Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 1709:2004	Safety requirements for cableway installations designed to carry persons - Precommissioning inspection, maintenance, operational inspection and checks ()is to establish the rules to the pre- commissioning ins		2004-08-23 ince and operation	onal checks of installations for	
	passenger transportation by rope. Its requirements will be observed taking into account the various systems and their respective environment. It includes requirements relating to worker protection. It does not apply to installations for the transportation of goods by rope or to inclined lifts. This standard does not deal with acceptance testing prior to opening to the public.				
EN 1907:2005	Safety requirements for cableway installations designed to carry persons - Terminology () defines general terms used in the safety requirements for concerns terms used in the design, manufacture, erection, must hose terms which form part of the vocabulary specific to the everyday use, which have a particular meaning in this field of apply both to a particular installation and to their component foreword are defined in each of these standards. This document to inclined lifts. In the application of this document, the following numbers below.	aintenance and opese installations; repears ts. Terms which and the open of apply to the analysis and does not apply the analysis and the anal	peration of the ins - those terms, wh necessary to defare specific to state to installations for	stallations and is restricted to: - nether scientific, technical or in ine in greater detail. The terms andards which are listed in the the transportation of goods, nor	

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações		
EN 1908:2015	Safety requirements of cableway installations designed	CEN/TC 242	2014-09-14			
	to carry persons - Tensioning devices					
	() specifies the safety requirements applicable on the tensic	oning devices for	cableway installati	ons designed to carry persons.		
	This document is applicable to the various types of cableway ir	nstallation and tak	es into account the	eir environment. This document		
	applies to the design, manufacture, installation, maintenance	e and operation	of rope tensionin	g devices and anchorages of		
	cableway installations designed to carry persons. It also include	es requirements re	elating to accident	prevention and to the protection		
	of workers irrespective of the application of national regulations. National regulations of a construction or regulatory nature or those					
	which serve to protect specific groups of persons remain unaffected. This European Standard does not apply to cableway					
	installations intended for the transport of goods nor to lifts.					
EN 1909:2017		051/70.040	004=0=44			
EN 1909.2017	Safety requirements for cableway installations designed	CEN/TC 242	2017-05-14			
	to carry persons - Recovery and evacuation					
	() specifies the safety requirements applicable to the recovery of carriers and the evacuation of passengers from cableway					
	installations designed to carry persons, with the exception	n of ski-tows. T	his standard is a	applicable to various types of		
	installations and takes into account their environment. This document establishes the requirements relating to the methods and					
	equipment to be used to ensure the safety of passengers on cableways in the event of extended stoppage of the installation. It					
	covers only the situation resulting from immobilization of the carriers, even if the passengers are not in immediate danger. It					
	does not cover specific operations resulting from an accident. It includes requirements relating to the prevention of work					
	accidents and to worker protection, without prejudice to the application of national regulations in the construction sector, of					
	provisions of a regulatory nature, or provisions which are int	ended for the pro	tection of specific	groups of people. It does not		
	apply to installations for the transportation of goods by rope of	or to lifts. It does	not deal with desi	gn requirements for carriers.		

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 12385-8:2002	Steel wire ropes - Safety - Part 8: Stranded hauling and carrying-hauling ropes for cableway installations designed to carry persons	CEN/TC 168	2003-11-16		
	() specifies the additional materials, manufacturing and testing requirements to those given in Part 1 for stranded steel wire 'hauling' and 'carrying-hauling' ropes for cableway installations designed to carry persons. The rope grade is limited to 1960. Minimum breaking force values for the more common classes, sizes and grades of rope are provided in Tables 2, 3 and 4. Stranded tension ropes and ski-tow ropes for surface lifts are covered by prEN 12385-4. The additional hazards covered by this European Standard are identified in clause 4.				
EN 12385-9:2002	Steel wire ropes - Safety - Part 9: Locked coil carrying ropes for cableway installations designed to carry persons () specifies the additional materials, manufacturing and test		2003-11-16 s to those given in	Part 1 for locked coil carrying	
	ropes for cableway installations designed to carry persons.		3	, 3	

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 12397:2017	Safety requirements for cableway installations designed to carry persons - Operation	CEN/TC 242	2017-05-14		
	() specifies the safety requirements applicable to the operation of installations for passenger transportation by cable. This standard is applicable to the various types of installations and takes into account their environment. This European Standard applies to the operation of an installation and to the passenger transport conditions and also contains requirements for passengers. It is applicable to individual installations or a set of installations. It does not cover legal provisions for the transport service nor transport obligations. It includes requirements relating to the prevention of accidents and protection for workers, as well as to fire prevention and fire-fighting, without affecting the application of national requirements relating to construction law or statutory law, or to the protection of specific groups of people. It does not apply to installations for the transportation of goods nor to lifts.				

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações
EN 12408:2004	Safety requirements for cableway installations designed	CEN/TC 242	2005-03-10	
	to carry persons - Quality assurance			
	()specifies the safety requirements applicable to quality assi	urance for cablew	ay installations de	signed to carry persons. It sets
	out provisions for the procedures for quality assurance which	supplement the	requirements of the	ne other standards cited in the
	foreword. It is applicable to the different cableway systems. The	is document appl	ies to suppliers of	cableway installations designed
	to carry persons or of safety components for cableway installa	ations designed to	carry persons, reg	gardless of whether or not they
	maintain a quality management system conforming to EN ISO	9001 certified by	a certification body	y accredited in accordance with
	EN 45012. The provisions of clause 4 apply in all cases. In ac	ldition, if quality m	nanagement syster	ns are used, reference shall be
	made to EN ISO 9001. For the case of suppliers who do not m	aintain any quality	/ management sys	tem in accordance with EN ISO
	9001, the provisions of this document are to be regarded as mi	nimum requireme	nts. The requireme	ents relating to the traceability of
	safety components, which are applicable to all suppliers, are	intended to facilit	ate the recall or the	he investigation of components
	which threaten to endanger safety. The requirements in this	document are in	tended to ensure	quality and do not replace the
	technical requirements in standards EN 1709, EN 1908, EN 19	009, EN 12927 1,	EN 12927 2, EN 12	2927 3, EN 12927-4, EN 12927
	5, EN 12927 6, EN 12927 7, EN 12927 8, EN 12929 1, EN 129	29 2, EN 12930, I	EN 12397, EN 131	07, EN 13223, EN 13243, prEN
	13796 1, prEN 13796-2 and prEN 13796-3, but supplement th	em. This docume	nt is not applicable	e either to cableways for goods
	transport or to inclined lifts.			

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações		
EN 12927-1:2004	Safety requirements for cableway installations designed to carry persons - Ropes - Part 1: Selection criteria for ropes and their end fixings	CEN/TC 242	2004-08-23	and fivings for installations for		
	() specifies the safety requirements applicable to the selection criteria for ropes and their end fixings for installations for passenger transportation by rope. Its requirements are to be met taking into account the various types installations systems and their environment. () provides guidance on the selection of ropes and their end fixing for use on cableways. It does not apply for transportation of goods nor to inclined lifts.					
EN 12927-2:2004	Safety requirements for cableway installations designed to carry persons - Ropes - Part 2: Safety factors	CEN/TC 242	2004-08-23			
	 () specifies the safety requirements applicable for safety factors for steelwire ropes (tensiles safety factor, bending ratio and transverse force factors) for installations for passenger transportation by rope. () is applicable to various types of installations and takes into account their environment. () does not apply to brake ropes. Some requirements concern synthetic ropes. The requirements relating to the protection of workers are not included in this standard. It does not apply to ropes for installations used for the transportation of goods, nor to inclined lifts. 					

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações		
EN 12927-3:2004	Safety requirements for cableway installations designed to carry persons - Ropes - Part 3: Ropes - Part 3: Long splicing of 6 strand hauling, carrying hauling and towing	CEN/TC 242	2004-08-23			
	() specifies the safety requirements applicable to long splicing of 6 strand hauling, carrying hauling and towing ropes for installations for passenger transportation by rope. () is applicable to various types of installations systems and their environment. () applies to the requirements for the long splicing, repair and shortening of hauling and carrying hauling ropes that meet the requirements of EN 12385-8. () does not apply to installations for the transportation of goods, nor to inclined lifts.					

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 12927-4:2004	Safety requirements for cableway installations designed	CEN/TC 242	2004-08-23		
	to carry persons – Ropes – Part 4: End fixings				
	 () specifies the safety requirements applicable to end fixings of steel wire ropes for installations for passenger transportation by rope. () is applicable to various types of installations systems and takes into account their environment. () applies to the following types of end fixing when used in installations for passenger transportation by ropes in conformity with EN 12927-1. - filled socket; - clamp socket; - drum; - bolted clamp; 				
	- wedge socket;- spliced eye;				
	- spilced eye; - gripped eye;				
	- ferrule secured eye;				
	- lever winch.				
	Taking its scope into account, it does not include requireme workers.	nts relating to th	e prevention of sc	cidents and the protection for	
	It does not apply to installations for the transportation of goods,	nor to inclined lifts	S		

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 12927-5:2004	Safety requirements for cableway installations designed to carry persons – Ropes – Part 5: Storage, transportation, installation and tensioning	CEN/TC242	2004-08-23		
	() specifies the safety requirements for the storage, transportation, installation and tensioning of ropes for installations for the transportation of passenger by rope. It also includes the requirements for adjusting, measuring and recording the condition of the rope during and on completion of the installation. It provides the safety requirements and measures to reduce the effect of hazard to the rope and possible hazards from the rope to persons and equipment during these operations. It does not apply to installation for the transportation of goods, nor to inclined lifts.				
EN 12927-6:2004	Safety requirements for cableway installations designed to carry persons – Ropes – Part 6: Discard criteria	CEN/TC242	2004-08-23		
	() specifies the safety requirements applicable to discard criteria for steel ropes for passenger transportation by rope. () is applicable to the various types of installations and takes into account their environment. () applies to all types of ropes and end fixing used in cableways for passenger transport. Some requirements concern synthetic ropes. Requirements relating to the protection of workers are not included in this part of EN 12927. () is not applicable to installations for the transportation of goods nor to inclined lifts.				

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 12927-7:2004	Safety requirements for cableway installations designed to carry persons – Ropes – Part 7: Inspection, repair and maintenance	CEN/TC 242	2004-08-23		
	() specifies the safety requirements applicable to maintaining, inspecting and repairing steel wire ropes an installations for passenger transportation by rope. It is essential to meet its requirements taking into account the v installation systems and their environment. Some requirements concern synthetic ropes. Requirements relating to the workers are not included in this part of EN 12927. This part does not apply to installations for transportation of inclined lifts.				
EN 12927-8:2004	Safety requirements for cableway installations designed to carry persons – Ropes – Part 8: Magneticrope testing (MRT)		2004-08-23		
	 () specifies the minimum requirements of MRT equipment of MRT equipment and procedures for use in the examination of steel wire ropes used on cableways for passenger transport. Performance requirements and testing of MRT equipment and qualification of personnel engaged in carrying out MRT are also included. () does not included requirements relating to the protection of workers. 				

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações		
EN 12929-1:2015	Safety requirements for cableway installations designed	CEN/TC 242	2015-02-13			
	to carry persons - General requirements - Part 1:					
	Requirements for all installations					
	() This part of EN 12929 specifies the safe	ety requiremen	nts for the g	eneral requirements for		
	cableway installations designed to carry perso	ons. These red	quirements are	applied to the various		
	types of installations and their environm	ment. This	document defi	nes general technical		
	characteristics and prescribes design principles and general safety requirements. It does not					
	deal with details of operation and maintenance, nor with calculations and detailed requirements					
	for the manufacture of components. This Part 1 does not deal with special regulations applicable					
	to bi-cable reversible aerial ropeways withou	t carrier tru	ıck brakes, wh	nich are the subject of		
	Part 2. It includes requirements relating to the prevention		•			
	cableway installations for transportation of goods or to lifts. Clause 11 describes the minimum requirements to be normatively					
	, , ,	satisfied for passageways and work areas. National regulations of a building or federal/state nature or which serve to protect				
	1	particular groups of people remain unaffected. It may not always be possible for all types of cableway installation to transport all				
	particular groups of people (e.g. persons with restricted mobility	• •	should be, however	er, for a cableway installation to		
	enable the transportation of the largest possible passenger pop	ulation.				
	1.2 General principles					
	1.2.1 Stringent safety requirements are of the utmost important	_		•		
	of cableway installations. The design, manufacture, erection, r		•	,		
	contractors and experts who have the necessary knowledg	•				
	installation and proper management of the operation. All the co	•		,		
	electrical design and be manufactured from adequate, defect-fr	ee materials poss	essing the required	characteristics.		

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações
EN 12929-1:2015	Safety requirements for cableway installations designed to carry persons – General requirements – Part 1: Requirements for all installations	CEN/TC 242	2015-02-13	

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 12929-2:2015	Safety requirements for cableway installations designed to carry persons – General requirements – Part 2: Additional requirements for reversible bicable aerial ropeways without carrier truck brakes		2015-03-16		
	() specifies additional safety requirements for bicable reversible aerial ropeways without carrier truck brakes. This document is applicable to the various types of cableway installations and takes into account their environment. This Part of the EN 12929 contains: - additional requirements relating to the integrity of the haul rope loop; - additional requirements intended to prevent specific operational incidents; - requirements concerning the attachment of the carriers to the haul rope. This European Standard does not apply to cableway installations for transportation of goods nor to lifts.				
EN 12930:2015	Safety requirements for cableway installations designed to carry persons – Calculations	CEN/TC 242	2015-03-16		
	() specifies the general safety requirements applicable to the calculations for cableway installations designed to carry persons. This document is applicable to the various types of cableway installations and takes into account their environment. This document contains: - general requirements for calculations and their presentation; - general requirements relating to the actions to be taken into account in the calculation of components as a basis for the requirements of the standards EN 13223, EN 13107, EN 12927 and EN 1908; - requirements relating to verification of ropes by calculation; - requirements relating to the determination of the drive power; - requirements for the actions of the ropes and carriers on the support structures and for the deformations of these support structures. This document does not apply to installations for the transportation of goods nor to lifts.				

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações
EN 13107:2015/ AC:2016	Safety requirements for cableway installations designed to carry persons – Civil engineering works	CEN/TC 242	2015-09-14	
() specifies the safety requirements applicable to civil engineering works for cableway installations designed to carry p doing so, the various types of cableway installations and their environment are taken into consideration. It includes recreating to the prevention of accidents and the protection of workers, notwithstanding the application of national repulational regulations regarding building or construction or that are designed to protect particular groups of peop unaffected. It does not apply to cableway installations for transportation of goods or to lifts. This European Standard is to: new cableway installations designed to carry persons; alterations to existing cableway installations, as far as the safe engineering works or parts of them is involved and no contrary specifications apply.				ration. It includes requirements ication of national regulations. ular groups of people remain uropean Standard is applicable
EN 13223:2015	Safety requirements for cableway installations designed to carry persons – Drive systems and other mechanical equipment	CEN/TC 242	2015-09-14	
	() specifies safety requirements for the mechanical and electrical devices of the drive system and other mechanical devices for cableway installations designed to carry persons. This standard is applicable to the various types of installations and takes into account their environment. This European Standard applies to the design, manufacture, installation, maintenance and operation of the mechanical and electrical devices of the drive system and other mechanical devices for cableway installations designed to carry persons. It includes requirements concerning the prevention of accidents and the protection of workers without prejudice to the application of national regulations. National regulations regarding building or construction or that are designed to protect particular groups of people, remain unaffected. It does not apply to installations for the transportation of goods, or to lifts. Clauses 6 to 11 apply to the mechanical and electrical devices of the drive system. Clauses 12 to 20 apply to other mechanical devices.			

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 13243:2015	Safety requirements for cableway installations designed to carry persons – Electrical equipment other than for	CEN/TC 242	2015-03-16		
	drive systems. () specifies safety requirements for electrical devices including application software, apart for those in drive systems for cableway installations designed to carry persons. This standard is applicable to the various types of cableway installations and takes into account their environment. It does not apply to complex electronics and embedded software. For complex electronics and embedded software, reference is made to the relevant publications e.g. EN 61508. Electromagnetic compatibility (EMC) is not covered in this standard; cableways and their components should comply with general requirements for EMC. For electrical devices which are part of drive systems, the requirements of those sections listed in the scope of EN 13223 as relating to drive systems should be observed. This standard contains requirements for the prevention of accidents and protection of workers without prejudice to the application of national regulations. National regulations of a legal nature in regards to building or regulations or that are designed to protect particular groups of people, remain unaffected. It does not apply to cableway installations for the transportation of goods by rope or to lifts.				
EN 13796-1:2017	Safety requirements for cableway installations designed to carry persons - Carriers - Part 1: Grips, carrier trucks, on-board brakes, cabins, chairs, carriages, maintenance carriers, tow-hangers	CEN/TC 242	2017-07-16		
	()specifies the safety requirements applicable to carriers for cableway installations designed to carry persons. It is applicable to the various types of installations and takes into account their environment. It includes requirements relating to the prevention of accidents and the protection of workers. It does not apply to installations for the transportation of goods or to inclined lifts.				

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações	
EN 13796-2:2017	Safety requirements for cableway installations designed to carry persons - Carriers - Part 2: Slipping resistance tests for grips	CEN/TC 242	2017-07-16		
	() specifies the safety requirements applicable to carriers for cableway installations designed to carry persons. It is applicable to the various types of installations and takes into account their environment. This European Standard describes the requirements to be met when testing the slipping resistance of grips clamped: - on the haulage or carrying hauling rope of carriers of monocable or bicable aerial ropeways with fixed or detachable grips, covered in EN 13796 1:2014, 7.5; - on the towing rope of ski-tows with fixed grips, covered in EN 13796 1:2014, 7.7.2. It does not apply to installations for the transportation of goods nor to inclined lifts.				
EN 13796-3:2017	Safety requirements for cableway installations designed to carry persons - Carriers - Part 3: Fatigue testing	CEN/TC 242	2017-07-16		
	() specifies the safety requirements applicable to carriers for cableway installations for passenger transportation. This standard is applicable to the various types of installations and takes into account their environment. This standard sets out the requirements to be met for fatigue tests for carriers of unidirectional monocable aerial ropeways of capacity not greater than 16 persons according to EN 13796 1:2014, 6.3.3.1. This standard does not apply to cableway installations for the transportation of goods or to inclined lifts.				

Referência	Título / Campo de Aplicação	Emissor	Data de adoção	Observações
EN 15700:2011	Safety for conveyor belts for winter sport or leisure use	CEN/TC 242	2012-01-31	
	() is applicable for travelators for leisure or winter sports use. These requirements are applicable to travelators for the transport of passengers wearing snow-sliding devices or pedestrians wearing ski boots or heavy boots who may be carrying their snow-sliding devices for winter sports activities. For other uses, users shall wear suitable (enclosed and solid) footwear for travelators. NOTE Snow-sliding devices include seated ski equipment for handicapped people. This European Standard has been prepared on the basis of the automatic operation of these installations with no staff permanently present at the actual installation. It covers requirements relating to the prevention of accidents and the safety of workers. This European Standard covers all the significant hazards, hazardous situations and hazardous events specific to travelators, for leisure or winter sports activities, when they are used in conformity with the application for which they are intended, as well as for inappropriate applications which could be reasonably foreseeable by the manufacturer (see Clause 4). This European Standard does not apply either to moving walks as specified in EN 115 or to loading bands as specified in EN 1907. This European Standard does not apply to travelators manufactured prior to the date of its publication as an EN.			