Annex 1: Legislation, standards etc. related to lifts, escalators and moving walks

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WARNING: The sections of this annex lists legislation and standards relevant to lifts, lifting platforms, stairlifts, escalators and moving walks. The lists were as comprehensive and up-to-date as possible at the time of publication (September 2020).

Some standards are legacy standards and others are under review or development at the time of publication and readers are advised to seek the latest or relevant version.

The entries are arranged in numerical and date order. They include entries which are now not current. These may be useful when dealing with equipment not installed to the current requirements, for example in respect of a legal matter.

For the latest information readers should consult government websites regarding current legislation and BSI on-line (http://bsonline.techindex.co.uk) regarding current standards.

The European Commission's 'Enterprise and Industry' website (http://ec.europa.eu/enterprise/sectors/mechanical/lifts/index_en.htm) has additional information.

A1.1 Legislation related to lifts, escalators and moving walks

A1.1.1 Relevant European Directives and related documents*

86/312/EWG 86/312/EEC 86/312/CEE Commission Directive of 18 June 1986 adapting to technical progress Council Directive 84/529/EEC on the approximation of the laws of the Member States relating to electrically operated lifts.

89/392/EEC Council Directive of 14 June 1989 on the approximation of the laws of Member States relating to machinery.

90/486/EWG 90/486/EEC 90/486/CEE Council Directive of 17 September 1990 amending Directive 84/529 /EEC on the approximation of the laws of the Member States relating to electrically operated lifts (90/486/EEC).

95/16/EG 95/16/EC 95/16/CE European Parliament and Council Directive 95/16/EC of 29 June 1995 on the approximation of the laws of the Member States relating to lifts.

95/16/EGVerz 2000 95/16/ECVerz 2000 95/16/CEVerz 2000 00/C292/01 List of notified bodies designated by the Member States and the EFTA countries (EEA Members) under the new approach Directives.

2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast) became applicable on 29 December 2009.

* Please refer to the note on the UK's withdrawal from the European Union at the beginning of this Guide.

2014/33/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to lifts and safety components for lifts (recast) (Text with EEA relevance) came into force 18 April 2014 and will be applicable on 20 April 2016

A1.1.2 Relevant UK legislation

The Supply of Machinery (Safety) Regulations 1992 Statutory Instruments 1992 No. 3073, as amended by the Supply of Machinery (Safety) (Amendment) Regulations Statutory Instruments 1994 No. 2063 and Supply of Machinery (Safety) (Amendment) Regulations Statutory Instruments 2005 No. 831.

The Supply of Machinery (Safety) Regulations 2008 Statutory Instruments 2008 No.1587.

The Lifts Regulations 1997 Statutory Instruments 1997 No. 831.

The Lifts Regulations 2016 (to be enacted).

The Construction (Design and Management) Regulations 2007 Statutory Instruments 2007 No. 320.

The Construction (Design and Management) Regulations 2015 Statutory Instruments 51 2015 (CDM 2015) came into force on 6 April 2015, replacing CDM 2007.

The Provision and Use of Work Equipment Regulations 1998, Statutory Instruments 1998 No. 2306.

The Lifting Operations and Lifting Equipment Regulations 1998 Statutory Instruments 1998 No. 2307.

A1.2 British national standards related to lifts, escalators and moving walks

A1.2.1 Building Industries National Council

BINC 1935:*Code of practice for the installation of lifts and escalators*

BINC 1945:*Code of practice for the installation of lifts and escalators*

A1.2.2 British Standards Institution

PAS 32-1:1999: *Specification for examination and test of new lifts before putting into service. Electric traction lifts*

PAS 32-2:1999:*Specification for examination and test of new lifts before putting into service. Hydraulic lifts*

DD 176:1988: *Data logging and remote monitoring equipment for lifts, escalators and passenger conveyors*

DD 197:1990: *Recommendations for vandal resistant lifts*

DD 222:1996: *Rack and pinion lifts*

DD 265:2008: *Protocol for communications between a lift alarm system and an alarm receiving station (rescue centre). Specification*

BS 302-4:1987: *Stranded steel wire ropes. Specification for ropes for lifts*

BS 329:1968: *Specification for steel wire ropes for electric lifts*

CP 407:1972: *Electric, hydraulic and hand-powered lifts*

BS 1570:1999: *Lifting tables. Safety requirements for lifting tables*

BS 2655: *Specification for lifts, escalators, passenger conveyors and paternosters*:

— BS 2655-1:1970: *General requirements for electric, hydraulic and hand powered lifts*

— BS 2655-2:1959: *Single-speed poly-phase induction motors for driving lifts*

— BS 2655-3:1971: *Arrangements of standard electric lifts*

— BS 2655-4:1969: *General requirements for escalators and passenger conveyors*

— BS 2655-5:1970: *General requirements for paternosters*

— BS 2655-6:1970: *Building construction requirements*

— BS 2655-7:1970: *Testing and inspection*

— BS 2655-8:1971: *Modernization or reconstruction of lifts, escalators and paternosters*

— BS 2655-9:1970: *Definitions*

— BS 2655-10:1972: *General requirements for guarding*

BS 3810-8:1975: *Glossary of terms used in materials handling*

BS 5266-1:2011: Emergency lighting. Code of practice for the emergency escape lighting of premises (incorporating corrigendum dated June 2012)

BS 5323:1980: *Code of practice for scissor lifts*

BS 5588: *Fire precautions in the design and construction of buildings*:

— BS 5588-5:1986: *Code of practice for firefighting stairways and lifts*

— BS 5588-5:1991: *Code of practice for firefighting stairs and lifts*

— BS 5588-5:2004: *Access and facilities for firefighting*

— BS 5588-8:1988: *Code of practice for means of escape for disabled people*

— BS 5588-8:1999: Amd. 2004: *Code of practice for means of escape for disabled people*

BS 5655: Lifts and service lifts:

— BS 5655-1: ES:1981: *Explanatory supplement to BS 5655 Lifts and service lifts Part 1 Safety rules for the construction and installation of electric lifts (EN 81:Part 1)*

— BS 5655-1:1979, EN 81-1:1977: *Safety rules for the construction and installation of electric lifts*

— BS 5655-1:1986, EN 81-1:1985: *Safety rules for the construction and installation of electric lifts*

— BS 5655-2:1983: *Lifts and service lifts. Specification for hydraulic lifts*

— BS 5655-2:1988, EN 81-2:1987: *Safety rules for the construction and installation of hydraulic lifts*

— BS 5655-3:1989: *Lifts and service lifts. Specification for electric service lifts*

— BS 5655-5:1989: *Specification for dimensions of standard lift arrangements*

— BS 5655-6:1985: *Lifts and service lifts. Code of practice for selection and installation*

— BS 5655-6:1990: *Lifts and service lifts. Code of practice for selection and installation*

— BS 5655-6:2002: *Lifts and service lifts. Code of practice for the selection and installation of new lifts*

— BS 5655-6:2011: *Lifts and service lifts. Code of practice for the selection, installation and location of new lifts*

— BS 5655-7:1983: *Specification for manual control devices, indicators and additional fittings*

— BS 5655-8:1983: *Specification for eyebolts for lift suspension*

— BS 5655-9:1985: *Specification for guide rails*

— BS 5655-10:1986: *Specification for the testing and inspection of electric and hydraulic lifts*

— BS 5655-10.1.1:1995: *Specification for the testing and examination of lifts and service. Electric lifts Commissioning test for new lifts*

- BS 5655-10.2.1:1995: *Specification for the testing and examination of lifts and service. Hydraulic lifts. Commissioning tests for new lifts*
- BS 5655-10.1.2 (draft): *Specification for the testing and examination of lifts and service lifts. Electric lifts Commissioning tests for modernised lifts*
- BS 5655-10.2.2 (draft): *Specification for the testing and examination of lifts and service lifts. Hydraulic lifts. Commissioning tests for modernised lifts*
- BS 5655-11:1989: *Recommendations for the installation of new, and the modernization of, electric lifts in existing buildings*
- BS 5655-11:2005: *Code of practice for the undertaking of modifications to existing electric lifts*
- BS 5655-12:1989: *Recommendations for the installations of new, and the modernization of, hydraulic lifts in existing buildings*
- BS 5655-12:2005: *Code of practice for the undertaking of modifications to existing hydraulic lifts*
- BS 5655-13:1995: *Recommendations for vandal resistant lifts*
- BS 5655-14:1995: *Specification for hand powered service lifts and platform hoists*

BS 5656:1983: *Safety rules for the construction and installation of escalators and passenger conveyors*

BS 5656: *Safety rules for the construction and installation of escalators and passenger conveyors*:

- BS 5656-1:1997: *Safety rules for the construction and installation of escalators and passenger conveyors. Specification and proformas for test and examination of new installations*
- BS 5656-1:2013: *Safety rules for the construction and installation of escalators and moving walks. Examination and test of new escalators before putting into service. Specification for means of determining compliance with BS EN 115-1:2008+A1:2010*
- BS 5656-2:2004: *Safety rules for the construction and installation of escalators and moving walks. Code of practice for the selection, installation and location of new escalators and moving walks*
- BS 5656-3:2014: *Safety rules for the construction and installation of escalators and moving walks. Examination and test of new moving walks before putting into service. Specification for means of determining compliance with BS EN 115-1:2008+A1:2010*

BS 5776:1996: *Specification for powered stairlifts*

BS 5810:1979: *Code of practice for access for the disabled to buildings*

BS 5900:1980: *Specification for powered home lifts*

BS 5900:1991: *Specification for powered domestic lifts*

BS 5900:1999: *Specification for powered domestic lifts with partially enclosed cars and no lift well enclosures*

BS 5900:2012: *Powered homelifts with partially enclosed carriers and no liftway enclosures. Specification*

BS 5965:1980: *Specification for manually driven balanced personal home lifts*

BS 6440:1983: *Code of practice for powered lifting platforms for use by disabled persons*

BS 6440:1999: *Power lifting platforms for use by disabled persons. Code of practice*

BS 6440:2011: *Powered vertical Powered vertical lifting platforms having non-enclosed or partially enclosed liftways intended for use by persons with impaired mobility. Specification*

PD 6523:1989: *Information on access to and movement within and around buildings and on certain facilities for disabled people*

PD 6500:1984: *Explanatory supplement to BS 5655 'Lifts and service lifts' Part 1 'Safety rules for the construction and installation of electric lifts'* (EN 81: Part 1)

PD 6500:1986: *Explanatory supplement to BS 5655 'Lifts and service lifts' Part 1 'Safety rules for the construction and installation of electric lifts'* (EN 81: Part 1)

BS 6977:1981: *Specification for insulated flexible cables for lifts and for other flexible connections*

BS 6977:1991: *Specification for insulated flexible cables for lifts and for other flexible connections*

BS 7255:1989: *Code of practice for safe working on lifts*

BS 7255:2001:Amd. 2002: *Code of practice for safe working on lifts*

BS 7255:2012: *Code of practice for safe working on lifts*

BS 7671:2008: *Requirements for electrical installations. IEE Wiring Regulations. Seventeenth edition*

BS 7671:Amendment 2:August 2013: *Requirements for Electrical Installations IET Wiring Regulations Seventeenth Edition*

BS 7671:2008+A3:2015: R*equirements for Electrical Installations IET Wiring Regulations Seventeenth Edition*

BS 7671:2018+A1:2020: *Requirements for Electrical Installations. IET Wiring Regulations*

BS 7801:1995: *Code of practice for safe working on escalators and passenger conveyors in use*

BS 7801:2004: *Code of practice for safe working on escalators and moving walks*

BS 7801:2011: *Escalators and moving walks. Code of practice for safe working on escalators and moving walks*

BS 8300-1:2018: *Design of an accessible and inclusive built environment. External environment. Code of practice*

BS 8300-2:2018: *Design of an accessible and inclusive built environment. Buildings. Code of practice*

BS 8486: *Examination and test of new lifts before putting into service*:

- BS 8486-1:2007: *Examination and test of new lifts before putting into service. Specification for means of determining compliance with BS EN 81. Electric lifts*
- BS 8486-1:2007+A1:2011: *Examination and test of new lifts before putting into service. Specification for means of determining compliance with BS EN 81. Electric lifts*
- BS 8486-2:2007: *Examination and test of new lifts before putting into service. Specification for means of determining compliance with BS EN 81. Hydraulic lifts*
- BS 8486-2:2007+A1:2011: *Examination and test of new lifts before putting into service. Specification for means of determining compliance with BS EN 81. Hydraulic lifts*
- BS 8486-3:2017: *Passenger and goods passenger lifts conforming to BS EN 81-20*
- BS 8486-4:2019: *Passenger and goods passenger lifts in existing buildings conforming to BS EN 81-21*
- BS 8486-5:2019: *Lift alarm systems conforming to BS EN 81-28*
- BS 8486-6:2019: *Lift features for accessibility conforming to BS EN 81-70*
- BS 8486-7:2019: *Lift features for vandal resistance conforming to BS EN 81-71*
- BS 8486-8:2018: *Lift features for fire-fighting conforming to BS EN 81-72*
- BS 8486-9:2018: *Lift features for emergency recall conforming to BS EN 81-73*

BS 8899:2016: *Improvement of fire-fighting and evacuation provisions in existing lifts – Code of practice*

BS 9102:2014: *Code of practice for safe working on lifting platforms*

BS 9991:2015-TC: *Tracked Changes. Fire safety in the design, management and use of residential buildings. Code of practice*

BS 9999:2017: *Fire safety in the design, management and use of buildings. Code of practice* (incorporating Corrigendum No. 1)

A1.3 European (CEN) standards related to lifts, escalators and moving walks

BS EN 81: *Safety rules for the construction and installation of lifts and service lifts*:

— BS EN 81-1:1998: *Safety rules for the construction and installation of lifts and service lifts. Electric lifts*

— BS EN 81-1:1998+A1+A2:Consolidated 2006: *Safety rules for the construction and installation of lifts and service lifts. Electric lifts*

— BS EN 81-1:1998+A3:2009:Consolidated BS EN 81-1:1998+A1:2005+A2:2004+A3:2009+ corrigendum September 1999: *Safety rules for the construction and installation of lifts and service lifts. Electric lifts*

— BS EN 81-2:1998: *Safety rules for the construction and installation of lifts and service lifts. Hydraulic lifts*

— BS EN 81-2+A1+A2:Consolidated 2006: *Safety rules for the construction and installation of lifts and service lifts. Hydraulic lifts*

— BS EN 81-2:1998+A3:2009:Consolidated BS EN 81-2:1998+A1:2005+A2:2004+A3:2009+ corrigendum September 1999: *Safety rules for the construction and installation of lifts and service lifts. Hydraulic lifts*

— BS EN 81-3:2000+A1:2008: *Safety rules for the construction and installation of lifts and service lifts. Electric and hydraulic service lifts*

— prEN 81-5: *Safety rules for the construction and installation of lifts and service lifts. Screw lifts*

— prEN 81-6: *Safety rules for the construction and installation of lifts and service lifts. Guided chain lifts*

— prEN 81-7:2002: *Safety rules for the construction and installation of lifts and service lifts. Rack and pinion lifts*

— prEN 81-7:2009: *Safety rules for the construction and installation of lifts and service lifts. Rack and pinion lifts* (under review)

— PD CEN/TR 81-10:2004: *Safety rules for the construction and installation of lifts. Basics. System of the EN 81 series of standards*

— PD CEN/TR 81-10:2008: *Safety rules for the construction and installation of lifts. Basics and interpretations. System of the EN 81 series of standards*

— DD CEN/TS 81-11:2009: *Safety rules for the construction and installation of lifts. Basics and interpretations. Interpretations related to EN 81 family of standards*

— DD CEN/TS 81-11:2011: *Safety rules for the construction and installation of lifts. Basics and interpretations. Interpretations related to EN 81 family of standards*

— PD CEN/TR 81-12:2014: *Safety rules for the construction and installation of lifts Basics and interpretations. Use of EN 81-20 and EN 81-50 in specific markets*

— BS EN 81-20:2014: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. Passenger and goods passenger lifts*

— BS EN 81-20:2020: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. Passenger and goods passenger lifts*

— BS EN 81-21:2009: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. New passenger and goods passenger lifts in existing building*

- BS EN 81-21:2009+A1:2012: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. New passenger and goods passenger lifts in existing building*
- BS EN 81-21:2018: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. New passenger and goods passenger lifts in existing building*
- BS EN 81-22:2014: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. Electric lifts with inclined path*
- BS EN 81-28:2003: *Safety rules for the construction and installation of lifts. Remote alarms on passenger and goods passenger lifts*
- BS EN 81-28:2018: *Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. Remote alarm on passenger and goods passenger lifts*
- DD CEN/TS 81-29:2004: *Safety rules for the construction and installation of lifts. Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. Interpretations related to EN 81-20 up to EN 81-28 (includes EN 81-1:1998 and EN 81-2:1998)*
- BS EN 81-31:2010: *Safety rules for the construction and installation of lifts. Lifts for the transport of goods only. Accessible goods only lifts*
- BS EN 81-40:2008: *Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Stairlifts and inclined lifting platforms intended for persons with impaired mobility* (formerly EN 81-32)
- prEN 81-40:2020: *Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Stairlifts and inclined lifting platforms intended for persons with impaired mobility*
- BS EN 81-41:2010: *Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Vertical lifting platforms intended for use by persons with impaired mobility* (formerly EN 81-31)
- BS EN 81-43:2009: *Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Lifts for cranes*
- BS EN 81-43:2009: *Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Lifts for cranes*
- pr EN 81-44: *Lifting appliances in wind turbines*
- BS EN 81-50:2014: *Safety rules for the construction and installation of lifts. Examinations and tests. Design rules, calculations, examinations and tests of lift components*
- BS EN 81-50:2020: *Safety rules for the construction and installation of lifts. Examinations and tests. Design rules, calculations, examinations and tests of lift components*
- BS EN 81-58:2003: *Safety rules for the construction and installation of lifts. Examination and tests. Landing doors fire resistance test* (formerly EN 81-8)
- BS EN 81-58:2018: *Safety rules for the construction and installation of lifts. Examination and tests. Landing doors fire resistance test*
- BS EN 81-70:2003: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Accessibility to lifts for persons including persons with disability*
- BS EN 81-70:2018: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lift. Accessibility to lifts for persons including persons with disability*
- BS EN 81-71:2005: *Safety rules for the construction and installation of lifts. Particular applications to passenger lifts and goods passenger lifts. Vandal resistant lifts*
- BS EN 81-71:2018: *Safety rules for the construction and installation of lifts. Particular applications to passenger lifts and goods passenger lifts. Vandal resistant lifts*
- BS EN 81-72:2003: *Rules for lifts which remain in use in case of fire (Firefighters lifts)*
- BS EN 81-72:2015: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Firefighters lifts*

- BS EN 81-72:2020. *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Firefighters lifts*
- BS EN 81-73:2005: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Behaviour of lifts in the event of fire*
- BS EN 81-73:Amd 1:2009:09/30201228 DC: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Part 73. Behaviour of lifts in the event of fire*
- prEN 81-73:2013: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Part 73: Behaviour of lifts in the event of fire*
- BS EN 81-73:2016: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Behaviour of lifts in the event of fire*
- BS EN 81-73:2020: *Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Behaviour of lifts in the event of fire*
- DD CEN/TS 81-76:2011: *Safety rules for the construction and installation of lifts. Particular applications for passengers and goods passenger lifts. Part 76: Evacuation of disabled persons using lifts*
- BS EN 81-77:2013: *Safety rules for the construction and installations of lifts. Particular applications for passenger and goods passenger lifts. Lifts subject to seismic conditions*
- BS EN 81-77:2018: *Safety rules for the construction and installations of lifts. Particular applications for passenger and goods passenger lifts. Lifts subject to seismic conditions*
- BS EN 81-80:2003: *Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of safety of existing passenger and goods passenger lifts*
- BS EN 81-80:2019: *Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of safety of existing passenger and goods passenger lifts*
- DD CEN/TS 81-82:2008: *Safety rules for the construction and installation of lifts. Existing lifts. Improvement of the accessibility of existing lifts for persons including persons with disability*
- BS EN 81-82:2013: *Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of the accessibility of existing lifts for persons including persons with disability*
- DD CEN/TS 81-83:2009: *Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of the resistance against vandalism*

BS EN 115:1995: *Safety rules for the construction and installation of escalators and passenger conveyors*

BS EN 115+prA1:1998: *Safety rules for the construction and installation of escalators and passenger conveyors; Amendment A1*

BS EN 115+A1+A2:2006:Consolidated 2006: *Safety rules for the construction and installation of escalators and passenger conveyors; Amendment A1*

BS EN 115-1:2008: *Safety of escalators and moving walks. Construction and installation*

BS EN 115-1:2008+A1:2010: *Safety of escalators and moving walks. Construction and installation*

prEN 115-1:2014: *Safety of escalators and moving walks. Construction and installation*

BS EN 115-1:2017: *Safety of escalators and moving walks. Construction and installation*

BS EN 115-2:2010: *Safety of escalators and moving walks. Rules for the improvement of safety of existing escalators and moving walks*

PD CEN/TR 115-3:2009: *Safety of escalators and moving walks. Correlation between EN 115:1995 and its amendments and EN 115-1:2008*

PD CEN/TR 115-3:2017: *Safety of escalators and moving walks. Correlation between EN 115-1:2008+A1:2010 and EN 115-1:2017*

PD CEN/TS 115-4:2014: *Safety of escalators and moving walks. Interpretations related to EN 115 family of standards*

PD CEN/TS 115-4:2015: *Safety of escalators and moving walks. Interpretations related to EN 115 family of standards*

BS EN 292-1:1991: *Safety of machinery. Basic concepts, general principles for design. Basic terminology, methodology*

BS EN 292-2:1991: *Safety of machinery. Basic concepts, general principles for design. Technical principles and specifications*

BS EN 627:1996: *Specification for data logging and monitoring of lifts, escalators and passengers conveyors*

BS EN 1050:1997: *Safety of machinery. Principles for risk assessment*

BS EN 1570-1:2011+A1:2014: *Safety requirements for lifting tables. Lifting tables serving up to two fixed landings*

BS EN 1570-2:2016: *Safety requirements for lifting tables. Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s*

BS EN ISO 10535:1998: *Hoists for the transfer of disabled persons. Requirements and test methods*

BS EN 12015:1998: *Electromagnetic compatibility Product family standard for lifts, escalators and passenger conveyors. Emission*

BS EN 12015:2004: *Electromagnetic compatibility Product family standard for lifts, escalators and passenger conveyors. Emission*

BS EN 12015:2014: *Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Emission*

BS EN 12016:1998: *Electromagnetic compatibility. Product family standard for lifts, escalators and passenger conveyors. Immunity*

BS EN 12016:2004: *Electromagnetic compatibility. Product family standard for lifts, escalators and passenger conveyors. Immunity*

BS EN 12016:2004+A1:2008: *Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Immunity*

BS EN 12016:2013: *Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Immunity*

BS EN ISO 12100-1:2003: *Safety of machinery. Basic concepts, general principles for design*

BS EN 12158:2000: *Builders hoists for goods*:

— BS EN 12158-1:2000: *Builders hoists for goods. Hoists with accessible platforms*

— BS EN 12158-2:2000: *Builders hoists for goods. Inclined hoists with non-accessible load carrying devices*

BS EN 12183:1999: *Manually propelled wheelchairs Requirements and test methods*

BS EN 12184:1999: *Electrically powered wheelchairs, scooters and their chargers. Requirements and test methods*

EN 12385-5:2002: *Steel wire ropes. Safety. Stranded ropes for lifts*

BS EN 13015:2001: *Maintenance for lifts and escalators. Rules for maintenance instructions*

BS EN 13015:2001+A1:2008: *Maintenance for lifts and escalators. Rules for maintenance instructions*

BS EN 50214:1998: *Flexible cables for lifts*

BS EN ISO 14798:2013: *Lifts (elevators), escalators and moving walks. Risk assessment and reduction methodology*

BS EN 61508: *Functional safety of electrical/electronic/programmable electronic safety-related systems*:

— BS EN 61508-1:2002 (IEC 61508-1:1998+Corrigendum 1999): *Functional safety of electrical/electronic/programmable electronic safety-related systems. General requirements*

— BS EN 61508-1:2010 (IEC 61508-1:2010): *Functional safety of electrical/electronic/programmable electronic safety-related systems. General requirements*

— BS EN 61508-2:2002 (IEC 61508-2:2000): *Functional safety of electrical/electronic/programmable electronic safety-related systems. Requirements for electrical/electronic/programmable electronic safety-related systems*

— BS EN 61508-2:2010 (IEC 61508-2:2010): *Functional safety of electrical/electronic/programmable electronic safety-related systems. Requirements for electrical/electronic/programmable electronic safety-related systems*

— BS EN 61508-3:2002 (IEC 61508-3:1998+Corrigendum 1999): *Functional safety of electrical/electronic/programmable electronic safety-related systems. Software requirements*

— BS EN 61508-3:2010 (IEC 61508-2:2010): *Functional safety of electrical/electronic/programmable electronic safety-related systems. Software requirements*

— BS EN 61508-4:2002 (IEC 61508-4:1998+Corrigendum 1999): *Functional safety of electrical/electronic/programmable electronic safety-related systems. Definitions and abbreviations*

— BS EN 61508-4:2010 (IEC 61508-4:2010): *Functional safety of electrical/electronic/programmable electronic safety related systems. Definitions and abbreviations*

— BS EN 61508-5:2002 (IEC 61508-5:1998+Corrigendum 1999): *Functional safety of electrical/electronic/ programmable electronic safety-related systems. Examples of methods for the determination of safety integrity levels*

— BS EN 61508-5:2010 (IEC 61508-5:2010): *Functional safety of electrical/electronic/programmable electronic safety related systems. Examples of methods for the determination of safety integrity levels*

— BS EN 61508-7:2002 (IEC 61508-7:2000): *Functional safety of electrical/electronic/programmable electronic safety-related systems. Overview of techniques and measures*

— BS EN 61508-7:2010 (IEC 61508-7:2010): *Functional safety of electrical/electronic/programmable electronic safety related systems. Overview of techniques and measures*

BS EN 62305: *Protection against lightning*:

— BS EN 62305-3:2006: *Protection against lightning. Physical damage to structures*

— BS EN 62305-4:2006: *Protection against lightning. Electrical and electronic systems within structures*

A1.4 International standards related to lifts, escalators and moving walks

BS ISO 4190-1:1999: *Lift (US: Elevator) installation. Class I, II, III and VI lifts*

BS ISO 4190-1:2010: *Lift (Elevator) installation. Class I, II, III and VI lifts*

BS ISO 4190-2:2001: *Lift (US: Elevator) installation. Class IV lifts*

ISO 4190-3:1982: *Passenger lift installations. Service lifts class V*

ISO 4190-5:1987: *Lifts and service lifts (USA: Elevators and dumbwaiters). Control devices, signals and additional fittings*

BS ISO 4190-5:2006: *Lift (elevator) installation. Control devices, signals and additional fittings*

ISO 4190-6:1984: *Lifts and service lifts (USA : elevators and dumbwaiters). Passenger lifts to be installed in residential buildings. Planning and selection* (under review)

ISO 4344:2004: *Steel wire ropes for lifts. Minimum requirements*

ISO 7193:1985: *Wheelchairs. Maximum overall dimensions*

ISO 7465:2001: *Passenger lifts and service lifts. Guide rails for lift cars and counterweights. T-type*

ISO 7465:2007: *Passenger lifts and service lifts. Guide rails for lift cars and counterweights. T-type*

ISO/DIS 7465:2005: *Passenger lifts and service lifts. Guide rails for lift cars and counterweights. T-type*

BS ISO 8100-1:2019: *Lifts for the transport of persons and goods. Safety rules for the construction and installation of passenger and goods passenger lifts*

BS ISO 8100-2:2019: *Lifts for the transport of persons and goods. Design rules, calculations, examinations and tests of lift components*

PD ISO/TS 8100-3:2019: *Lifts for the transport of persons and goods. Requirements from other Standards (ASME A17.1/CSA B44 and JIS A 4307-1/JIS A 4307-2) not included in ISO 8100-1 or ISO 8100-2*

ISO/PWI 8100-7:2020: *Lifts for the transport of persons and goods — Part 7: Control devices, signals and additional fittings* [Under development]

ISO/TR 8100-10:2017: *Lifts for the transport of persons and goods — Part 10: System of the ISO 8100 to ISO 8105 series of standards*

BS ISO 8100-20:2018: *Lifts for the transport of persons and goods. Global essential safety requirements (GESRs)*

PD ISO/TS 8100-21:2018: *Lifts for the transport of persons and goods. Global safety parameters (GSPs) meeting the global essential safety requirements (GESRs)*

PD ISO/TR 8100-24:2016: *Safety requirements for lifts (elevators). Convergence of lift requirements*

BS ISO 8100-30:2019: *Lifts for the transport of persons and goods. Class I, II, III and VI lifts installation*

ISO/DIS 8100-32:2020: *Lifts for the transportation of persons and goods — Part 32: Planning and selection of passenger lifts to be installed in office, hotel and residential buildings*

ISO 8100-33:2017: *Passenger lifts and service lifts — Guide rails for lift cars and counterweights — T-type*

ISO/AWI TR 8101-10:2020: *Fire safety on lifts — Part 10: Comparison of worldwide safety standards on lifts for firefighters* [Under development]

ISO/PWI TR 8101-12:2020: *Fire safety on lifts — Part 12: Study of the methods used for fire testing lift landing doors* [Under development]

BS ISO 8102-1:2020: *Electrical requirements for lifts, escalators and moving walks. Electromagnetic compatibility with regard to emission*

ISO/DIS 8102-2:2018: *Electrical requirements for lifts, escalators and moving walks — Part 2: Electromagnetic compatibility with regard to immunity*

BS ISO 8102-6:2019: *Electrical requirements for lifts, escalators and moving walks. Programmable electronic systems in safety-related applications for escalators and moving walks (PESSRAE)*

PD ISO/TS 8103-6:2017: *Escalators and moving walks. Safety parameters meeting the GESRs*

ISO 8383:1985: *Lifts on ships. Specific requirements*

ISO 9386: *Power-operated lifting platforms for persons with impaired mobility*:

— ISO 9386-1:2000: *Power-operated lifting platforms for persons with impaired mobility. Rules for safety, dimensions and functional operation. Vertical lifting platforms*

— ISO 9386-2:2000: *Power-operated lifting platforms for persons with impaired mobility. Rules for safety, dimensions and functional operation. Powered stairlifts for seated, standing and wheelchair users moving in an inclined plane*

ISO 9589:1994: *Escalators. Building dimensions*

BS EN ISO 10535:1998: *Hoists for the transfer of disabled persons. Requirements and test methods*

ISO/TR 11071-1:1990: *Comparison of worldwide lift safety standards. Electric lifts (elevators)*

ISO/TR 11071-1:1990:Amd 1:1999: *References to Japanese standards*

ISO/TR 11071-1:1990:Amd 2:2001: *References to Australian standards*

ISO/TR 11071-2:1996: *Comparison of worldwide lift safety standards. Hydraulic lifts (elevators)*

ISO/TR 11071-2:1996:Amd 1:1999: *References to Japanese and Australian standards*

PD ISO/TR 11071-1:2004: *Comparison of worldwide lift safety standards — Part 1: Electric lifts (elevators)*

ISO/TR 11071-2:1996: *Comparison of worldwide lift safety standards. Hydraulic lifts (elevators)*

ISO/TR 11071-2:1996:Amd 1:1999: *References to Japanese and Australian standards*

BS EN 12182:1999: *Technical aids for disabled persons General requirements and test methods*

ISO/TS 14798:2000: *Lifts (elevators), escalators and passenger conveyors. Risk analysis methodology*

DD ISO/TS 14798:2006: *Lifts (elevators), escalators and moving walks. Risk assessment and reduction methodology*

PD ISO/TR 14799-1:2015: *Comparison of worldwide escalator and moving walk safety standards. Rule by rule comparison*

BS ISO 14798:2009: *Lifts (elevators), escalators and moving walks. Risk assessment and reduction methodology*

PD ISO/TR 14799-1:2015: *Comparison of worldwide escalator and moving walk safety standards. Part 1: Rule by rule comparison*

PD ISO/TR 14799-2:2015: *Comparison of worldwide escalator and moving walk safety standards. Part 2: Abbreviated comparison and comments*

ISO/TR 16764:2003: *Lifts, escalators and passenger conveyors. Comparison of worldwide standards on electromagnetic interference/electromagnetic compatibility*

ISO/TR 16765:2003: *Comparison of worldwide safety standards on lifts for firefighters*

BS ISO 18738:2003: *Lifts (elevators). Measurement of lift ride quality*

prBS ISO 18738-1:2010: *Measurement of lift ride quality. Lifts (elevators)*

BS ISO 18738-2:2012: *Measurement of ride quality. Escalators and moving walks*

PD ISO/TS 18870:2014: *Lifts (elevators). Requirements for lifts used to assist in building evacuation*

BS ISO 22199:2009: *Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Emission*

BS ISO 22200:2009: *Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Immunity*

BS ISO 22201:2009: *Lifts (elevators). Design and development of programmable electronic systems in safety-related applications for lifts (PESSRAL)*

BS ISO 22201-1:2017: *Lifts (elevators), escalators and moving walks. Programmable electronic systems in safety-related applications. Lifts (elevators) (PESSRAL)*

BS ISO 22201-2:2013: *Lifts (elevators), escalators and moving walks. Programmable electronic systems in safety related applications. Escalators and moving walks (PESSRAE)*

PD ISO/TR 22201-3:2013: *Lifts (elevators), escalators and moving walks. Programmable electronic systems in safety related applications. Life cycle guideline for programmable electronic systems related to PESSRAL and PESSRAE*

PD ISO/TR 22201-3:2016: *Lifts (elevators), escalators and moving walks. Programmable electronic systems in safety related applications. Life cycle guideline for programmable electronic systems related to PESSRAL and PESSRAE*

DD ISO/TS 22559-1:2004: *Safety requirements for lifts (elevators). Global safety requirements (GESRs) for lifts (elevators)*

BS ISO 22559-1:2014: *Safety requirements for lifts (elevators). Global essential safety requirements (GESRs)*

DD ISO/TS 22559-2:2010: *Safety requirements for lifts (elevators). Safety parameters meeting the global essential safety requirements (GESRs)*

DD ISO/TS 22559-3:2011: *Safety requirements for lifts (elevators). Global conformity assessment procedures (GCAP). Prerequisites for certification of conformity of lift systems, lift components and lift functions*

DD ISO/TS 22559-4:2011: *Safety requirements for lifts (elevators). Global conformity assessment procedures (GCAP). Certification and accreditation requirements*

ISO/DTS 25740-1:2007: *Safety requirements for escalators and moving walks. Global essential safety requirements (GESRs)*

DD ISO/TS 25740-1:2011: *Safety requirements for escalators and moving walks. Global essential safety requirements (GESR)*

ISO/TR 25741:2008: *Lifts and escalators subject to seismic conditions. Compilation report*

ISO/DTR 25743:2009: *Lifts (elevators). Study into the use of lifts for evacuation during an emergency*

PD ISO/TR 25743:2010: *Lifts (elevators). Study of the use of lifts for evacuation during an emergency*

ISO/CD 25744:2007: *Escalators and moving walks. Measurement of ride quality*

BS EN ISO 25745-1:2012: *Energy performance of lifts, escalators and moving walks. Energy measurement and verification*

BS EN ISO 25745-2:2015+Corrigendum 2016: *Energy performance of lifts, escalators and moving walks. Energy calculation and classification for lifts (elevators)*

BS EN ISO 25745-3:2015: *Energy performance of lifts, escalators and moving walks. Energy calculation and classification of escalators and moving walks*

A1.5 Standards relating to access and movement of people with disabilities in buildings

BS EN 81-40:2008: *Stairlifts and inclined lifting platforms intended for persons with impaired mobility*

prEN 81-41:2008 (ISO/FDIS 9386-1): *Vertical lifting platforms*

BS EN 81-41:2010: *Safety rules for the construction and installation of lifts. Special lifts for the transport of persons and goods. Vertical lifting platforms intended for use by persons with impaired mobility* (formerly EN 81-31)

BS EN 81-70:2003: *Rules for accessibility of disabled people to lifts*

prCEN/TR 81-76:2006: *Evacuation of disabled persons using lifts*

DD CEN/TS 81-82:2008: *Safety rules for the construction and installation of lifts. Existing lifts. Improvement of the accessibility of existing lifts for persons including persons with disability*

BS EN 81-82:2013: *Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of the accessibility of existing lifts for persons including persons with disability*

BS 5588-8:1999: *Fire precautions in the design, construction and use of buildings. Code of practice for means of escape for disabled people*

BS 5588-8:1999:Amd 2004: *Code of practice for means of escape for disabled people*

BS 5776:1996: *Specification for powered stairlifts*

BS 5900:1999: *Specification for powered domestic lifts with partially enclosed cars and no lift well enclosures*

BS 5900:2012: *Powered homelifts with partially enclosed carriers and no liftway enclosures. Specification*

BS 5965:1980: *Specification for manually driven balanced personal home lifts*

BS 6440:1999: *Power lifting platforms for use by disabled persons. Code of practice*

BS 6440:2011: *Powered vertical Powered vertical lifting platforms having non-enclosed or partially enclosed liftways intended for use by persons with impaired mobility. Specification*

PD 6523:1989: *Information on access to and movement within and around buildings and on certain facilities for disabled people*

BS 8300:2001: *Design of buildings and their approaches to meet the needs of disabled people. Code of practice*

BS 8300:2009+A1:2010: *Design of buildings and their approaches to meet the needs of disabled people. Code of practice*

BS 8300-1:2018: *Design of an accessible and inclusive built environment. External environment. Code of practice*

BS 8300-2:2018: *Design of an accessible and inclusive built environment. Buildings. Code of practice*

9266:2013: *Design of accessible and adaptable general needs housing. Code of practice*

BS 9991:2011: *Fire safety in the design, management and use of residential buildings. Code of practice*

BS 9991:2015: *Fire safety in the design, management and use of residential buildings. Code of practice*

BS 9999:2008: *Code of practice for fire safety in the design, management and use of buildings*

BS 9999:2017+Corrigendum 2017): *Fire safety in the design, management and use of buildings – Code of practice*

BS EN ISO 10535:1998: *Hoists for the transfer of disabled persons. Requirements and test methods*

BS EN 12182:1999: *Technical aids for disabled persons. General requirements and test methods*

EP 230:2001: *BSI Electronic Book. Disability Access (BS 8300:2001)* (CD-ROM)

ISO/DTR 25743:2010: *Lifts (elevators). Study into the use of lifts for evacuation during an emergency*

A1.6 Interpretations to EN 81 family of standards

A1.6.1 BSI publications

Safety standards are very necessary, but the documents that describe them often require detailed study to obtain a full understanding. Sometimes the meaning is still unclear and hence the use of requests for interpretations. It is very important that designers, manufacturers, installers, maintainers, owners, inspectors and consultants keep up-to-date with such interpretations.

BSI publishes BS EN 81-11: *Safety rules for the construction and installation of lifts. Basics and interpretations. Interpretations related to the EN 81 family of standards* as DD CEN/TS 81-11:2011.

Part 11 contains a listing and description of interpretations to the 1998 versions of EN 81-1/2 (series number greater than 500) and a cross-reference to those interpretations still relevant made to the earlier EN 81-1/2 standards (series up to 272). These latter interpretations were published by BSI in BS HB 10105:2000 as the *Lifts Handbook, An explanatory supplement to BS 5655: Parts 1 and 2*. This has been withdrawn from the BSI catalogue. These interpretations may apply to BS EN 81-20 and BS EN 81-50.

Table A1.1 gives the interpretation number on a clause-by-clause basis with a tick (✓) in the column of the standards relevant to the clause. Only a brief description is given, so it will necessary to examine the actual text to understand the full meaning.

A1.6.2 CEN publications

New interpretations are issued by CEN on an ad hoc timescale. This does means a practitioner's knowledge can become out-of-date. Table A1.2 provides further interpretations to BS EN 81-1/2 not listed in DD CEN/TS 81-29:2004.

Tables A1.3 to A3.10 list interpretations to BS EN 81-20, -21, -28, -50, -58, -70, -72 and -73. These can be found on the CEN/TC 10 interpretations website:

http://portailgroupe.afnor.fr/public_espacenormalisation/CENTC10

Warning: interpretations do not have the same status as the standards to which they are related. However, the application of interpretations should give to the interested parties confidence that the relevant standard has not been wrongly applied.

The website states:

> Standards reflect the consensus of the best European expertise and are prepared with highest care. Product standards cannot be formulated in such a way that they describe all possible technical solutions and therefore exclude all uncertainties regarding the understanding of the required provisions. On the other hand technology is in a permanent evolution, the progress of which cannot be incorporated into standards quickly enough. Interpretations are a practical way to give answers to questions regarding the understanding of clauses in standards;
>
> - feedback to the CEN-Committee responsible for a standard about the practical experiences resulting from the use of the standard;
> - guidance to further development and improvement of standards following:
>   - experience, especially accidents and incidents;
>   - progress in technology;
>   - state of the art. Information concerning the procedure developed by CEN/TC 10 concerning the elaboration of interpretations is shown in CEN Technical Report CEN/TR 81-10.
>
> Interpretations aim to improve the understanding of the clause(s) they are referring to and by that facilitating common understanding between manufacturers, lift installers, notified bodies, inspection bodies and national authorities.
>
> It should be noted that none of the interpretations presented on this site constitutes a legally binding interpretation of the Lifts Directive (Legally, only the text of the Directive is authentic), but it is reference document:
>
> - drafted following the procedure described in CEN/TR 81-10 of CEN/TC 10,
> - validated by all European stakeholders, and aiming to allow uniform application by all parties.

A1.6.3 Tables

The tables that follow record the interpretations requests that have been answered and documented at the time of publication.

Table A1.1 Interpretations to EN 81-1 and EN 81-2

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
0.1.2.1	249	Diverter pulleys made of plastic		✓	✓	✓	✓
1.2	532	Maximum allowable pressure					✓
1.3	532	Maximum allowable pressure					✓
1.3(g)	524	Speeds less than 1 m/s					✓
3	140	Clear height of car	✓	✓	✓	✓	✓
3	166	Definition of permanent lifting equipment	✓	✓	✓	✓	✓
3	553	Electric safety chain			✓		✓
5.2.2.1.1	58	Signs on inspection traps	✓	✓	✓	✓	✓
5.2.2.1.2	216	Requirement of emergency doors		✓	✓	✓	✓
5.3.1.2	518	Use of glass in partially enclosed wells				✓	✓
5.3.1.2	567	Glass walls, floor and ceiling of well				✓	✓
5.3.2.2	517	Strength of floor under buffers				✓	✓
5.3.2.3	517	Strength of floor under buffers				✓	✓
5.4.3.2.1(a)	156	Distances to walls (entrance sides)	✓	✓	✓	✓	✓
5.4.3.2.2	25	Prevention of misuse of car door locking mechanism	✓	✓	✓	✓	✓
5.6.1	501	Protection in well				✓	✓
5.6.1	568	Counterweight screen			✓		✓
5.6.2	568	Counterweight screen			✓		✓
5.7	565	Clearances in the headroom and the pit				✓	✓
5.7.1.1	251	Distance between the guides of yoke and car at the same guide rail				✓	✓
5.7.1.1(c)	212	Free vertical distance above diverter pulleys on the car		✓	✓	✓	✓
5.7.1.1(d)	122	Standing area, location on car roof		✓	✓	✓	✓
5.7.2.1	229	Distance between counterweight and bottom of the pit				✓	✓
5.7.2.2	539	Accessibility of pit				✓	✓
5.7.2.3(b)(2)	157	Clearances in pit				✓	✓
5.7.2.3	229	Distance between counterweight and bottom of the pit				✓	✓
5.7.2.5(a)	121	Types of stop switch				✓	✓
5.7.3.2	539	Accessibility of pit				✓	✓
5.7.3.3(b)(2)	157	Clearances in pit	✓	✓	✓		
5.7.3.4	121	Types of stop switch	✓	✓	✓		
5.8	22	Use of sprinkler systems	✓	✓	✓	✓	✓
5.8	231	Main earth cables inside the well	✓	✓	✓	✓	✓
5.9	516	50 lux well lighting			✓		✓
5.9	551	Well lighting				✓	✓
5.10	534	Alarm devices in pit				✓	✓
6.1.2	566	Diverter pulleys in the headroom				✓	✓
6.1.2	272	Diverter pulleys in the well, location at the pedestal of the jack				✓	✓
6.1.2.1.1	73	Pulleys at top of well		✓	✓	✓	✓
6.1.2.1.1	239	Protection of diverter pulleys in the pit		✓	✓		
6.1.2.1.1	248	Maintenance on rope terminations		✓	✓	✓	✓
6.1.2.1.2(b)	113	Dimensioning of openings between machine room and well	✓	✓	✓		
6.1.2.1.4(c)	271	Protection at pulleys, introduction of objects, dimension of objects		✓	✓		
6.1.2.3	234	Maintenance of air conditioners inside machine room		✓	✓	✓	✓

Table continues

Table A1.1 Interpretations to EN 81-1 and EN 81-2 (*continued*)

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
6.2.2(b)	536	Access to the interior of machine room				✓	✓
6.3	569	Machine rooms and overhead pulleys				✓	✓
6.3.2.1	3	Machine room, maintenance areas	✓	✓	✓	✓	✓
6.3.3.2	105	Protective measures on trapdoors	✓	✓	✓	✓	✓
6.3.5.2	234	Maintenance of air conditioners inside the machine room		✓	✓	✓	✓
6.3.6	550	Machine room lighting				✓	✓
6.3.7	220	Installation for heavy equipment hoisting		✓	✓	✓	✓
6.4	569	Machine rooms and overhead pulleys				✓	
6.4.3.1	105	Protective measures on trapdoors	✓	✓	✓	✓	✓
6.7.3.3(b)(2)	547	Pit depth			✓		
6.7.2.3(b)(2)	547	Pit depth					✓
7	269	Additional means for security locking at landing doors		✓	✓	✓	✓
7.1.1	50	Handles on sliding doors	✓	✓	✓	✓	✓
7.1.1	170	Design of edges of doors	✓	✓	✓	✓	✓
7.1.1	192A	Design of closing edges of doors	✓	✓	✓	✓	✓
7.4.3.1	132	Suspension for vertically sliding doors	✓	✓	✓	✓	✓
7.5.1	192A	Design of closing edges of doors	✓	✓	✓	✓	✓
7.5.2	171	Design of large landing and car doors		✓	✓	✓	✓
7.5.2.1.1.1	49A	Closing force limiter	✓	✓	✓	✓	✓
7.5.2.1.1.1	187	Solutions of closing-force limitations	✓	✓	✓	✓	✓
7.5.2.1.1.1	197	Measurement of the closing force		✓	✓	✓	✓
7.5.2.1.1.3	49A	Closing force limiter	✓	✓	✓	✓	✓
7.5.2.1.1.3	106	Protective devices on doors	✓	✓	✓	✓	✓
7.5.2.1.1.3	128	Protective device arrangement on centre opening doors	✓	✓	✓	✓	✓
7.5.2.1.1.3	158	Actuating force for door protective devices	✓	✓	✓	✓	✓
7.5.2.1.1.3	187	Solutions of closing-force limitations	✓	✓	✓	✓	✓
7.5.2.1.2	171	Design of large car doors and landing doors		✓	✓	✓	✓
7.5.2.2	23	Requirements for vertically-sliding doors	✓	✓	✓	✓	✓
7.5.2.2	172	Design of vertically sliding car and landing doors		✓	✓	✓	✓
7.7.2.1	196	Energising the brake		✓	✓	✓	✓
7.7.2.1	207	Preliminary operations				✓	✓
7.7.2.2	196	Energising the brake		✓	✓	✓	✓
7.7.3	222	Type examination of door locking devices		✓	✓	✓	✓
7.7.3	227	Power operated opening of car door		✓	✓	✓	✓
7.7.3.2	50	Handles on sliding doors	✓	✓	✓	✓	✓
7.7.3.2	171	Design of large landing and car doors		✓	✓	✓	✓
7.7.4.1	222	Type examination of door locking devices		✓	✓	✓	✓
7.7.5.1	222	Type examination of door locking devices		✓	✓	✓	✓
7.7.6	99	Linkage of door panels (strength)	✓	✓	✓	✓	✓
7.7.6.1	100	Linkage of door panels (fire resistance)	✓	✓	✓	✓	✓
8.1.1	140	Clear height of car	✓	✓	✓	✓	✓
8.2.1	544	Available car area				✓	✓
8.2.1	131	Recesses in lift car	✓	✓	✓	✓	✓
8.2.1	191	Available car area	✓	✓	✓	✓	✓
8.2.2	63	Loading devices and rated load	✓	✓	✓		
8.2.2	191	Available car area				✓	✓
8.2.2	206	Use of handling devices, calculation		✓	✓		
8.2.2.3	226	Calculation of the jack				✓	✓

Table continues

Table A1.1 Interpretations to EN 81-1 and EN 81-2 (*continued*)

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
8.2.2.4	523	Good lift rated load					✓
8.2.3	63	Loading devices and rated load				✓	✓
8.2.3	206	Use of handling devices, calculation				✓	✓
8.3	202	Cars made of wood		✓	✓	✓	✓
8.3	211	Advertising message in the car		✓	✓	✓	✓
8.3	261	Mirrors at the walls of the car		✓	✓	✓	✓
8.3.2.1	24	Defined area for door strength calculations	✓	✓	✓	✓	✓
8.4.1	193	Reduction of the distance between car sill and landing door sill	✓	✓	✓	✓	✓
8.6.1	32	Mesh width of mesh panel doors	✓	✓	✓	✓	✓
8.6.1	172	Design of vertically sliding car- and landing doors		✓	✓	✓	✓
8.6.6	132	Suspension for vertically sliding doors	✓	✓	✓	✓	✓
8.7.2.1.1.1	187	Solutions of closing-force limitations	✓	✓	✓	✓	✓
8.7.2.1.1.1	197	Measurement of the closing force		✓	✓	✓	✓
8.7.2.1.1.3	158	Actuating force for door protective devices	✓	✓	✓	✓	✓
8.7.2.1.1.3	180	Protective device on car folding doors	✓	✓	✓	✓	✓
8.7.2.1.1.3	187	Solutions of closing-force limitations	✓	✓	✓	✓	✓
8.12.4	31	Emergency car doors	✓	✓	✓	✓	✓
8.13	571	Balustrade height, etc.			✓		✓
8.13.3	572	Balustrade height, etc.					✓
8.17.1	260	Switching off the car lighting		✓	✓	✓	✓
8.17.3	130	Emergency lighting in lift car		✓	✓	✓	✓
8.17.4	549	Car lighting				✓	✓
8.18.2(a)	141	Rope restraint on counterweight pulleys	✓	✓	✓		
8.18.3	164	Emergency machine for traction drive lifts	✓	✓	✓		
9.1.2	561	Suspension ropes			✓		✓
9.3	33	Traction sheave with groove inserts	✓	✓	✓		
9.3.1	165	Traction examination	✓	✓	✓		
9.3.1(a)	270	Traction, lifting of the empty car, duration of the test		✓	✓		
9.3.3	70	Safety switch for suspension ropes				✓	✓
9.4.1	56	Guards for chain pulleys				✓	✓
9.4.4	264	Fleet angle of suspension ropes		✓	✓		
9.5.3	70	Safety switch for suspension ropes	✓	✓	✓		
9.6	561	Suspension ropes			✓		
9.6.2	537	Anti rebound device operation				✓	
9.7	56	Guards for chain pulleys	✓	✓	✓		
9.8.2.1(d)	525	Instantaneous safety gear 0.63–1.00 m/s					✓
9.8.3.1	520	Safety gear operation activation				✓	✓
9.8.3.1	235	Tripping of the safety gear of the car		✓	✓		
9.8.5.1	230	Release of a tripped safety gear				✓	✓
9.8.5.3	230	Release of a tripped safety gear		✓	✓		
9.8.7	48	Car floor inclination	✓	✓	✓	✓	✓
9.8.8	230	Release of a tripped safety gear		✓	✓	✓	✓
9.8.8	237	Slack rope/chain and safety gear contract				✓	✓
9.8.8	252	Electric safety device at the safety gear				✓	✓
9.9	148	Overspeed governor in pit	✓	✓	✓		
9.9.1	149	Indication of rated speeds for overspeed	✓	✓	✓		
9.9.1	160	Governor tripping speed check	✓	✓	✓		

Table continues

Table A1.1 Interpretations to EN 81-1 and EN 81-2 (*continued*)

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
9.9.2	559	Limit switches heavy rated loads, low speeds				✓	
9.9.2.1	526	Text revised for clamping device					✓
9.9.5.1	527	Release of clamping device					✓
9.9.5.2	527	Release of clamping device					✓
9.9.6	561	Suspension ropes			✓		
9.9.6.1	71	Overspeed governor drive	✓	✓	✓		
9.9.6.5	159	Tensioning of governor rope	✓	✓	✓		
9.9.7	228	Response time		✓	✓		
9.9.9	72	Manual checking of safety gear	✓	✓	✓		
9.9.11	177	Electric safety device at the overspeed governor	✓	✓	✓		
9.9.11.1	266	Operation of the electric safety device at the overspeed governor		✓	✓		
9.9.11.2	241	Electric safety device on overspeed governor		✓	✓		
9.10.1	555	Safety gear			✓		
9.10.2	160	Governor tripping speed check				✓	✓
9.10.2.1	149	Indication of rated speeds for overspeed governor				✓	✓
9.10.2.2	559	Limit switches heavy rated loads, low speeds					✓
9.10.2.5.1	71	Overspeed governor drive				✓	✓
9.10.2.5.2	148	Overspeed governor in pit				✓	✓
9.10.2.5.2	159	Tensioning of governor rope				✓	✓
9.10.2.6	228	Response time				✓	✓
9.10.2.8	72	Manual checking of safety gear				✓	✓
9.10.2.10.2	177	Electric safety device at the overspeed governor				✓	✓
9.10.2.10.2	241	Electric safety device on overspeed governor				✓	✓
9.10.3	535	Ascending car retardation				✓	
9.10.3.2	256	Tripping the safety gear by suspension failure				✓	✓
9.10.4	555	Safety gear			✓		
9.10.5	555	Safety gear			✓		
9.10.6	561	Suspension ropes					✓
9.11.7	210	Buffering system in pawl devices				✓	✓
10.1.2	94	Fixing of guide rails	✓	✓	✓	✓	✓
10.1.2.1	542	Guide rails, yield point, tensile strength				✓	✓
10.3	127	Impact speed on buffers	✓	✓	✓	✓	✓
10.3.1	103	Buffer arrangements	✓	✓	✓	✓	✓
10.3.1	111	Possible design of instantaneous safety gear with buffered effect	✓	✓	✓		
10.3.1	521	Moving buffers				✓	✓
10.3.2	111	Possible design of instantaneous safety gear with buffered effect				✓	✓
10.3.3	557	Car buffer requirements					✓
10.3.3	194	Buffers underneath the car				✓	✓
10.3.4	236	Touch between the ram and the bottom of the cylinder				✓	✓
10.4.1.2.2	564	Energy accumulation buffers				✓	✓
10.4.2.1	560	Electromechanical brake				✓	
10.4.3.2	533	Striking speed on buffers				✓	
10.5.2.3(a)	134	Final limit switch	✓	✓	✓	✓	✓
10.5.2.3(a)	224	Tripping of the final limit switch				✓	✓
10.5.3	201	Effects after operation of the final limit switch				✓	✓
10.5.3.1	545	Limit switches				✓	

Table continues

Table A1.1 Interpretations to EN 81-1 and EN 81-2 (*continued*)

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
10.5.3.1	512	Final limit switch usage					✓
10.5.3.1	513	Final limit switch usage					✓
10.5.3.1(a)	219	Final limit switches for drum drive lifts		✓	✓		
10.5.3.2	512	Final limit switch usage					✓
10.5.3.2	513	Final limit switch usage					✓
10.5.3.2	238	Return to normal service from operation of the final limit switch				✓	✓
10.5.3.2	245	Realisation of non response to calls				✓	✓
10.6	182	Combination of slack-rope switch and safety gear switch				✓	✓
10.6	237	Slack rope/chain and safety gear contact				✓	✓
11	250	Distances between car and installation inside the well		✓	✓	✓	✓
11.4	217	Distance between car and counterweight		✓	✓	✓	✓
12.2.1(b)	164	Emergency machine for traction drive lifts	✓	✓	✓		
12.4.1(a)	108	Interruption of motor power supply				✓	✓
12.4.1(b)	207	Preliminary operations				✓	✓
12.4.2.1	244	Minimum retardation of the brake		✓	✓		
12.4.2.3	196	Energising the brake		✓	✓		
12.5	147	Removable hand wheel	✓	✓	✓		
12.5.5.2	538	Accessibility of rupture valve					✓
12.5.6.2	538	Accessibility of rupture valve					✓
12.5.7	502	Hydraulic control					✓
12.5.7	178	Filter				✓	✓
12.7.1	552	Monitoring device, main contactors				✓	
12.7.1	108	Interruption of motor power supply	✓	✓	✓		
12.7.3(a)	552	Monitoring device, main contactors				✓	
12.7.3	259	Combination of control and monitoring device		✓	✓		
12.8	533	Striking speed on buffers				✓	
12.9	118	Protective measures in machine room	✓	✓	✓		
12.9.1.5	175	Design of the manually operated emergency lowering valve				✓	✓
12.9.1.5	225	Safety against slack rope/chain at the manual emergency				✓	✓
12.11	118	Protective measures in machine room				✓	✓
12.12.4	554	Motor run time limiter					✓
12.13	268	Operation of the temperature detecting device				✓	✓
13	18	Printed circuits	✓	✓	✓	✓	✓
13.1.1.2	541	Electric installations, wiring, method				✓	✓
13.1.2	519	Degree of protection — IP codes				✓	✓
13.1.2	263	IP-degree in the well		✓	✓	✓	✓
13.1.4	255	Power supply of automatic doors		✓	✓	✓	✓
13.1.4	257	Application of BS EN 60204		✓	✓	✓	✓
13.3.2	505	Door motor protection				✓	✓
13.3.2	186	Motor protection		✓	✓	✓	✓
13.3.3	186	Motor protection		✓	✓	✓	✓
13.4.2	506	Main switch — multiple				✓	✓
13.5.1.3	541	Electric installations, wiring, method				✓	✓
13.5.3.3	119	Light switch	✓	✓	✓	✓	✓
13.5.3.6	541	Electric installations, wiring, method				✓	✓
13.6.1	563	Electric supply of the lift				✓	✓
13.6.2	173	Socket outlets and switches for lighting	✓	✓	✓	✓	✓
14.1.1	213	Failure analysis for inspection operation		✓	✓	✓	✓

Table continues

Table A1.1 Interpretations to EN 81-1 and EN 81-2 (*continued*)

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
14.1.1.3	240	Position of contacts of contactors		✓	✓	✓	✓
14.1.2.1.2	123	Electric safety devices in neutral conductor		✓	✓	✓	✓
14.1.2.1.3	510	Electrical safety circuit monitoring				✓	✓
14.1.2.1.3	515	Bypass of landing/car door contacts				✓	✓
14.1.2.1.3	548	Safety circuits				✓	✓
14.1.2.1.3	540	Inspection controls in relation to glass lifts				✓	✓
14.1.2.1.4	507	Emergency electrical operation				✓	
14.1.2.4	196	Energising the brake		✓	✓	✓	✓
14.1.2.4	553	Electric safety chain			✓		✓
14.2	267	Use of emergency electrical operation				✓	✓
14.2	558	Emergency electrical control					✓
14.2.1.2	196	Energising the brake		✓	✓	✓	✓
14.2.1.2	263	ip-degree in the well		✓	✓	✓	✓
14.2.1.3	101A	Inspection control station arrangements	✓	✓	✓	✓	✓
14.2.1.3	120	Inspection control	✓	✓	✓	✓	✓
14.2.1.3	133	Timer in inspection operation circuit	✓	✓	✓	✓	✓
14.2.1.3	183	Inspection controls and door movements	✓	✓	✓	✓	✓
14.2.1.3	265	Inspection control and door movements		✓	✓	✓	✓
14.2.1.3	570	Inspection control			✓		✓
14.2.1.4	136	Emergency electrical arrangements	✓	✓	✓		
14.2.1.4	267	Use of emergency electrical operation		✓	✓		
14.2.1.5	200	Protection against phase reversal				✓	✓
14.2.1.5.1	258	Activation of the re-levelling device				✓	✓
14.2.2	223	Failure analysis for inspection operation		✓	✓	✓	✓
14.2.2.1	98	Car stop switch in docking operation	✓	✓	✓	✓	✓
14.2.2.2	531	In car stopping device				✓	✓
14.2.2.3(a)	101A	Inspection control station arrangements	✓	✓	✓	✓	✓
14.2.3.3	514	Duplex voice operation				✓	✓
14.2.4.3	126	Car direction indicators	✓	✓	✓	✓	✓
14.2.4.3	215	Signal indicating the direction of the car		✓	✓	✓	✓
15	511	Type certificates, safety devices				✓	✓
15	522	Marking electronic components				✓	✓
15.2	211	Advertising message in the car		✓	✓	✓	✓
15.2.3.1	125	Push button for alarm signal	✓	✓	✓	✓	✓
15.2.3.2	198	Identification of controls in the car		✓	✓	✓	✓
15.9	218	Indication of the level of car stop		✓	✓	✓	✓
16.1.3	543	Type examination certificate				✓	✓
16.2(a)(6)	519	Degree of protection — IP codes				✓	✓
Annex A	137	Combination of electric safety devices	✓	✓	✓	✓	✓
Annex D	242	Verification: phase reversal, motor run time limiter, speed		✓	✓	✓	✓
Annex D2	556	Safety gear test, suspension failure					✓
Annex D2	560	Electromechanical brake				✓	
Annex D2(g)(1)	160	Governor tripping speed check				✓	✓
Annex D2(h)(2)	138	Traction tests	✓	✓	✓		
Annex D2(h)(2)	165	Traction examination	✓	✓	✓		
Annex D2(i)(1)	160	Governor tripping speed check	✓	✓	✓		
Annex D2(n)(1)	528	Check rope slackening					✓
Annex E	242	Verification: phase reversal, motor run time limiter, speed		✓	✓	✓	✓

Table continues

Table A1.1 Interpretations to EN 81-1 and EN 81-2 (*continued*)

Clause	No.	Brief description	EN 81-1			EN 81-2	
			1978	1985	1998	1987	1998
Annex F0.2	543	Type examination certificate				✓	✓
Annex F1.1.2	154	Extent of type tests on door locks	✓	✓	✓	✓	✓
Annex F4.3.2	149	Indication of rated speeds for overspeed governor	✓	✓	✓	✓	✓
Annex F6	508	Tests — safety chain				✓	✓
Annex F6	548	Safety circuits				✓	✓
Annex H1	509	PCB safety circuits				✓	✓
Annex H1	510	Electrical safety circuit monitoring				✓	✓
Annex J1	504	Dimensions of glass				✓	
Annex J7	530	Hinged glass doors				✓	✓
Annex J7	529	Delete reference to national regulations				✓	✓
Annex J7	503	Fixing glass				✓	✓
Annex N	546	Sheave equivalent number evaluation				✓	
	595	In progress					
9.11, D2p; F.8	596	Unintended car movement			✓		
	597	In progress					
7.7.6	598	Mechanical links			✓		✓
12.5.1.2, 6.6.2	599	Unlocking zone			✓		✓
D.2i)	600	Tests before service			✓		✓
13.3	601	Self-monitoring, UCM					✓

Table A1.2 Supplementary list of interpretations to EN 81-1 and EN 81-2 (additional to Table A1.1)

Clause	No.	Brief description	EN 81-1: 1998	EN 81-2: 1998
5.7.2.3b)2)	587	Pit horizontal distance		✓
5.10	593	Emergency alarm device	✓	✓
6.5.5	583	Lighting and socket outlets	✓	✓
7.2.3.1	573	Mechanical strength of car/landing doors and car walls	✓	✓
7.2.3.1	574	Mechanical strength of car/landing doors and car walls	✓	✓
7.5.2.1.1/2	575	Kinetic energy of closing doors	✓	✓
7.7.3.2	576	Automatic closing and locking of landing doors	✓	✓
8.3.2.1	573	Mechanical strength of car/landing doors and car walls	✓	✓
8.3.2.1	574	Mechanical strength of car/landing doors and car walls	✓	✓
8.6.7.1	573	Mechanical strength of car/landing doors and car walls	✓	✓
8.6.7.1	574	Mechanical strength of car/landing doors and car walls	✓	✓
8.7.2.1.1/2	575	Kinetic energy of closing doors	✓	✓
8.7.2.1.1.3	577	Car door re-opening device	✓	✓
8.17.1	582	Lift car lighting intensity	✓	✓
8.17.4	586	Emergency escape lighting	✓	✓
8.17.5	593	Emergency alarm device	✓	✓
9.2.2	585	Calculation of rope safety factor	✓	
9.7 Table 2	594	Protection of traction sheaves	✓	
9.9.7	592	Overspeed governor, instantaneous safety gear	✓	✓
10.3.4	580	Energy accumulation buffers with non linear characteristics	✓	✓
10.3.6	580	Energy accumulation buffers with non linear characteristics	✓	✓
12.1	578	Levelling and stopping accuracy	✓	✓
13.4.1f	593	Emergency alarm device	✓	✓
14.2.3	579	Emergency alarm device	✓	✓

Table continues

Table A1.2 Supplementary list of interpretations to EN 81-1 and EN 81-2 (additional to Table A1.1) (*continued*)

Clause	No.	Brief description	EN 81-1: 1998	EN 81-2: 1998
14.2.3	593	Emergency alarm device	✓	✓
14.2.3	593	Emergency alarm device	✓	✓
14.2.3.3	562	Two-way voice communication	✓	✓
15.2.3.1	593	Emergency alarm device	✓	✓
15.12	593	Emergency alarm device	✓	✓
16.3	581	Maintenance instructions	✓	✓
Annex D.2.i)1)	588	Test of overspeed governor	✓	
Annex D.2,m)	593	Emergency alarm device	✓	
Annex D.2,z)	593	Emergency alarm device		✓
Annex F.3.2.4.1	592	Overspeed governor, instantaneous safety gear	✓	✓
Annex N	585	Calculation of rope safety factor	✓	

Table A1.3 Interpretations to EN 81-20

Clause	No.	Brief description
5.9.2.2.2.9	001	Rescue operation
5.9.2.2.2.9, 5.9.2.3	002	Emergency operation
5.9.2.3.3	003	Emergency electrical operation
	004	In progress
5.3.6.2.2.1	005	Door protection, light curtain
5.5.7.2	006	Retainers
5.3.15.1	007	Opening a car door
5.2.3.3	008	Strength of access etc doors
5.12.1.9	009	Monitoring faulty door contacts
5.7.2.1.2, 5.7.4.6, E2	010	Guide rails, deflection, displacement
5.7.2.3.5	011	Guide rails
5.4.10	012	Lighting
Annex A	013	Minimum SIL
	014	In progress
5.4.2.2.1b)4) 5.4.2.2.1v)	015	Hydraulic levelling
	016	In progress
	017	In progress
	018	In progress
5.2.6.4.4.1; 5.12.1.5.2.2	019	Pit inspection control
5.2.6.4.4.1; 5.12.1.5.2.2	020	Faulty door contacts
5.4.2.3.2	021	Data plate in car, height of character

Table A1.4 Interpretations to EN 81-21

Clause	No.	Brief description
5.7.4	001	Visual, audible; information
6.2	002	Test before service
5.5.3.1; 5.7.3.1	003	Additional electric device

Table A1.5 Interpretations to EN 81-28

Clause	No.	Brief description
4.1.4	001	Visual and audible signals
4.1.3	002	Pictograms

Table A1.6 Interpretations to EN 81-50

Clause	No.	Brief description
Table 3	001	Failure exclusion
5.14.2.2	002	Pendulum shock device
5.12.2.2	003	Undercut V-groove

Table A1.7 Interpretations to EN 81-58

Clause	No.	Brief description
11.5.2.2	001	Thermocouples
11.5.3.2	001	Thermocouples

Table A1.8 Interpretations to EN 81-70

Clause	No.	Brief description
5.4 Table 2g)	001	Control buttons feedback
5.4.3	002	Control devices signals
7.5.2.1.1.3	003	Passenger protection device
5.2.4	004	Passenger protective device
5.3, Table B.1	005	Minimum car dimensions
5.4.2.2,	006	Extra large (XL) control devices
Annex G.1	006	Extra large (XL) control devices
5.4.2, Table 2	007	Landing call buttons, arrows
5.3.2.3	008	Mirror, safety glass
5.4.2.3	009	Car operating panel, two entrance lift
5.4.2.3	010	Car operating panel, two entrance lift
5.4.2.3	011	COP, two entrances
5.4.2.2a)	012	Position of door close button
5.4.2.1	013	ID car buttons

Table A1.9 Interpretations to EN 81-72

Clause	No.	Brief description
5.1.2	001	Protection of control electronics
5.8.8.9	002	Landing control — malfunction
5.8.5	003	Firefighters lift switch
5.8.2	004	Firefighters switch — triangle key
5.4.3a)	005	Rescue ladder
5.4.7	006	Rescue ladder
5.8.8d)	007	Call registration — re-opening of the door
5.8.2	008	Firefighter switch
5.8.8	009	Hidden car operating panel
5.11.3	009	Hidden car operating panel
5.4	010	Rescue
5.1.1	011	Fire resistance — well
5.1.1, para 2	012	Machine room — fire resistance
5.1.4	013	Temperature
5.1.1	014	Protection of equipment
5.8.5	014	Protection of equipment
1.2	015	Dual entry car
5.2.3	015	Dual entry car
5.8.9	015	Dual entry car

Table A1.8 Interpretations to EN 81-73

Clause	No.	Brief description
scope	002	application of standard
3.11; 5.3.1; 5.3.7	001	manual recall device

A1.7 A simple guide to the system of the ISO 8100 to ISO 8105 series of standards

The ISO 8100 – 8105 series of standards is continually changing and will replace most of the CEN standards post-2020. This list gives a simple idea of the forthcoming structure. The list is correct at the time of going to press (September 2020). Some existing EN and ISO standards map across. Others are not yet decided. The last column subject to change. Missing numbers are kept free.

Table A1.9 System of ISO 8100–8105 series of standards

ISO Number	Standard name	CEN/ISO equivalent
8100 Series: Lifts for the transport of persons and goods		
8100-1:2019	Safety requirements for passenger and good passenger lifts	
8100-2:2019	Design rules, calculations, examinations and tests of lift components	
8100-3:2019	Regional differences (North America and Japan) for passenger and goods passenger lifts (elevators)	New
8100-4	Firefighters lifts	Future EN 81-72?
8100-5	New lifts in existing buildings	Future EN 81-21?
8100-6	Remote alarm for passengers and goods passenger lifts	Future EN 81-28?
8100-7:2020	Control devices, signals and additional fittings	
8100-8	Specific requirements for lifts in ship	ISO 8383

Table continues

Table A1.9 System of ISO 8100–8105 series of standards (*continued*)

ISO Number	Standard name	CEN/ISO equivalent
8100-10:2017	System of the ISO 8100 to ISO 8105 series of standards	New
8100-11	Interpretations related to ISO 8100 series of standards	New (aka EN 81-11)
8100-20:2018	Global essential safety requirements (GESRs)	
8100-21:2018	Global safety parameters (GSPs) meeting the global essential safety requirements (GESRs)	
8100-22	Prerequisites for certification of conformity of lift systems, lift components and lift functions within global conformity assessment procedures (GCAP)	ISO/TS 22559-3
8100-23	Certification and accreditation requirements within global conformity assessment procedures (GCAP)	ISO/TS 22559-4
8100-24:2016	Convergence of safety requirements for lifts	
8100-30:2019	Class I, II, III and VI lifts installation	
8100-31	Class IV lifts installation	ISO 4190-2
8100-32:2020	Planning and selection of passenger lifts to be installed in residential, hotels and office buildings	
8100-33:2017	T-type guide rails for lift cars and counterweights	
8100-34	Measurement of lift ride quality	ISO 18738-1
8101 Series: Fire safety on lifts		
8101-1	Requirements for lifts used to assist in building evacuation	ISO/TS 18870
8101-10:2020	Comparison of worldwide safety standards on lifts for firefighters	
8101-11	Interpretations to ISO 8101 series of standards	Future
8101-12:2020	Study of the methods used for fire testing lift landing doors	
8101-13	Study into the use of lifts for evacuation during an emergency	ISO/TR 25743
8102 Series: Electrical requirements for lifts, escalators and moving walks		
8102-1:2020	Electromagnetic compatibility with regard to emission ISO 22199	
8102-2:2018	Electromagnetic compatibility with regard to immunity	
8102-5	Programmable electronic systems in safety related applications on lifts (PESSRAL)	ISO 22201-1
8102-6:2019	Programmable electronic systems in safety related applications on escalators and moving walks (PESSRAE)	
8102-7	Life cycle guideline for programmable electronic systems in safety related applications on lifts (PESSRAL) and escalators (PESSRAE)	ISO 22201-3
8102-11	Interpretations to ISO 8102 series of standards	Future
8103 Series: Escalators and moving walks		
8103-1	Safety requirements	EN 115-1
8103-5	Global essential safety requirements (GESRs)	ISO/TS 25740-1
8103-6:2017	Safety parameters meeting the GESRs	
8103-8	Building Dimensions for escalators	ISO 9589
8103-9	Measurement of ride quality	ISO 18738-2
8103-11	Interpretations to ISO 8103 series of standards	Future
8104 Series: Improvement of safety on existing lifts and escalators		
8104-1	Passengers and goods passenger lifts	Future EN 81-80?
8104-2	Improvement of accessibility on existing passengers and goods passenger lifts	Future EN 81-82?
8104-3	Improvement of vandal resistance on existing passengers and goods passenger lifts	Future EN 81-83?
8104-10	Escalators & moving walks	Future EN 115-2?
8104-11	Interpretations to ISO 8104 series of standards	Future

Table continues

Table A1.9 System of ISO 8100–8105 series of standards (*continued*)

ISO Number	Standard name	CEN/ISO equivalent
8105 Series: Other lifting appliances or equipment		
8105-1	Powered vertical lifting platforms for persons with impaired mobility	ISO 9386-1
8105-2	Powered stair lifts and inclined lifting platforms intended for persons with impaired mobility	ISO 9386-2
8105-3	Lifting appliances in wind turbines	Future
8105-4	Service lifts (Dumbwaiter)	Future EN 81-3?
8105-5	Goods only lifts (Freight elevators)	Future EN 81-31?
8105-10	Service lifts Class V installation	ISO 4190-3
8105-11	Interpretations to ISO 8105 series of standards	Future
Other ISO standards not part of ISO 8100 to ISO 8105 series of standards structure		
ISO 3008-2	Lift landing door fire resistance test (with TC92/SC2)	
ISO/TR 11071-1	Comparison of worldwide lift safety standards: Part 1: Electric lifts (elevators)	
ISO/TR 11071-2	Comparison of worldwide lift safety standards : Part 2: Hydraulic lifts (elevators)	
ISO 14798	Risk assessment and reduction	
ISO/TR 14799-1	Comparison of worldwide escalator and moving walk safety standards: Part 1: Rule by rule comparison	
ISO/TR 14799-2	Comparison of worldwide escalator and moving walk safety standards: Part 2: Abbreviated comparison and comments	
ISO/TR 16764	Lifts, escalators and passenger conveyors. Comparison of worldwide standards on electromagnetic interference/electromagnetic compatibility	
ISO 22201-1	Lifts (elevators), escalators and moving walks. Programmable electronic systems in safety-related applications: Part 1: Lifts (elevators) (PESSRAL)	
ISO/TR 25741	Lifts and escalators subject to seismic conditions. Compilation report	
ISO 25745-1	Energy performance of lifts, escalators and moving walks: Part 1 : Energy measurement and verification	
ISO 25745-2	Energy performance of lifts, escalators and moving walks: Part 2: Energy calculation and classification for lifts (elevators)	
ISO 25745-3	Energy performance of lifts, escalators and moving walks: Part 3: Energy consumption and classification of escalators and moving walk	