

DIN EN 81-41:2011-06 (E)

Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 41: Vertical lifting platforms intended for use by persons with impaired mobility

Contents	Page
Foreword	4
Introduction	5
1 Scope	7
2 Normative references	8
3 Terms and definitions	9
4 List of significant hazards	13
5 Safety requirements and/or protective measures	16
5.1 General requirements for lifting platforms	16
5.2 Platform support/guide system (including any scissor mechanism)	20
5.3 Safety gear and over-speed governor	21
5.4 Driving units and drive systems	23
5.5 Electrical installation and equipment	42
5.6 Specific requirements for lifting platform enclosures	55
5.7 Fire protection	58
5.8 Enclosed liftway entrances	58
5.9 Platform	62
6 Verification of safety requirements and/or protective measures	67
6.1 Verification of design	67
6.2 Verification tests	69
6.3 Verification tests on each machine before first use	70
7 Information for use	71
7.1 Introduction	71
7.2 General	71
7.3 Signals and warning devices	71
7.4 Accompanying documents (in particular: Instruction handbook)	73
Annex A (normative) Electronic components: failure exclusion	75
Annex B (informative) Guidance in selection of lifting platforms	81
B.1 Introduction	81
B.2 Selection of lifting platforms	81
B.3 Electrical supply and lighting	82
B.4 Maintenance	82
Annex C (informative) Recommendations for the provisions and use of specially adapted control devices, switches and sensors	83
C.1 Control devices	83
C.2 Assistance	83
C.3 Specially adapted switches	83

Annex D (informative) In-use periodic examination, tests and servicing	84
D.1 Periodic examinations and tests	84
D.2 Servicing	84
Annex E (normative) Safety components - Tests procedures for verification of conformity	85
E.1 General provisions	85
E.2 Test report	86
E.3 Screw and nut (not self sustaining system) stopping safety device	87
E.4 Self sustaining system	89
Annex F (informative) Steel guide rail calculation	90
Annex G (normative) Friction/traction drive - Calculation and test for verification of traction conformity	91
G.1 General provisions	91
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	92
Bibliography	93