

DIN EN 81-71:2022-08 (E)

Safety rules for the construction and installation of lifts - Particular applications to passenger lifts and goods passenger lifts - Part 71: Vandal resistant lifts

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	List of significant hazards	7
5	Safety requirements and/or protective measures	8
5.1	General	8
5.2	Lift well	8
5.2.1	Well enclosure	8
5.2.2	Access and emergency doors - Access trap doors - Inspection doors	8
5.2.3	Ventilation	9
5.3	Machinery spaces, pulley rooms and machinery cabinets	9
5.4	Landing and car doors	10
5.4.2	Landing door security system - Category 2 lifts	11
5.4.3	Door coupling mechanism	11
5.4.4	Door reversal mechanism	12
5.4.5	Locking of car doors	12
5.4.6	Manipulation of door operator and locks	12
5.5	Car	12
5.5.1	Car bodywork, Interior and fixings	12
5.5.2	Car emergency doors and access trap doors	13
5.5.3	Car ventilation	13
5.5.4	Car lighting	13
5.6	Car and landing controls and control stations	13
5.6.1	Car and landing controls	13
5.6.2	Car and Landing Control Stations	13
5.6.3	Position indicators	14
5.7	Alarm sounder	14
5.8	Steel work	14
5.9	Signs and markings	14
6	Verification of safety requirements and/or protective measures	15
7	Information for use	17
Annex A (informative) Guidance to the selection of lift category		18
A.1	General	18
A.2	Examples of different user types	18
A.3	Other considerations	19
A.4	Lift performance	19
A.5	Corrosion protection	20
A.6	Durability of finishes	20
A.7	Protection of power supplies	20

Annex B (normative) Impact test	21
B.1 Equipment	21
B.2 Samples	21
B.3 Method	21
B.4 Result	21
Annex C (normative) Information sign for landing door security system	22
Annex D (informative) Additional advice for dealing with vandalism	23
Annex E (normative) Typical items used in vandalism	24
Annex F (normative) Fire tests	26
F.1 Equipment	26
F.2 Samples	26
F.3 Method	26
F.4 Results	26
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/33/EU aimed to be covered	28
Bibliography	30