5		4.16.3.5		X						
5.14.3.6		4.16.3.6		X						
5.14.4	Interpretation of the results	4.16.4	Assessment of the test results			X				
5.14.5	Test report	4.16.4	Assessment of the test results			X				
5.15	Electronic components - Failure exclusion	4.17	Electrical and electronic components — Fault exclusion			X		X		
5.16	Design rules for programmable electronic systems (PESSRAL)	4.18	Design rules for SIL-rated circuits			X		X		

EN 81-50:2020		(EN) ISO/FDIS 8100-2:2025								Notes
Clause(s)	Header	Clause(s)	Header	Not changed	New	Changed	Deleted	Header only	More info	
-		4.19	Verification of the tripping element				X	X		
-		4.19.1	General Provisions		X					
-		4.19.2	Check of the characteristics of the tripping element				X			
-		4.19.2.1	Testing				X			
-		4.19.2.1.1	Test method		X					
-		4.19.2.1.2	Test procedure		X					
-		4.19.2.1.3	Assessment of the test results		X					
-		4.19.3	Instructions		X					
Annex A	Model form of type examination certificate						X			
Annex B	Programmable electronic systems in safety related applications for lifts (PESSRAL)	Annex A	SIL-rated circuits			X			X	
Annex C	Example for calculation of guide rails	Annex B	Example for calculation of guide rails			X			X	
Annex D	Calculation of traction – Example	Annex C	Calculation of traction — Example			X				
Annex E	Equivalent number of pulleys Nequiv Examples	Annex D	Equivalent number of pulleys, Nequiv — Examples			X				
-		Annex E	Relationship between ISO 8100-20 and this document		X					

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