

- FORESEE -

Future proofing strategies FOr RESilient transport networks against Extreme Events

- Deliverable 8.2-

Standardization Landscape Report

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Final
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José Díez (ERF)/UNE
Report
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TABLE OF CONTENTS

1. List of Abbreviations	7
1.1. Standardization Organizations	7
1.2. Standardization Documents	7
2. Executive Summary	8
3. Introduction	10
3.1 National Standardization Organizations	10
3.2 European Standardization Organizations	11
3.3 International Standardization Organizations	
4. Methodology used to prepare the report	16
4.1. KEYWORDS	16
5. List of relevant standards and standardards under development	20
5.1. Technical Committees identification	20
5.2. Identified Standards sorted by Technical Committee	21
ISO/TC 59/SC 2 Buildings and civil engineering works. terminology and harmonization of languageS	21
ISO/TC 59/SC 13 Organization and digitization of information about buildings and civil engineering works, i building information modelling (BIM)	ncluding 23
ISO/TC 85/SC 2 Radiological protection	25
ISO/TC 98/SC 1 Bases for design of structures. Terminology and symbols	26
ISO/TC 98/SC 2 Bases for design of structures. Reliability of structures	27
ISO/TC 98/SC 3 Bases for design of structures. Loads, forces and other actions	28
ISO/TC 204 Intelligent transport systems	30
ISO/TC 207 Environmental management	61
ISO/TC 207/SC 7 Greenhouse gas management and related activities	63
ISO/TC 251 Asset management	65
ISO/TC 292 Security and resilience	66





IEC 9 Electrical equipment and systems for railways	71
CEN/ TC 46 Fireplaces for liquid fuels	79
CEN/ TC 168 Chains, ropes, webbing, slings and accessories – Safety	79
CEN/ TC 226 Road equipment	80
CEN/ TC 227 Road materials	88
CEN/ TC 250 Structural Eurocodes	88
CEN/ TC 250/SC 1 Eurocode 1: Actions on structures	89
CEN/TC 250/SC 2 Eurocode 2: Design of concrete structures	91
CEN /TC 250/SC 3 Eurocode 3 - Design of steel structures	93
CEN/TC 250/SC 4 Eurocode 4: Design of composite steel and concrete structures	96
CEN/TC 250/SC 8 Eurocode 8: Earthquake resistance design of structures	97
CEN/TC 256 Railway applications	98
CEN/TC 262 Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of m and alloys	netals 141
CEN/TC 278 Intelligent transport systems	141
CEN/TC 350/WG 6 Civil Engineering works	159
CEN/TC 391: Societal and Citizen Security	160
CEN/TC 442 Building Information Modelling (BIM)	162
CEN/TC 459/SC 1 European Committee for Iron and Steel Standardization. Test methods for steel (other than chemical analysis)	164
CEN/TC 459/SC 6 European Committee for Iron and Steel Standardization. Wire rod and wires	165
CEN/TC 459/SC 12 European Committee for Iron and Steel Standardization. General ISSUES	165
CLC/SC 9XA Electrical and electronic applications for railways. Communication, signalling and processing system	ns 166
6. Correlation of standards with foresee work packages	169
7. Conclusion: RoadMap for PRE-standardization activities in the proJect	173
7.1 Task 8.4.1: current standardization framework 7.2 task 8.4.2: standardization activities to be completed during the project	



Page **5** of 203



D8.2 Standardization Landscape Report

8.	Annexes	176
	8.1 Standards related to WP 2	. 176
	8.1 Standards related to WP 3	. 183
	8.1 Standards related to WP 4	. 185
	8.1 Standards related to WP 7	. 188





1. LIST OF ABBREVIATIONS

This page is provided as a reference source to help the reader in the event that those terms or abbreviations encountered are unfamiliar or are used in a specific sense in the document.

The following abbreviations related to standardization are used:

1.1. STANDARDIZATION ORGANIZATIONS

BSI	British Standards Institution
UNE	Spanish Association for Standardization
CEN	European Committee for Standardization
CENELEC (CLC)	European Committee for Standardization in the Electrical field
DIN	Deutsches Institut für Normung
ISO	International Organization for Standardization
IEC	International Electrotechnical Commission
TC	Technical Committee
SC	Subcommittee
WG	Working Group

1.2. STANDARDIZATION DOCUMENTS

EN	European Standard
TR	Technical Report
TS	Technical Specification
HD	Harmonization Document
CWA	CEN Workshop Agreement
ISO	International Standard
IEC	International Standard
IWA	International Workshop Agreement
PAS	Public Available Specification (ISO)
WI	Work Item
prEN	Project of European Standard
FprEN	Final Project of European Standard
WD	Working Draft
CD	International Committee Draft
CDV	Committee Draft for Voting (IEC)
DIS	Draft International Standard
FDIS	Final Draft International Standard





2. EXECUTIVE SUMMARY

As a European Standardization Body, Asociación Española de Normalización (UNE) (the Spanish Association for Standardization and Certification) is providing support regarding the standardization tasks included in the FORESEE project.

This document is providing answers to Task 8.4, Pre-Standardization Activities, and in particular is the result of SubTask 8.4.1, existing standards. This deliverable will consist of an initial analysis of the standardization landscape, starting from the needs of other FORESEE WPs about existing standards that can be related, as well as the related standardization committees and organizations involved (Task 8.4).

In order to fulfil this commitment, this deliverable D 8.2 'Standardization Landscape Report' has been prepared to provide the partners with information about the relevant state-of-the-art in standardization, including related standardization technical committees, published standards and standards under development, which have implications for the project objectives and development.

The methodology applied to identify the standardization landscape in this D8.2 has involved researching the CEN, ISO and IEC System by keywords and key issues connected with FORESEE Project, followed by the feedback given by the Partners after specific queries launched in previous document versions. This interaction with all Consortium members has guaranteed the inclusion in D.8.2 of all Consortium standardization needs, engaging the consortium members in the compilation of the draft. Addressing all the mentioned key issues aligned with the project needs has been the focus in the drafting of this document, that will be an important tool for all partners in their relevant activities.

An overview of the members engagement process in the development of D.8.2 is showed below:

- The first version of this D.8.2 was circulated to members in 21st March for comments and further needs for their WPs.
- On 29th March 2019, comments received from Fraunhofer were considered and included in the document (V.3). This comments where related to the inclusion of Climate Change Adaptation (CCA) standards in the list of standards in D.8.2
- On 3rd April 2019, during the Plenary FORESEE Meeting, a slot for presenting (V.3) of the document was booked. During the presentation all partners agreed with Fraunhofer's suggestion





for including CCA standards, and all members were asked about other needs not included in the document. Consequently, an extra period of comments was opened to the Consortium.

 On 3rd April 2019, after the above-mentioned meeting RINA gave feedback regarding the importance of ISO 31050 "Guidance for managing emerging risks for enhanced resilience", currently under development in ISO/TC 262 "Risk Management". This input was included in V.4

All these inputs resulted in Chapter 5 ("List of relevant standards and standards under development") of the deliverable that was issued on May 2019 (V.4). This chapter shows all standards that can be of interest to the WPs of the Project, either as active tools in their developments or as elements of consultation that may be useful at any time in the project.

After this approach from 18th September to 18th October 2019, members were asked again for an extra filtering and classification action of the standards in order to identify in an independent chapter, Chapter 6, standards that are more directly related to WPs based on their relevance in the works that are being developed.





3. INTRODUCTION

This chapter is a general explanation, identical in the equivalent "Standardization landscape" reports produced by UNE in all the projects in which UNE is a partner or contributes under subcontracting. The content is based on general information and training materials about the Standardization system available in UNE.

Standards are voluntary technical documents that set out requirements for a specific item, material, component, system or service, or describes in detail a particular method, procedure or best practice. Standards are developed and defined through a process of sharing knowledge and building consensus among technical experts nominated by interested parties and other stakeholders - including businesses, consumers and environmental groups, among others. These experts are organized in Technical Committees (TCs), which are subdivided in Subcommittees (SCs) and/or Working Groups (WGs). These TCs are included in the structure of the Standardization Organizations (National, European and International, with the respective mirror committees) and work following their internal regulations.

The standardization bodies operate at National (Asociación Española de Normalización (UNE), Association Française de Normalisation (AFNOR), British Standard Institute (BSI), Deutsches Institut für Normung (DIN), etc), Regional (CEN, CENELEC, ETSI) or International (International Organization for Standardization (ISO), International Electrotechnical Commission (IEC)) level. Sometimes there are different standardization bodies at the same level but covering different fields. This is the case of ISO (general) and IEC (electrical) at International level, or CEN, CENELEC and ETSI at European level in the same way.

In the next subchapters, more detailed information is provided.

3.1 NATIONAL STANDARDIZATION ORGANIZATIONS

The National Standardization Organizations (UNE, AFNOR, BSI, DIN, etc.) are the organizations officially recognized at national level as being able to represent all standardization interests in their country. They are responsible for developing national standards in their countries and they are the members of ISO, IEC, CEN and CENELEC (note that ITU and ETSI have a different membership policy). National stakeholders interested in standardization activities are able to take part in the process at European or International level through their national standardization organization.





The legal status of National Standardization Organizations varies from one country to another. The most typical status is a private non-profit organization whose members are national business associations and companies, but sometimes the National Standardization Organization is a part of the Public Administration.

As stated in sub-clause 3.2, the European Standardization System guarantees that European Standards are identically adopted by all the National Standardization Organizations and any national conflicting standard is withdrawn, through the commitment of the Standstill Agreement. This means the national catalogues of standards have a big level of coherence across Europe and that the European Standardization System helps to achieve the goal of the single market objetive.

3.2 EUROPEAN STANDARDIZATION ORGANIZATIONS

The European Standardization system plays a major role in the EU Single Market, enabling the free circulation of goods among 34 countries. The European standardization system relies on a single standard model. European standards are identically adopted by all the National Members and any national conflicting standard is withdrawn. European standards facilitate compliance with EU harmonization legislation, hence the entry and free circulation of goods in the EU Single Market, based on a set of requirements equally applicable in all Member States of the European Union.

European Standardization Organizations work closely with their international level counterparts, in order to avoid duplication of efforts and promote global relevance of standards. As a result of this, 31% of CEN standards are identical to ISO standards and 72% of CENELEC standards are identical to IEC standards.

CEN, CENELEC and ETSI have been officially recognized by the European Union (EU) and by the European Free Trade Association (EFTA) as European Standardization Bodies responsible for developing standards at European level (see Table 1).





European Committee for Standardization	CEN is a non-profit association whose members are the national standards bodies of 33 European countries. It develops standards in fields not related to electrotechnology nor telecommunications. It is the counterpart at European level of ISO.
CENELEC	CENELEC is a non-profit association whose members are the national
European Committee for	standards bodies of 33 European countries. It develops standards in fields
Electrotechnical	related to electrotechnology. It is the counterpart at European level of
Standardization	IEC.
European	ETSI is a non-profit organization with more than 800 member
Telecommunications	organizations worldwide. It develops standards for Information and
Standards Institute	Communications Technologies (ICT).

 Table 1. European Standardization Organizations

3.3 INTERNATIONAL STANDARDIZATION ORGANIZATIONS

International Standardization Organizations develop worldwide applicable, market-driven standards, in a multi-stakeholder environment which ensures that a wide range of technical views are represented, including those relating to social and economic interests. While not subjected to a specific jurisdiction, International Standards have an important contribution to facilitating international trade. This contribution has been recognized by the World Trade Organization (WTO) and the organizations cited below follow the Code of Good Practice for the Preparation, Adoption and Application of Standards of the WTO Agreement on Technical Barriers to Trade. International Standards are based in the Global Relevance principle, the standards are useful through all the world.





International Standardization Organization	ISO is an independent, non-governmental international organization with a membership of 163 national standards bodies. ISO develops standards mainly in fields not related to electrotechnology nor telecommunications.
International	IEC is a not-for-profit, non-governmental organization with a membership
Electrotechnical	of 84 national standards bodies. IEC develops standards in fields related to
Commission	electrotechnology.

Table 2. International Standardization Organizations

3.4 STANDARDIZATION DOCUMENTS

The formal definition of a Standard is a "document, established by consensus and approved by a recognized body that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context". These include requirements and/or recommendations in relation to products, systems, processes or services:

- European Standards are documents that have been ratified by one of the three European Standardization Organizations, CEN, CENELEC or ETSI; recognized as competent in the area of voluntary technical standardization as for the EU Regulation 1025/2012. As mentioned, the principle is one standard for all Europe. Their application is voluntary, but the adoption at national level as standard is mandatory.
- International Standards are documents that have been ratified by one of the two International Standardization Organizations, ISO or IEC. Their application is voluntary, and the adoption at national level is also voluntary.



All the standards, independently of their origin (national, european or international) are developed under the basis of consensus and approved by the members of the organization according to strict, defined procedures and strict drafting timeframes. Other types of documents are Technical Specifications (TS), Technical Reports (TR) and Workshop Agreements (WA), which have lower level of consensus and a faster drafting timeframe.

Туре	International code	Eurepean code	National code	Main characteristics
Standard	ISO IEC	EN	UNE, NF, BS, DIN, etc. When adopting: UNE-EN, NF-EN, UNE- ISO, NF-ISO, etc.	 Elaboration: 3 years 2 steps of member approval European: compulsory national adoption Revision: every 5 years
Technical Specification	ISO/TS IEC/TS	CEN/TS CLC/TS	When adopting: UNE-CEN/TS, NF-CEN/TS, UNE-ISO/TS, NF-ISO/TS, etc.	 Elaboration: 21 months 1 step of member approval or internal approval in TC European: optional national adoption Revision: at 3 years (upgrading to EN or deletion)
Technical Report	ISO/TR IEC/TR	CEN/TR CLC/TR	When adopting: UNE-CEN/TR, NF-CEN/TR, UNE-ISO/TR, NF-ISO/TR, etc.	 Elaboration: free timeframe Internal approval in TC European: optional national adoption No revision required
Workshop Agreement	IWA	CWA	Variable	 Elaboration: free timeframe (usually few months) Internal approval in the Workshop European: optional national adoption Revision: at 3 years (upgrading to EN or deletion)

A summary of the characteristics of the different standardization documents can be found in Table 3.

 Table 3. Characteristics of the different standardization documents





There is also agreements established between European and International Organizations in order to avoid duplication of efforts and promote global relevance of standards, which allows to adopt or develop in parallel each other's standards with the same content and code. National standards could also be proposed as a base for new European or International standards. The following Figure 1 shows the possible tracks of the standards.

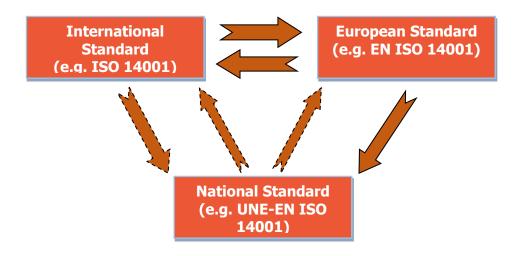


Figure 1. Possible tracks of standards adoption

Therefore, the code of any standard is the combination of the above mentioned issues, and could be explained as shown in Figure 2.

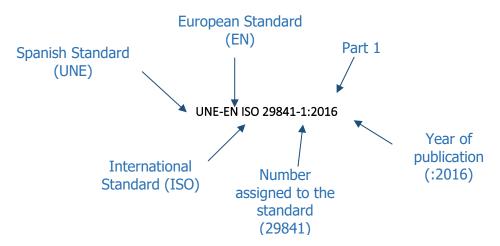


Figure 2. Example of identification of elements in the code of a standard





4. METHODOLOGY USED TO PREPARE THE REPORT

This document presents the standardization activity found relevant for FORESEE project. In order to structure the search, two kind of searches have been made: key-words and International Classification of Standards (ICS).

4.1. KEYWORDS

The first search has been made looking for key-words in the title and scope of the documents. In Table 4 the list of concepts prepared by UNE to act a starting point for the identification of standardization areas can be found in Table 4.

Key-word
Road infrastructure
Critical infrastructure, emergency systems, security,
safety engineering
Transport & Mobility
Risks assessment, modelling and impact reduction
Construction engineering, Municipal and structural
engineering
Multi-modal and infrastructure
Resilience
Transport infrastructure
Extreme events
Pavements
Landslides
Climate change adaptation (CCA), vulnerability
assessment, mitigation, etc
Others

Table 4. Non-Exhaustive List of key-words acting as starting point for the identification of standardization areas





4.2. INTERNATIONAL CLASSIFICATION FOR STANDARDS (ICS)

The second search has been made looking for documents with defined ICS (International Classification for Standards) which is "intended to serve as a structure for catalogues of international, regional and national standards and other normative documents, and as a basis for standing-order systems for international, regional and national standards. It may also be used for classifying standards and normative documents in databases, libraries, etc."

Therefore, the relation between the ICS and the respective keywords has helped on the searching of the standards that could be references for the overall scope of the project and are within the scope of deliverable D1.16.

The ICS is a hierarchical classification which consists of three levels. Level 1 covers 40 fields of activity in standardization, e.g. medical equipment, IT applications in health care technology, agriculture, metallurgy. Each field has a two-digit notation:

01 GENERALITIES. TERMINOLOGY. STANDARDIZATION. DOCUMENTATION

The fields are subdivided into 392 groups (level 2). The notation of a group consists of the field notation and a three-digit group number, separated by a point, e.g.

01.040 Vocabularies

144 of the 392 groups are further divided into 909 sub-groups (level 3). The notation of a sub-group consists of the group notation and a two-digit number, separated by a point, e.g.

01.040.35 Information technologies

The searching of ICS is based in the relevant key-words given in Table 5.

ICS	Description
01.040.13	Environmental. Health protection. Safety (vocabularies)





eneral
ndustry me and Building Electronic Systems
eering
Ζ
ction. Underground works





ICS	Description
93.080.30	Road equipment and installations
93.100	Construction of railways

Table 5. Non-Exhaustive list of ICS acting as starting point for the identification of standardization areas





5. LIST OF RELEVANT STANDARDS AND STANDARDARDS UNDER DEVELOPMENT

5.1. TECHNICAL COMMITTEES IDENTIFICATION

Subsequent to the application of the previous methodology explained, a list of relevant standards has been obtained. These standards represent those relevant to the Project in general and those that could be consulted, as a support documents, throughout the lifetime of the project. In order to present the list in a coherent and understandable way, the list of relevant standards has been grouped by the responsible Technical Committee.

Table 6 shows the list of identified Technical Committees (European and International).

International TC	Title
ISO/TC 59/SC 2	Buildings and civil engineering works. Terminology and harmonization of languages
ISO/TC 59/SC 13	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)
ISO/TC 85/SC 2	Radiological protection
ISO/TC 98/SC 1	Bases for design of structures. Terminology and symbols
ISO/TC 98/SC 2	Bases for design of structures. Reliability of structures
ISO/TC 98/SC 3	Bases for design of structures. Loads, forces and other actions
ISO/TC 204	Intelligent transport systems
ISO/TC 207	Environmental management
ISO/TC 207/SC 7	Environmental management. Greenhouse gas management and related activities
ISO/TC 251	Asset management
ISO/TC 262	Risk management
ISO/TC 292	Security and resilience
IEC TC 9	Electrical equipment and systems for railways
European TC	Title
CEN/TC 168	Chains, ropes, webbing, slings and accessories – Safety
CEN/TC 226	Road equipment
CEN/TC 227	Road material
CEN/ TC 250	Structural Eurocodes
CEN/ TC 250/SC 1	Eurocode 1: Actions on structures
CEN/TC 250/SC 2	Eurocode 2: Design of concrete structures
CEN /TC 250/SC 3	Eurocode 3 - Design of steel structures
CEN/TC 250/SC 4	Eurocode 4: Design of composite steel and concrete structures
CEN/TC 250/SC 8	Eurocode 8: Earthquake resistance design of structures
CEN/TC 256	Railway aplications





CEN/TC 262	Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys
CEN/TC 278	Intelligent transport systems
CEN/TC 350/WG 6	Sustainability of construction works. Civil Engineering works
CEN/TC 391	Societal and Citizen Security
CEN/TC 459/SC 1	Test methods for steel (other than chemical analysis)
CEN/TC 459/SC6	Wire rod and wires
CEN/TC 459/SC 12	General issues
CEN/TC 442	Building Information Modelling (BIM)
CLC/SC 9XA	Electrical and electronic applications for railways. Communication,
	signalling and processing systems

Table 6. List of ICS acting as starting point for the identification of standardization areas

5.2. IDENTIFIED STANDARDS SORTED BY TECHNICAL COMMITTEE

This subchapter will detail current European (CEN/CENELEC) and International Standards (ISO and IEC) that can be of interest to the Project WPs, either as active tools in their developments or as elements of consultation that may be useful throughout the lifetime of the project.

Specific Standards are considered as Vienna Agreement: Standard elaborated in collaboration between ISO and CEN. In addition, the classification also highligts wheter the Standard has been modified through the publication of a corrigendum or amendment Cor/Amd.

ISO/TC 59/SC 2 BUILDINGS AND CIVIL ENGINEERING WORKS. TERMINOLOGY AND HARMONIZATION OF LANGUAGES

Scope:

Standardization in the field of buildings and civil engineering works, of:

- General terminology;
- Organization of information in the processes of design, manufacture and construction;
- General geometric requirements for buildings, building elements and components including modular coordination and its basic principles, general rules for joints, tolerances and fits, performance and test standards for sealants;





- General rules for other performance requirements, including functional and user requirements related to service life, sustainability, accessibility and usability;
- General rules and guidelines for addressing the economic, environmental and social impacts and aspects related to sustainable development;
- Geometric and performance requirements for components that are not in the scope of separate ISO technical committees;
- Procurement processes, methods and procedures.

Published documents:

Reference	Title
ISO 7078:1985 ed.1- id.13650	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes
ISO 6707-1:2017 ed.5- id.72244	Buildings and civil engineering works Vocabulary Part 1: General terms
ISO 6707-2:2017 ed.3- id.70040	Buildings and civil engineering works Vocabulary Part 2: Contract and communication terms
ISO 6707-3:2017 ed.1- id.66633	Buildings and civil engineering works Vocabulary Part 3: Sustainability terms
ISO 1803:1997 ed.2- id.6440	Building construction Tolerances Expression of dimensional accuracy Principles and terminology
ISO 1791:1983 ed.2- id.6423	Building construction Modular co-ordination Vocabulary

Under development:

Reference	Title
ISO/WD 7078 ed.2- id.75610	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes
ISO/WD 6707-1 ed.6- id.77077	Buildings and civil engineering works Vocabulary Part 1: General terms





ISO/TC 59/SC 13 Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)

Scope:

Standardization in the field of buildings and civil engineering works, of:

- General terminology;
- Organization of information in the processes of design, manufacture and construction;
- General geometric requirements for buildings, building elements and components including modular coordination and its basic principles, general rules for joints, tolerances and fits, performance and test standards for sealants;
- General rules for other performance requirements, including functional and user requirements related to service life, sustainability, accessibility and usability;
- General rules and guidelines for addressing the economic, environmental and social impacts and aspects related to sustainable development;
- Geometric and performance requirements for components that are not in the scope of separate ISO technical committees;
- Procurement processes, methods and procedures.

Published documents:

Reference	Title
ISO 29481-1:2016 ed.2- id.60553 Vienna Agreement	Building information models Information delivery manual Part 1: Methodology and format
ISO 29481-2:2012 ed.1- id.55691 Vienna Agreement	Building information models Information delivery manual Part 2: Interaction framework





Reference	Title
ISO 22263:2008 ed.1- id.40835	Organization of information about construction works Framework for management of project information
ISO 19650-1:2018 ed.1- id.68078 Vienna Agreement	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) Information management using building information modelling Part 1: Concepts and principles
ISO 19650-2:2018 ed.1- id.68080 Vienna Agreement	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) Information management using building information modelling Part 2: Delivery phase of the assets
ISO 16757-1:2015 ed.1- id.57613	Data structures for electronic product catalogues for building services Part 1: Concepts, architecture and model
ISO 16757-2:2016 ed.1- id.62080	Data structures for electronic product catalogues for building services Part 2: Geometry
ISO 16739-1:2018 ed.1- id.70303	Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries Part 1: Data schema
ISO 16354:2013 ed.1- id.56434	Guidelines for knowledge libraries and object libraries
ISO/TS 12911:2012 ed.1- id.52155	Framework for building information modelling (BIM) guidance
ISO 12006-2:2015 ed.2- id.61753	Building construction Organization of information about construction works Part 2: Framework for classification
ISO 12006-3:2007 ed.1- id.38706 Vienna Agreement	Building construction Organization of information about construction works Part 3: Framework for object-oriented information

Under development:

Reference	Title
ISO/DIS 21597-1 ed.1- id.74389 Vienna Agreement	Information container for data drop Exchange specification Part 1: Container





Reference	Title
ISO/DIS 21597-2 ed.1- id.74390 Vienna Agreement	Information container for data drop Exchange specification Part 2: Dynamic semantics
ISO/DIS 23387 ed.1- id.75403 Vienna Agreement	Building Information Modelling (BIM) Data templates for construction objects used in the life cycle of any built asset Concepts and principles
ISO/DIS 23386 ed.1- id.75401 Vienna Agreement	Building information modelling and other digital processes used in construction Methodology to describe, author and maintain properties in interconnected dictionaries
ISO/AWI TR 23262 ed.1- id.75105	GIS (Geospatial) / BIM interoperability
ISO/CD 19650-3 ed.1- id.75109 Vienna Agreement	Organization of information about construction works Information management using building information modelling Part 3: Operational phase of assets
ISO/CD 19650-5 ed.1- id.74206 Vienna Agreement	Organization of information about construction works Information management using building information modelling Part 5: Specification for security-minded building information modelling, digital built environments and smart asset management
ISO/NP 16739-2 ed.1- id.70304	Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries Part 2: Data schema using XML schema definitions
ISO/WD 12006-3 ed.2- id.74932 Vienna Agreement	Building construction Organization of information about construction works Part 3: Framework for object-oriented information

ISO/TC 85/SC 2 Radiological protection

Reference	Title
ISO 16647:2018	Nuclear facilities — Criteria for design and operation of confinement systems for nuclear





ISO/TC 98/SC 1 Bases for design of structures. Terminology and symbols

Scope:

Standardization of the bases for design of structures irrespective of the material of construction including especially terminology and symbols, load, forces and other actions and limitations of deformations. Consideration and coordination of basic reliability requirements concerning the structures as a whole, including consideration of structures made of particular materials (steel, stone, concrete, wood, etc.) as far as is necessary for the preparation of a common approach to reliability in liaison with the relevant technical committees.

Published documents:

Reference	Title
ISO 8930:1987 ed.1- id.16459	General principles on reliability for structures List of equivalent terms
ISO 3898:2013 ed.4- id.55262	Bases for design of structures Names and symbols of physical quantities and generic quantities

Under development:

Reference	Title	Action
ISO/AWI 8930 ed.2- id.74452	Bases for design of structures- Vocabulary	





ISO/TC 98/SC 2 Bases for design of structures. Reliability of structures

Scope:

Standardization of the bases for design of structures irrespective of the material of construction including especially terminology and symbols, load, forces and other actions and limitations of deformations. Consideration and coordination of basic reliability requirements concerning the structures as a whole, including consideration of structures made of particular materials (steel, stone, concrete, wood, etc.) as far as is necessary for the preparation of a common approach to reliability in liaison with the relevant technical committees.

Published documents:

Reference	Title
ISO 22111:2007 ed.1- id.36123	Bases for design of structures General requirements
ISO 13824:2009 ed.1- id.44140	Bases for design of structures General principles on risk assessment of systems involving structures
ISO 13823:2008 ed.1- id.39021	General principles on the design of structures for durability
ISO 13822:2010 ed.2- id.46556	Bases for design of structures Assessment of existing structures
ISO 12491:1997 ed.1- id.2644	Statistical methods for quality control of building materials and components
ISO 10137:2007 ed.2- id.37070	Bases for design of structures - Serviceability of buildings and walkways against vibrations
ISO 4356:1977 ed.1- id.10233	Bases for the design of structures Deformations of buildings at the serviceability limit states
ISO 2394:2015 ed.4- id.58036	General principles on reliability for structures



Under development:

Reference	Title
ISO/CD 13824 ed.2- id.71005	Bases for design of structures General principles on risk assessment of systems involving structures
ISO/AWI 23618 ed.1- id.76423	Design Principles of Seismically Isolated structures
ISO/DIS 22111 ed.2- id.68335	Bases for design of structures General requirements
ISO/NP 4356 ed.2- id.70805	Bases for the design of structures Deformations of buildings at the serviceability limit states

ISO/TC 98/SC 3 Bases for design of structures. Loads, forces and other actions

Scope:

Standardization of the bases for design of structures irrespective of the material of construction including especially terminology and symbols, load, forces and other actions and limitations of deformations. Consideration and coordination of basic reliability requirements concerning the structures as a whole, including consideration of structures made of particular materials (steel, stone, concrete, wood, etc.) as far as is necessary for the preparation of a common approach to reliability in liaison with the relevant technical committees.

Published documents:

Reference	Title
ISO 23469:2005 ed.1- id.36873	Bases for design of structures Seismic actions for designing geotechnical works





Reference	Title
ISO 21650:2007 ed.1- id.35955	Actions from waves and currents on coastal structures
ISO 13033:2013 ed.1- id.52441	Bases for design of structures Loads, forces and other actions Seismic actions on non-structural components for building applications
ISO/TR 12930:2014 ed.1- id.52209	Seismic design examples based on ISO 23469
ISO 12494:2017 ed.2- id.72443	Atmospheric icing of structures
ISO 11697:1995 ed.1- id.19623	Bases for design of structures Loads due to bulk materials
ISO 9194:1987 ed.1- id.16819	Bases for design of structures Actions due to the self-weight of structures, non- structural elements and stored materials Density
ISO 4355:2013 ed.3- id.56059	Bases for design of structures Determination of snow loads on roofs
ISO 4354:2009 ed.2- id.38882	Wind actions on structures
ISO 3010:2017 ed.3- id.63217	Bases for design of structures Seismic actions on structures
ISO 2633:1974 ed.1- id.7623	Determination of imposed floor loads in production buildings and warehouses
ISO 2103:1986 ed.1- id.6892	Loads due to use and occupancy in residential and public buildings

Under development:

Reference	Title
ISO/DIS 10252 ed.1- id.68154	Bases for design of structures Accidental actions





ISO/TC 204 Intelligent transport systems

Scope

Standardization of information, communication and control systems in the field of urban and rural surface transportation, including intermodal and multimodal aspects thereof, traveller information, traffic management, public transport, commercial transport, emergency services and commercial services in the intelligent transport systems (ITS) field.

Excluded:

• in-vehicle transport information and control systems (ISO / TC 22).

Note:

ISO / TC 204 is responsible for the overall system aspects and infrastructure aspects of intelligent transport systems (ITS), as well as the coordination of the overall ISO work programme in this field including the schedule for standards development, taking into account the work of existing international standardization bodies.





Published documents:

Reference	Title
ISO/TS 29284:2012 ed.1- id.45382	Intelligent transport systems Event-based probe vehicle data
ISO 29283:2011 ed.1- id.45381	ITS CALM Mobile Wireless Broadband applications using Communications in accordance with IEEE 802.20
ISO 29282:2011 ed.1- id.45380	Intelligent transport systems Communications access for land mobiles (CALM) Satellite networks
ISO 29281-1:2018 ed.2- id.70075	Intelligent transport systems Localized communications Part 1: Fast networking & transport layer protocol (FNTP)
ISO 29281-2:2013 ed.1- id.61568 1 Cor./Amd.	Intelligent transport systems Communication access for land mobiles (CALM) Non-IP networking Part 2: Legacy system support
ISO 29281- 2:2013/Amd 1:2014 ed.1- id.65610 1 Cor./Amd.	Intelligent transport systems Communication access for land mobiles (CALM) Non-IP networking Part 2: Legacy system support Amendment 1
ISO/TR 28682:2008 ed.1- id.44878	Intelligent transport systems Joint APEC-ISO study of progress to develop and deploy ITS standards
ISO/TR 26999:2012 ed.1- id.62218	Intelligent transport systems Systems architecture Use of process-oriented methodology in ITS International Standards and other deliverables
ISO 26684:2015 ed.1- id.43653	Intelligent transport systems (ITS) Cooperative intersection signal information and violation warning systems (CIWS) Performance requirements and test procedures
ISO 26683-1:2013 ed.1- id.61000	Intelligent transport systems Freight land conveyance content identification and communication Part 1: Context, architecture and referenced standards
ISO 26683-2:2013 ed.1- id.57600	Intelligent transport systems Freight land conveyance content identification and communication Part 2: Application interface profiles
ISO/TS 25114:2010 ed.1- id.42754	Intelligent transport systems Probe data reporting management (PDRM)
ISO 25113:2010 ed.1- id.42753	Intelligent transport systems Communications access for land mobiles (CALM) Mobile wireless broadband using HC-SDMA





Reference	Title
ISO 25112:2010 ed.1- id.42752	Intelligent transport systems Communications access for land mobiles (CALM) Mobile wireless broadband using IEEE 802.16
ISO 25111:2009 ed.1- id.42751	Intelligent transport systems Communications access for land mobiles (CALM) General requirements for using public networks
ISO 25110:2017 ed.1- id.72360 Vienna Agreement	Electronic fee collection Interface definition for on-board account using integrated circuit card (ICC)
ISO/TR 25104:2008 ed.1- id.42745	Intelligent transport systems System architecture, taxonomy, terminology and data modelling Training requirements for ITS architecture
ISO/TR 25102:2008 ed.1- id.42743	Intelligent transport systems System architecture 'Use Case' pro-forma template
ISO/TR 25100:2012 ed.2- id.59699	Intelligent transport systems Systems architecture Harmonization of ITS data concepts
ISO 24978:2009 ed.1- id.42727 Vienna Agreement	Intelligent transport systems ITS Safety and emergency messages using any available wireless media Data registry procedures
ISO 24535:2007 ed.1- id.39589 1 Cor./Amd.	Intelligent transport systems Automatic vehicle identification Basic electronic registration identification (Basic ERI)
ISO 24534-1:2010 ed.1- id.51849 Vienna Agreement	Automatic vehicle and equipment identification Electronic registration identification (ERI) for vehicles Part 1: Architecture
ISO 24534-2:2010 ed.1- id.51850 Vienna Agreement	Automatic vehicle and equipment identification Electronic registration identification (ERI) for vehicles Part 2: Operational requirements
ISO 24534-3:2016 ed.2- id.59306 Vienna Agreement	Intelligent transport systems Automatic vehicle and equipment identification Electronic registration identification (ERI) for vehicles Part 3: Vehicle data
ISO 24534-4:2010 ed.1- id.51852 Vienna Agreement 1 Cor./Amd.	Automatic vehicle and equipment identification Electronic registration identification (ERI) for vehicles Part 4: Secure communications using asymmetrical techniques





Reference	Title
ISO 24534-5:2011 ed.1- id.54570 1 Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification Electronic Registration Identification (ERI) for vehicles Part 5: Secure communications using symmetrical techniques
ISO/TS 24533:2012 ed.1- id.46422	Intelligent transport systems Electronic information exchange to facilitate the movement of freight and its intermodal transfer Road transport information exchange methodology
ISO/TR 24532:2006 ed.1- id.37504	Intelligent transport systems Systems architecture, taxonomy and terminology Using CORBA (Common Object Request Broker Architecture) in ITS standards, data registries and data dictionaries
ISO 24531:2013 ed.2- id.57392	Intelligent transport systems System architecture, taxonomy and terminology Using XML in ITS standards, data registries and data dictionaries
ISO/TS 24530-1:2006 ed.1- id.37268 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) Part 1: Introduction, common data types and tpegML
ISO/TS 24530-2:2006 ed.1- id.37500 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) Part 2: tpeg-locML
ISO/TS 24530-3:2006 ed.1- id.37501 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) Part 3: tpeg-rtmML
ISO/TS 24530-4:2006 ed.1- id.37502 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) Part 4: tpeg-ptiML
ISO/TR 24529:2008 ed.1- id.39591	Intelligent transport systems Systems architecture Use of unified modelling language (UML) in ITS International Standards and deliverables
ISO 24103:2009 ed.1- id.45806	Intelligent transport systems Communications access for land mobiles (CALM) Media adapted interface layer (MAIL)
ISO 24102-1:2018 ed.2- id.73264	Intelligent transport systems ITS station management Part 1: Local management
ISO 24102-2:2018 ed.2- id.73265	Intelligent transport systems ITS station management Part 2: Remote management of ITS-SCUs
ISO 24102-3:2018 ed.2- id.73266	Intelligent transport systems ITS station management Part 3: Service access points





Reference	Title
ISO 24102-4:2018 ed.2- id.73267	Intelligent transport systems ITS station management Part 4: Station-internal management communications
ISO 24102- 5:2013/Amd 1:2017 ed.1- id.65607 1 Cor./Amd.	Intelligent transport systems Communications access for land mobiles (CALM) ITS station management Part 5: Fast service advertisement protocol (FSAP) Amendment 1
ISO 24102-6:2018 ed.1- id.62292	Intelligent transport systems Communications access for land mobiles (CALM) ITS station management Part 6: Path and flow management
ISO 24101-1:2008 ed.1- id.50128	Intelligent transport systems Communications access for land mobiles (CALM) Application management Part 1: General requirements
ISO 24101-2:2010 ed.1- id.50129	Intelligent transport systems Communications access for land mobiles (CALM) Application management Part 2: Conformance test
ISO 24100:2010 ed.1- id.42017	Intelligent transport systems Basic principles for personal data protection in probe vehicle information services
ISO 24099:2011 ed.1- id.42016	Navigation data delivery structures and protocols
ISO/TR 24098:2007 ed.1- id.42015	Intelligent transport systems System architecture, taxonomy and terminology Procedures for developing ITS deployment plans utilizing ITS system architecture
ISO 24097-1:2017 ed.2- id.69117	Intelligent transport systems Using web services (machine-machine delivery) for ITS service delivery Part 1: Realization of interoperable web services
ISO/TR 24097-2:2015 ed.1- id.65673	Intelligent transport systems Using web services (machine-machine delivery) for ITS service delivery Part 2: Elaboration of interoperable web services' interfaces
ISO 24014-1:2015 ed.2- id.61545 Vienna Agreement	Public transport Interoperable fare management system Part 1: Architecture
ISO/TR 24014-2:2013 ed.1- id.50127 Vienna Agreement	Public transport Interoperable fare management system Part 2: Business practices
ISO/TR 24014-3:2013 ed.1- id.62354 Vienna Agreement	Public transport Interoperable fare management system Part 3: Complementary concepts to Part 1 for multi-application media
ISO 22951:2009 ed.1- id.46009	Data dictionary and message sets for pre-emption and prioritization signal systems for emergency and public transport vehicles (PRESTO)





Reference	Title
ISO 22840:2010 ed.1- id.36521	Intelligent transport systems Devices to aid reverse manoeuvres Extended-range backing aid systems (ERBA)
ISO 22839:2013 ed.1- id.45339	Intelligent transport systems Forward vehicle collision mitigation systems Operation, performance, and verification requirements
ISO 22837:2009 ed.1- id.45418	Vehicle probe data for wide area communications
ISO 22418:2018 ed.1- id.73150	Intelligent transport systems Fast service announcement protocol (FSAP)
ISO 22178:2009 ed.1- id.40752	Intelligent transport systems Low speed following (LSF) systems Performance requirements and test procedures
ISO/TS 21719-1:2018 ed.1- id.71476 Vienna Agreement	Electronic fee collection Personalization of on-board equipment (OBE) Part 1: Framework
ISO/TS 21719-2:2018 ed.1- id.71477 Vienna Agreement	Electronic fee collection Personalization of on-board equipment (OBE) Part 2: Using dedicated short-range communication
ISO/TR 21718:2017 ed.1- id.71475	Intelligent transport systems Spatio-temporal data dictionary for cooperative ITS and automated driving systems
ISO 21717:2018 ed.1- id.71471	Intelligent transport systems Partially Automated In-Lane Driving Systems (PADS) Performance requirements and test procedures
ISO/TR 21707:2008 ed.1- id.34668	Intelligent transport systems Integrated transport information, management and control Data quality in ITS systems
ISO/TS 21219-1:2016 ed.1- id.63110	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 1: Introduction, numbering and versions (TPEG2-INV)
ISO/TS 21219-2:2014 ed.1- id.57459	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 2: UML modelling rules
ISO/TS 21219-3:2015 ed.1- id.57460	Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 3: UML to binary conversion rules
ISO/TS 21219-4:2015 ed.1- id.59713	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 4: UML to XML conversion rules





Reference	Title
ISO/TS 21219-5:2015 ed.1- id.57461	Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 5: Service framework (TPEG2-SFW)
ISO/TS 21219-6:2015 ed.1- id.57462	Intelligent transport systems - Traffic and travel information(TTI) via transport protocol experts group, generation 2 (TPEG2) Part 6: Message management container (TPEG2-MMC)
ISO/TS 21219-7:2017 ed.1- id.63111	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 7: Location referencing container (TPEG2-LRC)
ISO/TS 21219-9:2016 ed.1- id.63112	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 9: Service and network information (TPEG2-SNI)
ISO/TS 21219-10:2016 ed.1- id.63113	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 10: Conditional access information (TPEG2-CAI)
ISO/TS 21219-14:2016 ed.1- id.63115	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 14: Parking information application (TPEG2-PKI)
ISO/TS 21219-15:2016 ed.1- id.63116	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 15: Traffic event compact (TPEG2-TEC)
ISO/TS 21219-16:2016 ed.1- id.63117	Intelligent transport systems Traffic and travel information via transport protocol exports group, generation 2 (TPEG2) Part 16: Fuel price information and availability (TPEG2-FPI)
ISO/TS 21219-18:2015 ed.1- id.57463	Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 18: Traffic flow and prediction application (TPEG2-TFP)
ISO/TS 21219-19:2016 ed.1- id.63118	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 19: Weather information (TPEG2-WEA)
ISO/TS 21219-21:2018 ed.1- id.63121	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 2 (TPEG2) Part 21: Geographic location referencing (TPEG-GLR)





Reference	Title
ISO/TS 21219-22:2017 ed.1- id.63122	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 22: OpenLR location referencing (TPEG2-OLR)
ISO/TS 21219-23:2016 ed.1- id.64588	Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 23: Roads and multimodal routes (TPEG2-RMR)
ISO/TS 21219-24:2017 ed.1- id.69692	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 24: Light encryption (TPEG2-LTE)
ISO/TS 21219-25:2017 ed.1- id.69693	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 25: Electromobility charging infrastructure (TPEG2-EMI)
ISO/TS 21219-26:2018 ed.1- id.73765	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 2 (TPEG2) Part 26: Vigilance location information (TPEG2-VLI)
ISO 21218:2018 ed.3- id.73263	Intelligent transport systems Hybrid communications Access technology support
ISO 21217:2014 ed.2- id.61570	Intelligent transport systems Communications access for land mobiles (CALM) Architecture
ISO 21216:2012 ed.2- id.59703	Intelligent transport systems Communication access for land mobiles (CALM) Millimetre wave air interface
ISO 21215:2018 ed.2- id.70074	Intelligent transport systems Localized communications ITS-M5
ISO 21214:2015 ed.2- id.51523	Intelligent transport systems Communications access for land mobiles (CALM) Infra-red systems
ISO 21213:2008 ed.1- id.45377	Intelligent transport systems Communications access for land mobiles (CALM) 3G Cellular systems
ISO 21212:2008 ed.1- id.45378	Intelligent transport systems Communications access for land mobiles (CALM) 2G Cellular systems
ISO 21210:2012 ed.1- id.46549 1 Cor./Amd.	Intelligent transport systems Communications access for land mobiles (CALM) IPv6 Networking





Reference	Title
ISO 21210:2012/Amd 1:2017 ed.1- id.65691 1 Cor./Amd.	Intelligent transport systems Communications access for land mobiles (CALM) IPv6 Networking Amendment 1
ISO/TR 21190:2018 ed.1- id.70061	Electronic fee collection Investigation of charging policies and technologies for future standardization
ISO/TR 20545:2017 ed.1- id.68300	Intelligent transport systems Vehicle/roadway warning and control systems Report on standardisation for vehicle automated driving systems (RoVAS)/Beyond driver assistance systems
ISO/TR 20529-1:2017 ed.1- id.73257	Intelligent transport systems Framework for green ITS (G-ITS) standards Part 1: General information and use case definitions
ISO/TR 20526:2017 ed.1- id.68262	Account-based ticketing state of the art report
ISO/TS 20452:2007 ed.1- id.39447	Requirements and Logical Data Model for a Physical Storage Format (PSF) and an Application Program Interface (API) and Logical Data Organization for PSF used in Intelligent Transport Systems (ITS) Database Technology
ISO 20035:2019 ed.1- id.66879	Intelligent transport systems Cooperative adaptive cruise control systems (CACC) Performance requirements and test procedures
ISO/TS 20026:2017 ed.1- id.73360	Intelligent transport systems Cooperative ITS Test architecture
ISO/TR 19639:2015 ed.1- id.65600	Electronic fee collection Investigation of EFC standards for common payment schemes for multi-modal transport services
ISO 19638:2018 ed.1- id.65599	Intelligent transport systems Road boundary departure prevention systems (RBDPS) Performance requirements and test procedures
ISO/TS 19321:2015 ed.1- id.64606 Vienna Agreement	Intelligent transport systems Cooperative ITS Dictionary of in-vehicle information (IVI) data structures
ISO/TS 19299:2015 ed.1- id.64605 Vienna Agreement	Electronic fee collection Security framework
ISO 19237:2017 ed.1- id.64111	Intelligent transport systems Pedestrian detection and collision mitigation systems (PDCMS) Performance requirements and test procedures





Reference	Title
ISO/TS 19091:2017 ed.1- id.69897 Vienna Agreement	Intelligent transport systems Cooperative ITS Using V2I and I2V communications for applications related to signalized intersections
ISO/TR 19083-1:2016 ed.1- id.71510	Intelligent transport systems Emergency evacuation and disaster response and recovery Part 1: Framework and concept of operation
ISO 19080:2016 ed.1- id.63884	Intelligent transport systems Communications access for land mobiles (CALM) CoAP facility
ISO 19079:2016 ed.1- id.63883	Intelligent transport systems Communications access for land mobiles (CALM) 6LoWPAN networking
ISO 18750:2018 ed.1- id.69433 Vienna Agreement	Intelligent transport systems Co-operative ITS Local dynamic map
ISO 18682:2016 ed.1- id.63250	Intelligent transport systems External hazard detection and notification systems Basic requirements
ISO 18495-1:2016 ed.1- id.62623	Intelligent transport systems Commercial freight Automotive visibility in the distribution supply chain Part 1: Architecture and data definitions
ISO/TR 18317:2017 ed.1- id.62124	Intelligent transport systems Pre-emption of ITS communication networks for disaster and emergency communication Use case scenarios
ISO/TS 18234-1:2013 ed.2- id.57458 Vienna Agreement	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 1: Introduction, numbering and versions (TPEG1-INV)
ISO/TS 18234-2:2013 ed.2- id.61596 Vienna Agreement	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 2: Syntax, semantics and framing structure (TPEG1-SSF)
ISO/TS 18234-3:2013 ed.2- id.59244 Vienna Agreement	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 3: Service and network information (TPEG1-SNI)
ISO/TS 18234-4:2006 ed.1- id.44064 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Expert Group (TPEG) data-streams Part 4: Road Traffic Message (RTM) application
ISO/TS 18234-5:2006 ed.1- id.37265 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Expert Group (TPEG) data-streams Part 5: Public Transport Information (PTI) application





Reference	Title
ISO/TS 18234-6:2006 ed.1- id.37266 Vienna Agreement	Traffic and Travel Information (TTI) - TTI via Transport Protocol Expert Group (TPEG) data-streams Part 6: Location referencing applications
ISO/TS 18234-7:2013 ed.1- id.44611 Vienna Agreement	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 7: Parking information (TPEG1-PKI)
ISO/TS 18234-8:2012 ed.1- id.44612	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 8: Congestion and Travel Time application (TPEG1-CTT)
ISO/TS 18234-9:2013 ed.1- id.44613 Vienna Agreement	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 9: Traffic event compact (TPEG1-TEC)
ISO/TS 18234-10:2013 ed.1- id.44614 Vienna Agreement	Intelligent transport systems Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format Part 10: Conditional access information (TPEG1-CAI)
ISO/TS 18234-11:2013 ed.1- id.59715 Vienna Agreement	Intelligent transport systems Traffic and Travel Information (TTI) via transport protocol experts group, generation 1 (TPEG1) binary data format Part 11: Location Referencing Container (TPEG1-LRC)
ISO 17687:2007 ed.1- id.33155	Transport Information and Control Systems (TICS) General fleet management and commercial freight operations Data dictionary and message sets for electronic identification and monitoring of hazardous materials/dangerous goods transportation
ISO 17575-1:2016 ed.1- id.64161 Vienna Agreement	Electronic fee collection Application interface definition for autonomous systems Part 1: Charging
ISO 17575-2:2016 ed.1- id.64162 Vienna Agreement	Electronic fee collection Application interface definition for autonomous systems Part 2: Communication and connection to the lower layers
ISO 17575-3:2016 ed.1- id.64163 Vienna Agreement	Electronic fee collection Application interface definition for autonomous systems Part 3: Context data
ISO/TS 17574:2017 ed.3- id.70051 Vienna Agreement	Electronic fee collection Guidelines for security protection profiles
ISO 17573:2010 ed.1- id.45963	Electronic fee collection Systems architecture for vehicle-related tolling





Reference	Title
ISO 17572-1:2015 ed.2- id.63400	Intelligent transport systems (ITS) Location referencing for geographic databases Part 1: General requirements and conceptual model
ISO 17572-2:2018 ed.3- id.69468	Intelligent transport systems (ITS) Location referencing for geographic databases Part 2: Pre-coded location references (pre-coded profile)
ISO 17572-3:2015 ed.2- id.63402	Intelligent transport systems (ITS) Location referencing for geographic databases Part 3: Dynamic location references (dynamic profile)
ISO 17515-1:2015 ed.1- id.59929	Intelligent transport systems Communications access for land mobiles (CALM) Evolved universal terrestrial radio access network (E-UTRAN) Part 1: General usage
ISO/TR 17465-1:2014 ed.1- id.62889	Intelligent transport systems Cooperative ITS Part 1: Terms and definitions
ISO/TR 17465-2:2015 ed.1- id.62890	Intelligent transport systems Cooperative ITS Part 2: Guidelines for standards documents
ISO/TR 17465-3:2015 ed.1- id.63842	Intelligent transport systems Cooperative ITS Part 3: Release procedures for standards documents
ISO/TR 17452:2007 ed.1- id.38373	Intelligent transport systems Using UML for defining and documenting ITS/TICS interfaces
ISO/TS 17444-1:2017 ed.2- id.72358 Vienna Agreement	Electronic fee collection Charging performance Part 1: Metrics
ISO/TS 17444-2:2017 ed.2- id.72359 Vienna Agreement	Electronic fee collection Charging performance Part 2: Examination framework
ISO 17438-1:2016 ed.1- id.59742	Intelligent transport systems Indoor navigation for personal and vehicle ITS station - - Part 1: General information and use case definition
ISO/TS 17429:2017 ed.1- id.59727 Vienna Agreement	Intelligent transport systems Cooperative ITS ITS station facilities for the transfer of information between ITS stations
ISO 17427-1:2018 ed.1- id.66924 Vienna Agreement	Intelligent transport systems Cooperative ITS Part 1: Roles and responsibilities in the context of co-operative ITS architecture(s)
ISO/TR 17427-2:2015 ed.1- id.66947	Intelligent transport systems Cooperative ITS Part 2: Framework overview





Reference	Title
ISO/TR 17427-3:2015 ed.1- id.66955	Intelligent transport systems Cooperative ITS Part 3: Concept of operations (ConOps) for 'core' systems
ISO/TR 17427-4:2015 ed.1- id.66956	Intelligent transport systems Cooperative ITS Part 4: Minimum system requirements and behaviour for core systems
ISO/TR 17427-6:2015 ed.1- id.66958	Intelligent transport systems Cooperative ITS Part 6: 'Core system' risk assessment methodology
ISO/TR 17427-7:2015 ed.1- id.66959	Intelligent transport systems Cooperative ITS Part 7: Privacy aspects
ISO/TR 17427-8:2015 ed.1- id.66960	Intelligent transport systems Cooperative ITS Part 8: Liability aspects
ISO/TR 17427-9:2015 ed.1- id.66961	Intelligent transport systems Cooperative ITS Part 9: Compliance and enforcement aspects
ISO/TR 17427- 10:2015 ed.1- id.66962	Intelligent transport systems Cooperative ITS Part 10: Driver distraction and information display
ISO/TS 17426:2016 ed.1- id.59724 Vienna Agreement	Intelligent transport systems Cooperative systems Contextual speeds
ISO/TS 17425:2016 ed.1- id.59723 Vienna Agreement	Intelligent transport systems Cooperative systems Data exchange specification for in-vehicle presentation of external road and traffic related data
ISO/TR 17424:2015 ed.1- id.59722 Vienna Agreement	Intelligent transport systems Cooperative systems State of the art of Local Dynamic Maps concepts
ISO 17423:2018 ed.1- id.68267 Vienna Agreement	Intelligent transport systems Cooperative systems Application requirements and objectives
ISO 17419:2018 ed.1- id.70077 Vienna Agreement	Intelligent transport systems Cooperative systems Globally unique identification
ISO 17387:2008 ed.1- id.43654	Intelligent transport systems Lane change decision aid systems (LCDAS) Performance requirements and test procedures





Reference	Title
ISO 17386:2010 ed.2- id.51448	Transport information and control systems Manoeuvring Aids for Low Speed Operation (MALSO) Performance requirements and test procedures
ISO/TR 17384:2008 ed.1- id.50433	Intelligent transport systems Interactive centrally determined route guidance (CDRG) Air interface message set, contents and format
ISO 17361:2017 ed.2- id.72349	Intelligent transport systems Lane departure warning systems Performance requirements and test procedures
ISO 17267:2009 ed.1- id.44700	Intelligent transport systems Navigation systems Application programming interface (API)
ISO 17264:2009 ed.1- id.46227 Vienna Agreement 1 Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification Interfaces
ISO 17263:2012 ed.1- id.55496 Vienna Agreement 1 Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification System parameters
ISO 17263:2012/Cor 1:2013 ed.1- id.65602 1 Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification System parameters Technical Corrigendum 1
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ISO/TS 17187:2013 ed.1- id.59292	Intelligent transport systems Electronic information exchange to facilitate the movement of freight and its intermodal transfer Governance rules to sustain electronic information exchange methods





Reference	Title
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ISO/TR 17185-2:2015 ed.1- id.61547	Intelligent transport systems Public transport user information Part 2: Public transport data and interface standards catalogue and cross references
ISO/TR 17185-3:2015 ed.1- id.61548	Intelligent transport systems Public transport user information Part 3: Use cases for journey planning systems and their interoperation
ISO 16787:2017 ed.2- id.73768	Intelligent transport systems Assisted parking system (APS) Performance requirements and test procedures
ISO/TR 16786:2015 ed.1- id.57770	Intelligent transport systems The use of simulation models for evaluation of traffic management systems Input parameters and reporting template for simulation of traffic signal control systems
ISO/TS 16785:2014 ed.1- id.65675	Electronic Fee Collection (EFC) Interface definition between DSRC-OBE and external in-vehicle devices
ISO 16461:2018 ed.1- id.56791	Intelligent transport systems Criteria for privacy and integrity protection in probe vehicle information systems
ISO/TS 16460:2016 ed.1- id.71287	Intelligent transport systems Communications access for land mobiles (CALM) Communication protocol messages for global usage
ISO 16410-1:2017 ed.1- id.69780 Vienna Agreement	Electronic fee collection Evaluation of equipment for conformity to ISO 17575-3 Part 1: Test suite structure and test purposes
ISO 16410-2:2018 ed.1- id.70050 Vienna Agreement	Electronic fee collection Evaluation of equipment for conformity to ISO 17575-3 Part 2: Abstract test suite
ISO 16407-1:2017 ed.1- id.69779 Vienna Agreement	Electronic fee collection Evaluation of equipment for conformity to ISO 17575-1 Part 1: Test suite structure and test purposes
ISO 16407-2:2018 ed.1- id.70049 Vienna Agreement	Electronic fee collection Evaluation of equipment for conformity to ISO 17575-1 Part 2: Abstract test suite
ISO/TR 16401-1:2018 ed.1- id.70039 Vienna Agreement	Electronic fee collection Evaluation of equipment for conformity to ISO/TS 17575-2 - - Part 1: Test suite structure and test purposes





Reference	Title
ISO/TR 16401-2:2018 ed.1- id.70041 Vienna Agreement	Electronic fee collection Evaluation of equipment for conformity to ISO 17575-2 Part 2: Abstract test suite
ISO 15784-1:2008 ed.1- id.39586	Intelligent transport systems (ITS) Data exchange involving roadside modules communication Part 1: General principles and documentation framework of application profiles
ISO 15784-2:2015 ed.1- id.55233 1 Cor./Amd.	Intelligent transport systems (ITS) Data exchange involving roadside modules communication Part 2: Centre to field device communications using SNMP
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ISO 15638-1:2012 ed.1- id.59184	Intelligent transport systems Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) Part 1: Framework and architecture
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ISO 15638-3:2013 ed.1- id.59186	Intelligent transport systems Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) Part 3: Operating requirements, 'Approval Authority' procedures, and enforcement provisions for the providers of regulated services
ISO 15638-5:2013 ed.1- id.59188	Intelligent transport systems Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) Part 5: Generic vehicle information
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ISO 15638-7:2013 ed.1- id.59190	Intelligent transport systems Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) Part 7: Other applications
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Reference	Title
ISO/TS 15638-9:2013 ed.1- id.62714	Intelligent transport systems Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) Part 9: Remote electronic tachograph monitoring (RTM)
ISO 15638-10:2017 ed.1- id.62036	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 10: Emergency messaging system/eCall
ISO 15638-11:2014 ed.1- id.62037	Intelligent transport systems Framework for cooperative telematics applications for regulated vehicles (TARV) Part 11: Driver work records
ISO 15638-12:2014 ed.1- id.62038	Intelligent transport systems Framework for cooperative telematics applications for regulated vehicles (TARV) Part 12: Vehicle mass monitoring
ISO/TS 15638-13:2015 ed.1- id.62718	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 13: "Mass" information for jurisdictional control and enforcement
ISO 15638-14:2014 ed.1- id.62052	Intelligent transport systems Framework for cooperative telematics applications for regulated vehicles (TARV) Part 14: Vehicle access control
ISO 15638-15:2014 ed.1- id.62053	Intelligent transport systems Framework for cooperative telematics applications for regulated vehicles (TARV) Part 15: Vehicle location monitoring
ISO 15638-16:2014 ed.1- id.62054	Intelligent transport systems Framework for cooperative telematics applications for regulated vehicles (TARV) Part 16: Vehicle speed monitoring
ISO 15638-17:2014 ed.1- id.62055	Intelligent transport systems Framework for cooperative telematics applications for regulated vehicles (TARV) Part 17: Consignment and location monitoring
ISO 15638-18:2017 ed.1- id.62056	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 18: ADR (Dangerous Goods)
ISO/TS 15638-19:2013 ed.1- id.62725	Intelligent transport systems Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) Part 19: Vehicle parking facilities (VPF)
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ISO 15623:2013 ed.2- id.56655	Intelligent transport systems Forward vehicle collision warning systems Performance requirements and test procedures
ISO 15622:2018 ed.3- id.71515	Intelligent transport systems Adaptive cruise control systems Performance requirements and test procedures
ISO 15075:2003 ed.1- id.38478	Transport information and control systems In-vehicle navigation systems Communications message set requirements
ISO/TS 14907-1:2015 ed.3- id.67917 Vienna Agreement	Electronic fee collection Test procedures for user and fixed equipment Part 1: Description of test procedures
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ISO 14906:2018 ed.3- id.72124 Vienna Agreement	Electronic fee collection Application interface definition for dedicated short-range communication
ISO 14827-1:2005 ed.1- id.41361	Transport information and control systems Data interfaces between centres for transport information and control systems Part 1: Message definition requirements
ISO 14827-2:2005 ed.1- id.41362	Transport information and control systems Data interfaces between centres for transport information and control systems Part 2: DATEX-ASN
ISO 14827-3:2019 ed.1- id.75182	Transport information and control systems Data interfaces between centres for transport information and control systems Part 3: Data interfaces between centres for intelligent transport sytems (ITS) using XML (Profile A)
ISO 14825:2011 ed.2- id.54610 Vienna Agreement	Intelligent transport systems Geographic Data Files (GDF) GDF5.0
ISO 14823:2017 ed.1- id.61546 Vienna Agreement	Intelligent transport systems Graphic data dictionary
ISO 14819-1:2013 ed.2- id.59230 Vienna Agreement	Intelligent transport systems Traffic and travel information messages via traffic message coding Part 1: Coding protocol for Radio Data System Traffic Message Channel (RDS-TMC) using ALERT-C



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ISO 14819-2:2013 ed.2- id.59231 Vienna Agreement	Intelligent transport systems Traffic and travel information messages via traffic message coding Part 2: Event and information codes for Radio Data System Traffic Message Channel (RDS-TMC) using ALERT-C
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ISO 14817-1:2015 ed.1- id.65668	Intelligent transport systems ITS central data dictionaries Part 1: Requirements for ITS data definitions
ISO 14817-2:2015 ed.1- id.65669	Intelligent transport systems ITS central data dictionaries Part 2: Governance of the Central ITS Data Concept Registry
ISO 14817-3:2017 ed.1- id.67416	Intelligent transport systems ITS data dictionaries Part 3: Object identifier assignments for ITS data concepts
ISO 14816:2005 ed.1- id.38667 Vienna Agreement 1 Cor./Amd.	Road transport and traffic telematics Automatic vehicle and equipment identification Numbering and data structure
ISO 14815:2005 ed.1- id.38666 Vienna Agreement	Road transport and traffic telematics Automatic vehicle and equipment identification System specifications
ISO 14814:2006 ed.1- id.37046 Vienna Agreement	Road transport and traffic telematics Automatic vehicle and equipment identification Reference architecture and terminology
ISO 14813-1:2015 ed.2- id.57393	Intelligent transport systems Reference model architecture(s) for the ITS sector Part 1: ITS service domains, service groups and services
ISO 14813-5:2010 ed.1- id.46008	Intelligent transport systems Reference model architecture(s) for the ITS sector Part 5: Requirements for architecture description in ITS standards
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ISO 14296:2016 ed.1- id.54587	Intelligent transport systems Extension of map database specifications for applications of cooperative ITS
ISO/TR 13185-1:2012 ed.1- id.53455	Intelligent transport systems Vehicle interface for provisioning and support of ITS services Part 1: General information and use case definition
ISO 13185-2:2015 ed.1- id.56821	Intelligent transport systems Vehicle interface for provisioning and support of ITS services Part 2: Unified gateway protocol (UGP) requirements and specification for vehicle ITS station gateway (V-ITS-SG) interface
ISO 13185-3:2018 ed.1- id.61572	Intelligent transport systems Vehicle interface for provisioning and support of ITS Services Part 3: Unified vehicle interface protocol (UVIP) server and client API specification
ISO/TR 13184-1:2013 ed.1- id.57024	Intelligent transport systems (ITS) Guidance protocol via personal ITS station for advisory safety systems Part 1: General information and use case definitions
ISO 13184-2:2016 ed.1- id.61573	Intelligent transport systems (ITS) Guidance protocol via personal ITS station for advisory safety systems Part 2: Road guidance protocol (RGP) requirements and specification
ISO 13184-3:2017 ed.1- id.71871	Intelligent transport systems (ITS) Guidance protocol via personal ITS station for advisory safety systems Part 3: Road guidance protocol (RGP) conformance test specification
ISO 13183:2012 ed.1- id.53449	Intelligent transport systems Communications access for land mobiles (CALM) Using broadcast communications
ISO 13143-1:2016 ed.1- id.68246 Vienna Agreement	Electronic fee collection Evaluation of on-board and roadside equipment for conformity to ISO 12813 Part 1: Test suite structure and test purposes
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ISO 13141:2015 ed.1- id.64166 Vienna Agreement 1 Cor./Amd.	Electronic fee collection Localisation augmentation communication for autonomous systems
ISO 13141:2015/Amd 1:2017 ed.1- id.70034 Vienna Agreement 1 Cor./Amd.	Electronic fee collection Localisation augmentation communication for autonomous systems Amendment 1





Reference	Title
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ISO 13140-2:2016 ed.1- id.70048 Vienna Agreement	Electronic fee collection Evaluation of on-board and roadside equipment for conformity to ISO 13141 Part 2: Abstract test suite
ISO 13111-1:2017 ed.1- id.61562	Intelligent transport systems (ITS) The use of personal ITS station to support ITS service provision for travellers Part 1: General information and use case definitions
ISO/TR 12859:2009 ed.1- id.52052	Intelligent transport systems System architecture Privacy aspects in ITS standards and systems
ISO 12855:2015 ed.2- id.64127 Vienna Agreement	Electronic fee collection Information exchange between service provision and toll charging
ISO 12813:2015 ed.1- id.64165 Vienna Agreement 2Cor./Amd.	Electronic fee collection Compliance check communication for autonomous systems
ISO 12813:2015/Amd 1:2017 ed.1- id.70033 Vienna Agreement 1Cor./Amd.	Electronic fee collection Compliance check communication for autonomous systems Amendment 1
ISO/TR 11769:2010 ed.1- id.50764	Intelligent transport systems Communications access for land mobiles (CALM) Data retention for law enforcement
ISO/TR 11766:2010 ed.1- id.50763	Intelligent transport systems Communications access for land mobiles (CALM) Security considerations for lawful interception
ISO 11270:2014 ed.1- id.50347	Intelligent transport systems Lane keeping assistance systems (LKAS) Performance requirements and test procedures
ISO 11067:2015 ed.1- id.50091	Intelligent transport systems Curve speed warning systems (CSWS) Performance requirements and test procedures
ISO/TR 10992:2011 ed.1- id.46550	Intelligent transport systems Use of nomadic and portable devices to support ITS service and multimedia provision in vehicles





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ISO/PWI 21733 ed.1- id.71519	Intelligent transport systems Public transport Synchronization of terminology and role models
ISO/PWI 21345 ed.1- id.70634	Intelligent transport systems Public transport Electric vehicle charging infrastructure for bus rapid transit (BRT)
ISO/PWI 21344 ed.1- id.70633	Intelligent transport systems - Public transport - Emergency services E-Call device for emergency on connected vehicles using ITS station
ISO/PWI 14813-7 ed.1- id.71049	Intelligent transport systems Reference model architecture(s) for the ITS sector Part 7: Guide to the use of ITS standards
ISO/NP 23374-2 ed.1- id.75834	Intelligent transport systems Automated valet parking systems (AVPS) Part 2: Requirements and test procedures for the vehicle operation
ISO/NP 22737 ed.1- id.73767	Intelligent transport systems Low-speed automated driving (LSAD) systems for limited operational design domains Performance requirements, system requirements and performance test procedures
ISO/NP 13111-2 ed.1- id.71521	Intelligent transport systems (ITS) The use of personal ITS station to support ITS service provision for travellers Part 2: General requirements for data exchange between personal ITS station and other ITS stations
ISO/DIS 15638-9 ed.1- id.70651	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 9: Remote electronic tachograph monitoring (RTM)
ISO/CD 20530 ed.1- id.68266	Intelligent transport systems Information for emergency service support via personal ITS station General requirements and technical definition





Reference	Title
ISO/CD 20529-2 ed.1- id.71522	Intelligent transport systems Framework for green ITS (G-ITS) standards Part 2: Integrated mobile service application and specification
ISO 15784-2:2015/CD Amd 1 ed.1- id.75360 1 Cor./Amd.	Intelligent transport systems (ITS) Data exchange involving roadside modules communication Part 2: Centre to field device communications using SNMP Amendment 1
ISO/NP 17419-3 ed.1- id.75829	Intelligent transport systems Identifiers Part 3: Architecture requirements for ITS- AID requests
ISO/AWI TS 21176 ed.1- id.70055 Vienna Agreement	Intelligent transport systems Cooperative ITS Position, velocity and time functionality in the ITS station
ISO/DIS 19297-1 ed.1- id.73116	Intelligent transport systems Shareable geospatial databases for ITS applications Part 1: Framework
ISO/DIS 17573-1 ed.1- id.71982 Vienna Agreement	Electronic fee collection Systems architecture for vehicle-related tolling Part 1: Reference model
ISO/AWI 21210 ed.2- id.73262	Intelligent transport systems Communications access for land mobiles (CALM) IPv6 Networking
ISO/AWI 20684-10 ed.1- id.73782	Intelligent transport systems Roadside modules SNMP data interface Part 10: Variable message signs
ISO/CD 20524-2 ed.1- id.72494	Intelligent transport systems Geographic Data Files (GDF) GDF5.1 Part 2: Map data used in automated driving systems, Cooperative ITS, and multi-modal transport
ISO/CD 17572-4 ed.1- id.72984	Intelligent transport systems Location referencing for geographic databases Part 4: Lane-level location referencing
ISO/CD 17515-2 ed.1- id.70073	Intelligent transport systems Communications access for land mobiles (CALM) Evolved universal terrestrial radio access network (E-UTRAN) Part 2: Device to device communications (D2D)
ISO/NP 17429 ed.1- id.73780 Vienna Agreement	Intelligent transport systems Cooperative ITS ITS station facilities for the transfer of information between ITS stations
ISO/CD 15638-4 ed.1- id.72094	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 4: System security requirements





Reference	Title
ISO 29281-2 ed.2- id.69636	Intelligent transport systems Localized communications Part 2: Legacy system support
ISO/DIS 26683-3 ed.1- id.73246	Intelligent transport systems Freight land conveyance content identification and communication Part 3: Monitoring cargo condition information during transport
ISO/NP TS 25114 ed.2- id.59702	Intelligent transport systems Probe data reporting management (PDRM)
ISO 24534- 4:2010/Amd 1 ed.1- id.68872 Vienna Agreement 1 Cor./Amd.	Automatic vehicle and equipment identification Electronic registration identification (ERI) for vehicles Part 4: Secure communications using asymmetrical techniques Amendment 1
ISO 24534- 5:2011/Amd 1 ed.1- id.68873 1 Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification Electronic Registration Identification (ERI) for vehicles Part 5: Secure communications using symmetrical techniques Amendment 1
ISO/DTS 24533 ed.2- id.75321	Intelligent transport systems Electronic information exchange to facilitate the movement of freight and its intermodal transfer Road transport information exchange methodology
ISO/NP 24531-2 ed.1- id.68570	Intelligent transport systems System architecture, taxonomy and terminology Part 2: Using ASN.1 in ITS standards, data registries and data dictionaries
ISO/NP 24100 ed.2- id.59701	Intelligent transport systems Basic principles for personal data protection in probe vehicle information services
ISO/NP TR 24098 ed.2- id.75000	Intelligent transport systems System architecture, taxonomy and terminology Procedures for developing ITS deployment plans utilizing ITS system architecture
ISO/TR 24097-3 ed.1- id.65674	Intelligent transport systems Using web services (machine-machine delivery) for ITS service delivery Part 3: Quality of service
ISO/NP 24014-1 ed.3- id.72507 Vienna Agreement	Public transport Interoperable fare management system Part 1: Architecture
ISO/PWI TR 23797 ed.1- id.76975	Intelligent transport systems Mobility integration Gap and overlap analysis of ISO/TC 204 work programme for mobility integration
ISO/PWI 23795-1 ed.1- id.76971	Intelligent transport systems Extracting trip data via nomadic device for estimating CO2 emissions Part 1: Fuel consumption determination for fleet management





Reference	Title
ISO/PWI 23795-2 ed.1- id.76972	Intelligent transport systems Extracting trip data via nomadic device for estimating CO2 emissions Part 2: Information provision for eco-friendly driving behaviour
ISO/PWI 23793-1	Intelligent transport systems Fallback functions for automated driving systems
ed.1- id.76966	Part 1: Framework
ISO/PWI 23793-2	Intelligent transport systems Fallback functions for automated driving systems
ed.1- id.76967	Part 2: Performance requirements and test procedures for emergency stopping
ISO/PWI 23792-1	Intelligent transport systems Motorway chauffeur systems (MCS) Part 1:
ed.1- id.76964	Framework and general requirements
ISO/PWI 23792-2	Intelligent transport systems Motorway chauffeur systems (MCS) Part 2:
ed.1- id.76965	Requirements and test procedures for in-lane driving
ISO/PWI TS 23728-1 ed.1- id.76774	Intelligent transport systems Use of UML in ITS standards Part 1: Content of ITS data models
ISO/PWI TS 23728-2 ed.1- id.76775	Intelligent transport systems Use of UML in ITS standards Part 2: Version control procedures
ISO/PWI 23507 ed.1- id.75828	Intelligent transport systems Management of electronic privacy regulations (MEPR)
ISO/PWI 23377-1 ed.1- id.75364	Intelligent transport systems Functional safety for vehicle-to-vehicle cooperative functions (FSV2V) Part 1: Platooning
ISO/NP 23376 ed.1- id.75363	Intelligent transport systems Vehicle-to-vehicle intersection collision warning systems (VVICW) Performance requirements and test procedures
ISO/PWI 23375	Intelligent transport systems Collision evasive lateral manoeuvre systems (CELM)
ed.1- id.75362	Performance requirements and test procedures
ISO/PWI 23374-1	Intelligent transport systems Automated valet parking systems (AVPS) Part 1:
ed.1- id.75361	System overview and framework
ISO/PWI 23374-3	Intelligent transport systems Automated valet parking systems (AVPS) Part 3:
ed.1- id.75835	Requirements for the interface to back-office operation
ISO/PWI 23374-4	Intelligent transport systems Automated valet parking systems (AVPS) Part 4:
ed.1- id.75836	Requirements for user interface
ISO/AWI TR 23255 ed.1- id.75090	Intelligent transport systems Architecture Applicability of data distribution technologies within ITS





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ISO/AWI TR 23254 ed.1- id.75089	Intelligent transport systems Architecture Use cases and high-level reference architecture for connected, automated vehicles
ISO/NP 22837 ed.2- id.59700	Vehicle probe data for wide area communications
ISO/AWI 22741-1 ed.1- id.73783	Intelligent transport systems Roadside modules AP-DATEX data interface Part 1: Overview
ISO/PWI 22741-2 ed.1- id.73784	Intelligent transport systems Roadside modules AP-DATEX data interface Part 2: Generalized field devices - basic management
ISO/PWI 22741-3 ed.1- id.75358	Intelligent transport systems Roadside modules AP-DATEX data interface Part 3: Generalised field device scheduler
ISO/PWI 22741-4 ed.1- id.75359	Intelligent transport systems Roadside modules AP-DATEX data interface Part 4: Generalised field device exceptions
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ISO/NP 22738 ed.1- id.73769	Intelligent transport systems Localized communications Optical camera communication
ISO/SAE NP PAS 22736 ed.1- id.73766	Intelligent transport systems Taxonomy and definitions for terms related to driving automation systems for on-road motor vehicles
ISO/AWI TS 22726-1 ed.1- id.73747	Intelligent transport systems Dynamic data and map database specification for connected and automated driving system applications Part 1: Architecture and data model for harmonization of static map data
ISO/PWI TS 22726-2 ed.1- id.75830	Intelligent transport systems Dynamic data and map database specification for connected and automated driving system applications Part 2: Data model of static transitory and dynamic transitory data
ISO/CD 22418 ed.2- id.76968 Vienna Agreement	Intelligent transport systems Fast service announcement protocol (FSAP) for general purposes in ITS
ISO/PWI 22087 ed.1- id.72521	Intelligent transport systems Exchanging driving experience information collected by nomadic devices
ISO/PRF TR 22086-1 ed.1- id.72520	Intelligent transport systems (ITS) Network based precise positioning infrastructure for land transportation Part 1: General information and use case definitions





Reference	Title
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ISO/DTR 22085-1 ed.1- id.76691	Intelligent transport systems (ITS) Nomadic device service platform for micro mobility Part 1: General information and use cases definition
ISO/AWI 22085-2 ed.1- id.75365	Intelligent transport systems Nomadic device service platform for micro mobility Part 2: Functional requirements and data set definitions
ISO/PWI 22085-3 ed.1- id.75366	Intelligent transport systems Nomadic device service platform for micro mobility Part 3: Data structure and data exchange procedures
ISO/PWI 22084 ed.1- id.72518	Intelligent transport systems Traffic incident notification systems (TINS) System requirements
ISO/CD 22078 ed.1- id.72508	Intelligent transport systems Bicyclist detection and collision mitigation systems (BDCMS) Performance requirements and test procedures
ISO/DTR 21735 ed.1- id.71523	Intelligent transport systems Framework architecture for plug & play (PnP) functionality in vehicles utilizing nomadic devices
ISO/AWI 21734 ed.1- id.71520	Intelligent transport systems Public transport Performance testing for connectivity and safety functions of automated driving bus
ISO/DTR 21724-1 ed.1- id.71511	Intelligent transport systems Common transport service account systems Part 1: Framework and use cases
ISO/PWI TS 21719-3 ed.1- id.73748	Electronic fee collection Personalization of on-board equipment Part 3: Using Bluetooth
ISO/TR 21718 ed.2- id.75072	Intelligent transport systems Spatio-temporal data dictionary for cooperative ITS and automated driving systems 2.0
ISO/DIS 21219-2 ed.1- id.76942	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 2: UML modelling rules (TPEG2-UMR)
ISO/DIS 21219-3 ed.1- id.76726	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 3: UML to binary conversion rules (TPEG2-UBCR)
ISO/DIS 21219-4 ed.1- id.76727	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 4: UML to XML conversion rules





Reference	Title
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ISO/DIS 21219-6 ed.1- id.76729	Intelligent transport systems Traffic and travel information(TTI) via transport protocol experts group, generation 2 (TPEG2) Part 6: Message management container (TPEG2-MMC)
ISO/DIS 21219-18 ed.1- id.76730	Intelligent transport systems Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 18: Traffic flow and prediction application (TPEG2-TFP)
ISO/CD 21202 ed.1- id.70072	Intelligent transport systems Partially Automated Lane Change Systems (PALS) Functional / operational requirements and test procedures
ISO/AWI TS 21193 ed.1- id.70065	Electronic fee collection Requirements for EFC application interfaces on common media
ISO/AWI TS 21192 ed.1- id.70064	Electronic fee collection Support for traffic management
ISO/PRF TS 21189 ed.1- id.70060 Vienna Agreement	Intelligent transport systems Cooperative ITS Test requirements and protocol implementation conformance statement (PICS) pro forma for ISO/TS 17426
ISO/AWI TR 21186 ed.1- id.70059 Vienna Agreement	Intelligent transport systems Cooperative ITS Guidelines on the use of C-ITS standards for hybrid communications
ISO/DTS 21185 ed.1- id.70058 Vienna Agreement	Intelligent transport systems Communication profiles for secure connections between trusted devices
ISO/AWI TS 21184 ed.1- id.70057 Vienna Agreement	Intelligent transport systems Management of messages containing information of sensor and control networks specified in data dictionaries
ISO/DTS 21177 ed.1- id.70056 Vienna Agreement	Intelligent transport systems ITS station security services for secure session establishment and authentication between trusted devices
ISO/DIS 20901 ed.1- id.69407	Intelligent transport systems Emergency electronic brake light systems (EEBL) Performance requirements and test procedures
ISO/DIS 20900 ed.1- id.69405	Intelligent transport systems Partially automated parking systems (PAPS) Performance requirements and test procedures





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ISO/CD 20684-1 ed.1- id.69118	Intelligent transport systems Roadside modules SNMP data interface Part 1: Overview
ISO/CD 20684-2 ed.1- id.73775	Intelligent transport systems Roadside modules SNMP data interface Part 2: Generalized field devices Basic management
ISO/AWI 20684-3 ed.1- id.75245	Intelligent transport systems Roadside modules SNMP data interface Part 3: Generalized field device Scheduler
ISO/AWI 20684-4 ed.1- id.75246	Intelligent transport systems Roadside modules SNMP data interface Part 4: Generalized field device Exceptions
ISO/AWI TR 20527 ed.1- id.68263	Intelligent transport systems Interoperability between IFM systems and NFC mobile devices
ISO/DIS 20524-1 ed.1- id.68244	Intelligent transport systems Geographic Data Files (GDF) GDF5.1 Part 1: Application independent map data shared between multiple sources
ISO/PRF TS 19468 ed.1- id.64996	Intelligent transport systems Data interfaces between centres for transport information and control systems Platform independent model specifications for data exchange protocols for transport information and control systems
ISO/DIS 19414 ed.1- id.75837	Intelligent transport systems Service architecture of probe vehicle systems
ISO/NP TS 19321 ed.2- id.76974	Intelligent transport systems Cooperative ITS Dictionary of in-vehicle information (IVI) data structures
ISO/NP 19297-4 ed.1- id.76776	Intelligent transport systems Shareable geospatial databases for ITS applications Part 4: Common data structure
ISO/PRF TS 19091 ed.2- id.73781	Intelligent transport systems Cooperative ITS Using V2I and I2V communications for applications related to signalized intersections
ISO/NP 19083-3 ed.1- id.64638	Intelligent transport systems Public transport Emergency evacuation and disaster response and recovery Part 3: Use cases
ISO/DIS 19082 ed.1- id.63889	Intelligent transport systems Definition of data elements and data frames between roadside modules and signal controllers for cooperative signal control
ISO/AWI 18561-1 ed.1- id.75371	Intelligent transport systems Urban mobility applications via nomadic device for green transport management Part 1: General requirements for data exchange between ITS stations





Reference	Title
ISO/PWI 18561-2 ed.1- id.76970	Intelligent transport systems Urban mobility applications via nomadic device for green transport management Part 2: Trip and modal choice applications and specification
ISO/NP 18380	Intelligent Transport Systems Communications access for land mobiles (CALM) -
ed.1- id.62297	IPv4-IPv6 interoperability
ISO/NP 18378	Intelligent Transport Systems Communications access for land mobiles (CALM) -
ed.1- id.62295	Multicast
ISO/NP 18376	Intelligent Transport Systems Criteria for Privacy and Integrity protection in Probe
ed.1- id.62293	Vehicle Information Systems
ISO/PWI TR 17573-2	Electronic fee collection System architecture for vehicle related tolling Part 2:
ed.1- id.75831	Terminology
ISO/DIS 17515-3	Intelligent transport systems Evolved-universal terrestrial radio access network
ed.1- id.73238	Part 3: LTE-V2X
ISO/PWI 17438-2	Intelligent transport systems Indoor navigation for personal and vehicle ITS stations
ed.1- id.67087	Part 2: Requirements and specification for indoor maps
ISO/PWI 17438-3	Intelligent transport systems Indoor navigation for personal and vehicle ITS stations
ed.1- id.67088	Part 3: TBD
ISO/PRF 17438-4 ed.1- id.67089	Intelligent transport systems Indoor navigation for personal and vehicle ITS station - - Part 4: Requirements and specification for interface between personal/vehicle and central ITS stations
ISO/CD 17419-2 ed.1- id.73745	Intelligent transport systems Identifiers Part 2: Management and operation of registries
ISO 17264:2009/Amd 1 ed.1- id.67249 Vienna Agreement 1 Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification Interfaces Amendment 1
ISO 17262:2012/Amd 1 ed.1- id.67248 Vienna Agreement 1Cor./Amd.	Intelligent transport systems Automatic vehicle and equipment identification Numbering and data structures Amendment 1





Reference	Title
ISO/DTS 17187 ed.2- id.75322	Intelligent transport systems Electronic information exchange to facilitate the movement of freight and its intermodal transfer Governance rules to sustain electronic information exchange methods
ISO/NP 17185-4 ed.1- id.61549	Intelligent transport systems Public transport user information Part 4: Use cases for mobility journey planning systems and their inter-operation
ISO/NP 17185-5 ed.1- id.61550	Intelligent transport systems Part 5: Governance of mandatory public transport standards
ISO/NP 17185-6 ed.1- id.61551	Intelligent transport systems Part 6: Modelling stops and network topology
ISO/NP 17185-7 ed.1- id.61552	Intelligent transport systems Part 7: Conformance test of interoperable fare management system (ISO 24014-1)
ISO/NP 17185-8 ed.1- id.61553	Intelligent transport systems Part 8: Framework message architecture
ISO/NP TS 16785 ed.2- id.75832	Electronic Fee Collection (EFC) Interface definition between DSRC-OBE and external in-vehicle devices
ISO/DIS 15638-20 ed.1- id.69031	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 20: Weigh-in-motion monitoring
ISO/FDIS 15638-22 ed.1- id.73949	Intelligent transport systems Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) Part 22: Freight vehicle stability monitoring
ISO/PWI 15638-23 ed.1- id.76780	Intelligent transport systems Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) Part 23: Tyre monitoring
ISO/CD 14823-1 ed.1- id.76963 Vienna Agreement	Intelligent transport systems Graphic data dictionary Part 1: Specification
ISO/DTR 14823-2 ed.1- id.73764	Intelligent transport systems Graphic data dictionary Part 2: Examples
ISO/CD 14819-1 ed.3- id.76781 Vienna Agreement	Intelligent transport systems Traffic and travel information messages via traffic message coding Part 1: Coding protocol for Radio Data System Traffic Message Channel (RDS-TMC) using ALERT-C
ISO/CD 14819-2 ed.3- id.76782 Vienna Agreement	Intelligent transport systems Traffic and travel information messages via traffic message coding Part 2: Event and information codes for Radio Data System Traffic Message Channel (RDS-TMC) using ALERT-C





Reference	Title
ISO/CD 14819-3 ed.3- id.76783 Vienna Agreement	Intelligent transport systems Traffic and travel information messages via traffic message coding Part 3: Location referencing for Radio Data System Traffic Message Channel (RDS-TMC) using ALERT-C
ISO/CD 14819-6 ed.2- id.76784 Vienna Agreement	Traffic and Traveller Information (TTI) TTI messages via traffic message coding Part 6: Encryption and conditional access for the Radio Data System Traffic Message Channel ALERT C coding
ISO 14816:2005/PRF Amd 1 ed.1- id.67247 Vienna Agreement 1 Cor./Amd.	Road transport and traffic telematics Automatic vehicle and equipment identification Numbering and data structure Amendment 1
ISO/DIS 14813-5 ed.2- id.73746	Intelligent transport systems Reference model architecture(s) for the ITS sector Part 5: Requirements for architecture description in ITS standards
ISO/NP TR 14812 ed.1- id.75088	Intelligent transport systems - Terminology
ISO/CD 13185-4 ed.1- id.74337	Intelligent transport systems Vehicle interface for provisioning and support of ITS Services Part 4: Unified vehicle interface protocol (UVIP) conformance test specification
ISO/AWI TR 12859 ed.2- id.75087	Intelligent transport systems System architecture Privacy aspects in ITS standards and systems
ISO/DIS 12813 ed.2- id.75833 Vienna Agreement	Electronic fee collection Compliance check communication for autonomous systems

ISO/TC 207 ENVIRONMENTAL MANAGEMENT

Scope:

Standardization in the field of environmental management systems and tools in support of sustainable development.

Excluded:

• test methods of pollutants, setting limit values and levels of environmental performance, and standardization of products.





Published documents (of interest for FORESEE)

Reference	Title
iso 14050:2009	Environmental management - vocabulary





ISO/TC 207/SC 7 GREENHOUSE GAS MANAGEMENT AND RELATED ACTIVITIES

Scope:

Standardization related to the management of greenhouse gas emissions and removals and related activities. Excludes National GHG inventory guidelines that are responsibility of the Intergovernmental Panel on Climate Change.

Published documents

Reference	Title
ISO 14080:2018 ed.1- id.67452	Greenhouse gas management and related activities Framework and principles for methodologies on climate actions
ISO/TR 14069:2013 ed.1- id.43280	Greenhouse gases Quantification and reporting of greenhouse gas emissions for organizations Guidance for the application of ISO 14064-1
ISO 14067:2018 ed.1- id.71206	Greenhouse gases Carbon footprint of products Requirements and guidelines for quantification
ISO 14066:2011 ed.1- id.43277	Greenhouse gases Competence requirements for greenhouse gas validation teams and verification teams
ISO 14065:2013 ed.2- id.60168	Greenhouse gases Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition
ISO 14064-1:2018 ed.2- id.66453	Greenhouse gases Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
ISO 14064-2:2006 ed.1- id.38382	Greenhouse gases Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements
ISO 14064-3:2006 ed.1- id.38700	Greenhouse gases Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions





Under development

Reference	Title
ISO/NP 19694-1 ed.1- id.70745	Stationary source emissions Determination of greenhouse gas (GHG) emissions in energy-intensive industries Part 1: General aspects
ISO/CD 14065 ed.3- id.74257	Greenhouse gases Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition
ISO/AWI 14097 ed.2- id.72433	Framework and principles for assessing and reporting investments and financing activities related to climate change
ISO/AWI TS 14092 ed.1- id.68509	GHG Management & related activities: requirement & guidance of adaptation planning for organizations including local governments and communities
ISO/CD 14091 ed.1- id.68508	Adaptation to climate change Vulnerability, impacts and risk assessment
ISO/FDIS 14090 ed.1- id.68507	Adaptation to climate change Principles, requirements and guidelines
ISO/AWI 14082 ed.1- id.68505	Radiative Forcing Management Guidance for the quantification and reporting of radiative forcing-based climate footprints and mitigation efforts
ISO/PWI 14068 ed.1- id.43279	Greenhouse gas management and related activities Carbon neutrality
ISO 14064-2 ed.2- id.66454	Greenhouse gases Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements
ISO 14064-3 ed.2- id.66455	Greenhouse gases Part 3: Specification with guidance for the verification and validation of greenhouse gas statements





ISO/TC 251 ASSET MANAGEMENT

Scope:

Standardization in the field of asset management.

Published documents

Reference	Title
ISO 55001:20014	Asset management — Management systems — Requirements

ISO/TC 262 Risk management

Scope:

Standardization in the field of risk management

Published documents

Reference	Title
IEC 31010:2009 ed.1- id.51073	Risk management Risk assessment techniques
ISO/TR 31004:2013 ed.1- id.56610	Risk management Guidance for the implementation of ISO 31000
ISO 31000:2018 ed.2- id.65694	Risk management Guidelines

Under development





Reference	Title
ISO/NP 31073 ed.1- id.54247	Risk management terminology
ISO/AWI 31030 ed.1- id.54204	Risk management Managing travel risks Guidance for organizations
ISO/CD 31022 ed.1- id.69295	Risk management Guidelines for the management of legal risk
ISO/NP 31050 ed.1- id.54224	Guidance for managing emerging risks to enhance resilience
IEC/DIS 31010 ed.2- id.72140	Risk management Risk assessment techniques
NP IWA 31 ed.1- id.75812	Using ISO 31000 guidance on risk management in management systems

ISO/TC 292 SECURITY AND RESILIENCE

Scope:

Standardization in the field of security to enhance the safety and resilience of society.

• Excluded: Sector specific security projects developed in other relevant ISO committees and projects developed in ISO/TC 262 and ISO/PC 278.

Published documents:

Reference	Title
ISO 28004-1:2007 ed.1- id.44962 4 Cor./Amd.	Security management systems for the supply chain Guidelines for the implementation of ISO 28000 Part 1: General principles





Reference	Title
ISO 28004-3:2014 ed.1- id.60910	Security management systems for the supply chain Guidelines for the implementation of ISO 28000 Part 3: Additional specific guidance for adopting ISO 28000 for use by medium and small businesses (other than marine ports)
ISO 28004-4:2014 ed.1- id.60914	Security management systems for the supply chain Guidelines for the implementation of ISO 28000 Part 4: Additional specific guidance on implementing ISO 28000 if compliance with ISO 28001 is a management objective
ISO 28003:2007 ed.1- id.45416	Security management systems for the supply chain Requirements for bodies providing audit and certification of supply chain security management systems
ISO 28002:2011 ed.1- id.56087	Security management systems for the supply chain Development of resilience in the supply chain Requirements with guidance for use
ISO 28001:2007 ed.1- id.45654	Security management systems for the supply chain Best practices for implementing supply chain security, assessments and plans Requirements and guidance
ISO 28000:2007 ed.1- id.44641	Specification for security management systems for the supply chain
ISO 22398:2013 ed.1- id.50294	Societal security Guidelines for exercises
ISO 22397:2014 ed.1- id.50293	Societal security Guidelines for establishing partnering arrangements
ISO 22395:2018 ed.1- id.50291	Security and resilience Community resilience Guidelines for supporting vulnerable persons in an emergency
ISO 22382:2018 ed.1- id.73859	Security and resilience Authenticity, integrity and trust for products and documents Guidelines for the content, security, issuance and examination of excise tax stamps
ISO 22381:2018 ed.1- id.73858	Security and resilience Authenticity, integrity and trust for products and documents Guidelines for establishing interoperability among object identification systems to deter counterfeiting and illicit trade
ISO 22380:2018 ed.1- id.73857	Security and resilience Authenticity, integrity and trust for products and documents General principles for product fraud risk and countermeasures
ISO/TS 22375:2018 ed.1- id.71531	Security and resilience Guidelines for complexity assessment process
ISO/TR 22351:2015 ed.1- id.57384	Societal security Emergency management Message structure for exchange of information





Reference	Title
ISO/TS 22331:2018 ed.1- id.50068	Security and resilience Business continuity management systems Guidelines for business continuity strategy
ISO/TS 22330:2018 ed.1- id.50067	Security and resilience Business continuity management systems Guidelines for people aspects of business continuity
ISO 22327:2018 ed.1- id.50064	Security and resilience Emergency management Guidelines for implementation of a community-based landslide early warning system
ISO 22326:2018 ed.1- id.67159	Security and resilience Emergency management Guidelines for monitoring facilities with identified hazards
ISO 22325:2016 ed.1- id.50062	Security and resilience Emergency management Guidelines for capability assessment
ISO 22324:2015 ed.1- id.50061	Societal security Emergency management Guidelines for colour-coded alerts
ISO 22322:2015 ed.1- id.53335	Societal security Emergency management Guidelines for public warning
ISO 22320:2018 ed.2- id.67851	Security and resilience Emergency management Guidelines for incident management
ISO 22319:2017 ed.1- id.66951	Security and resilience Community resilience Guidelines for planning the involvement of spontaneous volunteers
ISO/TS 22318:2015 ed.1- id.65336	Societal security Business continuity management systems Guidelines for supply chain continuity
ISO/TS 22317:2015 ed.1- id.50054	Societal security Business continuity management systems Guidelines for business impact analysis (BIA)
ISO 22316:2017 ed.1- id.50053	Security and resilience Organizational resilience Principles and attributes
ISO 22315:2014 ed.1- id.50052	Societal security Mass evacuation Guidelines for planning
ISO 22313:2012 ed.1- id.50050 Vienna Agreement	Societal security Business continuity management systems Guidance
ISO 22311:2012 ed.1- id.53467 Vienna Agreement	Societal security Video-surveillance Export interoperability





Reference	Title
ISO 22301:2012 ed.1- id.50038 Vienna Agreement	Societal security Business continuity management systems Requirements
ISO 22300:2018 ed.2- id.68436 Vienna Agreement	Security and resilience Vocabulary
ISO 18788:2015 ed.1- id.63380	Management system for private security operations Requirements with guidance for use
ISO 16678:2014 ed.1- id.57391	Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade
ISO 12931:2012 ed.1- id.52210	Performance criteria for authentication solutions used to combat counterfeiting of material goods

Under development

Reference	Title
ISO/WD 22313 ed.2- id.75107 Vienna Agreement	Security and resilience Business continuity management systems Guidance
ISO/WD 22384 ed.1- id.50286	Security and resilience Authenticity, integrity and trust for products and documents Guidelines to establish and monitor a protection plan and its implementation
ISO/NP 22383 ed.1- id.50285	Security and resilience Authenticity, integrity and trust for products and documents Performance criteria for authentication solutions used to ensure genuineness and integrity of material goods
ISO/PWI 23804 ed.1- id.77007	Security and resilience Emergency management Framework
ISO/PWI 23803 ed.1- id.77006	Security and resilience Community resilience Resource management
ISO/PWI 23110 ed.1- id.74586	Protective security Basic elements for organization
ISO/PWI 23109 ed.1- id.74585	Public Private Partnership (PPP) based on local resilience enhancement to contribute to sustainable development





Reference	Title
ISO/PWI 22815 ed.1- id.73985	Framework and principles for methodologies on urban resilience
ISO/DIS 22396 ed.1- id.50292	Security and resilience Community resilience Guidelines for information exchange between organizations
ISO/CD 22392 ed.1- id.50289	Security and resilience Community resilience Guidelines for conducting peer reviews
ISO/CD TR 22370 ed.1- id.50273	Security and resilience Framework and principles for urban resilience
ISO/AWI 22342 ed.1- id.50079	Security and resilience Protective security Guidelines for the development of a security plan for an organization
ISO/CD 22341 ed.1- id.50078	Security and resilience Protective security Guidance for security and crime prevention by urban design and management
ISO/WD 22340 ed.1- id.50077	Security and resilience Protective security Architecture, framework and guidelines
ISO/AWI TS 22332 ed.1- id.50069	Security and resilience Business continuity management systems Guidance for developing business continuity procedures
ISO/AWI 22329 ed.1- id.50066	Security and resilience Emergency management Guidelines for the use of social media in emergencies
ISO/DIS 22328-1 ed.1- id.50065	Security and resilience Emergency management Community-based disaster early warning system Part 1: Guidelines for implementation of a community-based disaster early warning system
ISO/DIS 22301 ed.2- id.75106 Vienna Agreement	Security and resilience Business continuity management systems Requirements
ISO/NP 22300 ed.3- id.77008 Vienna Agreement	Security and resilience Vocabulary





IEC 9 ELECTRICAL EQUIPMENT AND SYSTEMS FOR RAILWAYS

Scope:

To prepare international standards for the railways field which includes rolling stock, fixed installations, management systems (including communication, signalling and processing systems) for railway operation, their interfaces and their ecological environment. These standards cover railway networks, metropolitan transport networks (including metros, tramways, trolleybuses and fully automated transport systems) and magnetic levitated transport systems. These standards relate to systems, components and software and they will deal with electrical, electronic and mechanical aspects, the latter being limited to items depending on electrical factors. These standards deal with electromechanical and electronic aspects of power components as well as with electronic hardware and software components.

Published documents:

Reference	Title
IEC 60077-1:2017	Railway applications - Electric equipment for rolling stock - Part 1: General
	service conditions and general rules
IEC 60077-1:2017 RLV	Railway applications - Electric equipment for rolling stock - Part 1: General
	service conditions and general rules
IEC 60077-2:2017	Railway applications - Electric equipment for rolling stock - Part 2:
	Electrotechnical components - General rules
IEC 60077-2:2017 RLV	Railway applications - Electric equipment for rolling stock - Part 2:
	Electrotechnical components - General rules
IEC 60077-3:2001	Railway applications - Electric equipment for rolling stock - Part 3:
	Electrotechnical components - Rules for d.c. circuit-breakers
IEC 60077-4:2003	Railway applications - Electric equipment for rolling stock - Part 4:
	Electrotechnical components - Rules for AC circuit-breakers
IEC 60077-5:2003	Railway applications - Electric equipment for rolling stock - Part 5:
	Electrotechnical components - Rules for HV fuses
IEC 60310:2016	Railway applications - Traction transformers and inductors on board rolling
	stock
IEC 60310:2016/COR1:2018	Corrigendum 1 - Railway applications - Traction transformers and inductors on
·	board rolling stock
IEC 60322:2001	Railway applications - Electric equipment for rolling stock - Rules for power
	resistors of open construction





Reference	Title
IEC 60349-1:2010	Electric traction - Rotating electrical machines for rail and road vehicles - Part 1: Machines other than electronic converter-fed alternating current motors
IEC 60349-2:2010	Electric traction - Rotating electrical machines for rail and road vehicles - Part 2: Electronic converter-fed alternating current motors
IEC TS 60349-3:2010	Electric traction - Rotating electrical machines for rail and road vehicles - Part 3: Determination of the total losses of converter-fed alternating current motors by summation of the component losses
IEC 60349-4:2012	Electric traction - Rotating electrical machines for rail and road vehicles - Part 4: Permanent magnet synchronous electrical machines connected to an electronic converter
IEC 60494-1:2013	Railway applications - Rolling stock - Pantographs - Characteristics and tests - Part 1: Pantographs for main line vehicles
IEC 60494-2:2013	Railway applications - Rolling stock - Pantographs - Characteristics and tests - Part 2: Pantographs for metros and light rail vehicles
IEC 60571:2012	Railway applications - Electronic equipment used on rolling stock
IEC TR 60638:1979	Criteria for assessing and coding of the commutation of rotating electrical machines for traction
IEC 60850:2014	Railway applications - Supply voltages of traction systems
IEC 60913:2013	Railway applications - Fixed installations - Electric traction overhead contact lines
IEC 61133:2016 RLV	Railway applications - Rolling stock - Testing of rolling stock on completion of construction and before entry into service
IEC 61133:2016	Railway applications - Rolling stock - Testing of rolling stock on completion of construction and before entry into service
IEC 61287-1:2014	Railway applications - Power converters installed on board rolling stock - Part 1: Characteristics and test methods
IEC TS 61287-2:2001	Power convertors installed on board railway rolling stock - Part 2: Additional technical information
IEC 61373:2010	Railway applications - Rolling stock equipment - Shock and vibration tests
IEC 61373:2010/COR1:2011	Corrigendum 1 - Railway applications - Rolling stock equipment - Shock and vibration tests
IEC 61375-1:2012	Electronic railway equipment - Train communication network (TCN) - Part 1: General architecture
IEC 61375-2-1:2012	Electronic railway equipment - Train communication network (TCN) - Part 2-1: Wire Train Bus (WTB)
IEC 61375-2-2:2012	Electronic railway equipment - Train communication network (TCN) - Part 2-2: Wire Train Bus conformance testing
IEC 61375-2-3:2015	Electronic railway equipment - Train communication network (TCN) - Part 2-3: TCN communication profile
IEC 61375-2-	Corrigendum 1 - Electronic railway equipment - Train communication network
3:2015/COR1:2015	(TCN) - Part 2-3: TCN communication profile
IEC 61375-2-	Corrigendum 2 - Electronic railway equipment - Train communication network
3:2015/COR2:2016	(TCN) - Part 2-3: TCN communication profile
IEC TS 61375-2-4:2017	Electronic railway equipment - Train communication network (TCN) - Part 2-4: TCN application profile





Reference	Title
IEC 61375-2-5:2014	Electronic railway equipment - Train communication network (TCN) - Part 2-5: Ethernet train backbone
IEC 61375-2-6:2018	Electronic railway equipment - Train communication network (TCN) - Part 2-6: On-board to ground communication
IEC TR 61375-2-7:2014	Electronic railway equipment - Train communication network (TCN) - Part 2-7: Wireless Train Backbone (WLTB)
IEC 61375-3-1:2012	Electronic railway equipment - Train communication network (TCN) - Part 3-1: Multifunction Vehicle Bus (MVB)
IEC 61375-3-2:2012	Electronic railway equipment - Train communication network (TCN) - Part 3-2: MVB (Multifunction Vehicle Bus) conformance testing
IEC 61375-3-3:2012	Electronic railway equipment - Train communication network (TCN) - Part 3-3: CANopen Consist Network (CCN)
IEC 61375-3-4:2014	Electronic railway equipment - Train communication network (TCN) - Part 3-4: Ethernet Consist Network (ECN)
IEC 61377:2016	Railway applications - Rolling stock - Combined test method for traction systems
IEC 61881-1:2010	Railway applications - Rolling stock equipment - Capacitors for power electronics - Part 1: Paper/plastic film capacitors
IEC 61881-2:2012	Railway applications - Rolling stock equipment - Capacitors for power electronics - Part 2: Aluminium electrolytic capacitors with non-solid electrolyte
IEC 61881-	Railway applications - Rolling stock equipment - Capacitors for power
3:2012+AMD1:2013 CSV	electronics - Part 3: Electric double-layer capacitors
IEC 61881-3:2012	Railway applications - Rolling stock equipment - Capacitors for power electronics - Part 3: Electric double-layer capacitors
IEC 61881-	Amendment 1 - Railway applications - Rolling stock equipment - Capacitors for
3:2012/AMD1:2013	power electronics - Part 3: Electric double-layer capacitors
IEC 61991:2018 PRV	Railway applications - Rolling stock - Protective provisions against electrical hazards
IEC 61991:2000	Railway applications - Rolling stock - Protective provisions against electrical hazards
IEC 61992- 1:2006+AMD1:2014 CSV	Railway applications - Fixed installations - DC switchgear - Part 1:General
IEC 61992-1:2006	Railway applications - Fixed installations - DC switchgear - Part 1: General
IEC 61992-	Amendment 1 - Railway applications - Fixed installations - DC switchgear - Part
1:2006/AMD1:2014	1: General
IEC 61992-	Railway applications - Fixed installations - DC switchgear - Part 2:DC circuit-
2:2006+AMD1:2014 CSV	breakers
IEC 61992-2:2006	Railway applications - Fixed installations - DC switchgear - Part 2: DC circuit- breakers
IEC 61992-	Amendment 1 - Railway applications - Fixed installations - DC switchgear - Part
2:2006/AMD1:2014	2: DC circuit-breakers
IEC 61992-	Railway applications - Fixed installations - DC switchgear - Part 3:Indoor d.c.
3:2006+AMD1:2015 CSV	disconnectors, switch-disconnectors and earthing switches
IEC 61992-3:2006	Railway applications - Fixed installations - DC switchgear - Part 3: Indoor d.c. disconnectors, switch-disconnectors and earthing switches





Reference	Title
IEC 61992-	Amendment 1 - Railway applications - Fixed installations - DC switchgear - Part
3:2006/AMD1:2015	3: Indoor d.c. disconnectors, switch-disconnectors and earthing switches
IEC 61992-	Railway applications - Fixed installations - DC switchgear - Part 4:Outdoor d.c.
4:2006+AMD1:2015 CSV	disconnectors, switch-disconnectors and earthing switches
IEC 61992-4:2006	Railway applications - Fixed installations - DC switchgear - Part 4: Outdoor d.c.
	disconnectors, switch-disconnectors and earthing switches
IEC 61992-	Amendment 1 - Railway applications - Fixed installations - DC switchgear - Part
4:2006/AMD1:2015	4: Outdoor d.c. disconnectors, switch-disconnectors and earthing switches
IEC 61992-	Railway applications - Fixed installations - DC switchgear - Part 6:DC switchgear
6:2006+AMD1:2014 CSV	assemblies
IEC 61992-6:2006	Railway applications - Fixed installations - DC switchgear - Part 6: DC switchgear assemblies
IEC 61992-	Amendment 1 - Railway applications - Fixed installations - DC switchgear - Part
6:2006/AMD1:2014	6: DC switchgear assemblies
IEC 61992-7-1:2006	Railway applications - Fixed installations - DC switchgear - Part 7-1:
01002 / 1.2000	Measurement, control and protection devices for specific use in d.c. traction
	systems - Application guide
IEC 61992-7-2:2006	Railway applications - Fixed installations - DC switchgear - Part 7-2:
12001332 / 2.2000	Measurement, control and protection devices for specific use in d.c. traction
	systems - Isolating current transducers and other current measuring devices
IEC 61992-7-3:2006	Railway applications - Fixed installations - DC switchgear - Part 7-3:
IEC 01992-7-3.2000	Measurement, control and protection devices for specific use in d.c. traction
150 00100 1.0010	systems - Isolating voltage transducers and other voltage measuring devices
IEC 62128-1:2013	Railway applications - Fixed installations - Electrical safety, earthing and the
150 00100 0 0010	return circuit - Part 1: Protective provisions against electric shock
IEC 62128-2:2013	Railway applications - Fixed installations - Electrical safety, earthing and the
	return circuit - Part 2: Provisions against the effects of stray currents caused by
	d.c. traction systems
IEC 62128-3:2013	Railway applications - Fixed installations - Electrical safety, earthing and the
	return circuit - Part 3: Mutual interaction of a.c. and d.c. traction systems
IEC 62236-1:2018	Railway applications - Electromagnetic compatibility - Part 1: General
IEC 62236-1:2018 RLV	Railway applications - Electromagnetic compatibility - Part 1: General
IEC 62236-2:2018 RLV	Railway applications - Electromagnetic compatibility - Part 2: Emission of the
	whole railway system to the outside world
IEC 62236-2:2018	Railway applications - Electromagnetic compatibility - Part 2: Emission of the
	whole railway system to the outside world
IEC 62236-3-1:2018 RLV	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock -
	Train and complete vehicle
IEC 62236-3-1:2018	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock -
	Train and complete vehicle
IEC 62236-3-2:2018	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock -
	Apparatus
IEC 62236-3-2:2018 RLV	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock -
	Apparatus
IEC 62236-4:2018	Railway applications - Electromagnetic compatibility - Part 4: Emission and
1002230-4.2010	immunity of the signalling and telecommunications apparatus





Reference	Title
IEC 62236-4:2018 RLV	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus
IEC 62236-5:2018	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus
IEC 62236-5:2018 RLV	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus
IEC 62267:2009	Railway applications - Automated urban guided transport (AUGT) - Safety requirements
IEC TR 62267-2:2011	Railway applications - Automated urban guided transport (AUGT) - Safety requirements - Part 2: Hazard analysis at top system level
IEC 62278:2002	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS)
IEC TR 62278-3:2010	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) - Part 3: Guide to the application of IEC 62278 for rolling stock RAM
IEC TR 62278-4:2016	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) - Part 4: RAM risk and RAM life cycle aspects
IEC 62279:2015	Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems
IEC 62280:2014	Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems
IEC 62290-1:2014	Railway applications - Urban guided transport management and command/control systems - Part 1: System principles and fundamental concepts
IEC 62290-2:2014	Railway applications - Urban guided transport management and command/control systems - Part 2: Functional requirements specification
IEC 62313:2009	Railway applications - Power supply and rolling stock - Technical criteria for the coordination between power supply (substation) and rolling stock
IEC 62425:2007	Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling
IEC 62427:2007	Railway applications - Compatibility between rolling stock and train detection systems
IEC 62486:2017	Railway applications - Current collection systems - Technical criteria for the interaction between pantograph and overhead contact line (to achieve free access)
IEC 62497-	Railway applications - Insulation coordination - Part 1: Basic requirements -
1:2010+AMD1:2013 CSV	Clearances and creepage distances for all electrical and electronic equipment
IEC 62497-1:2010	Railway applications - Insulation coordination - Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment
IEC 62497-	Amendment 1 - Railway applications - Insulation coordination - Part 1: Basic
1:2010/AMD1:2013	requirements - Clearances and creepage distances for all electrical and electronic equipment
IEC 62497-2:2010	Railway applications - Insulation coordination - Part 2: Over voltages and related protection
IEC 62498-1:2010	Railway applications - Environmental conditions for equipment - Part 1: Equipment on board rolling stock





Reference	Title
IEC 62498-	Corrigendum 1 - Railway applications - Environmental conditions for
1:2010/COR1:2010	equipment - Part 1: Equipment on board rolling stock
IEC 62498-2:2010	Railway applications - Environmental conditions for equipment - Part 2: Fixed electrical installations
IEC 62498-	Corrigendum 1 - Railway applications - Environmental conditions for
2:2010/COR1:2010	equipment - Part 2: Fixed electrical installations
IEC 62498-3:2010	Railway applications - Environmental conditions for equipment - Part 3: Equipment for signalling and telecommunications
IEC 62498-	Corrigendum 1 - Railway applications - Environmental conditions for
3:2010/COR1:2010	equipment - Part 3: Equipment for signalling and telecommunications
IEC 62499:2008	Railway applications - Current collection systems - Pantographs, testing methods for carbon contact strips
IEC 62505-1:2016	Railway applications - Fixed installations - Particular requirements for AC switchgear - Part 1: Circuit-breakers with nominal voltage above 1 kV
IEC 62505-2:2016	Railway applications - Fixed installations - Particular requirements for AC switchgear - Part 2: Disconnectors, earthing switches and switches with nominal voltage above 1 kV
IEC 62505-3-1:2009	Railway applications - Fixed installations - Particular requirements for a.c. switchgear - Part 3-1: Measurement, control and protection devices for specific use in a.c. tractions systems - Application guide
IEC 62505-3-2:2009	Railway applications - Fixed installations - Particular requirements for a.c. switchgear - Part 3-2: Measurement, control and protection devices for specific use in a.c. traction systems - Single-phase current transformers
IEC 62505-3-3:2009	Railway applications - Fixed installations - Particular requirements for a.c. switchgear - Part 3-3: Measurement, control and protection devices for specific use in a.c. traction systems - Single-phase inductive voltage transformers
IEC 62520:2011	Railway applications - Electric traction - Short-primary type linear induction motors (LIM) fed by power converters
IEC 62580-1:2015	Electronic railway equipment - On-board multimedia and telematic subsystems for railways - Part 1: General architecture
IEC TS 62580-2:2016	Electronic railway equipment - On-board multimedia and telematic subsystems for railways - Part 2: Video surveillance/CCTV services
IEC 62589:2010	Railway applications - Fixed installations - Harmonisation of the rated values for converter groups and tests on converter groups
IEC 62590:2010	Railway applications - Fixed installations - Electronic power converters for substations
IEC TS 62597:2011	Measurement procedures of magnetic field levels generated by electronic and electrical apparatus in the railway environment with respect to human exposure
IEC 62621:2011	Railway applications - Fixed installations - Electric traction - Specific requirements for composite insulators used for overhead contact line systems
IEC 62625-1:2013	Electronic railway equipment - On board driving data recording system - Part 1: System specification
IEC 62625-	Corrigendum 1 - Electronic railway equipment - On board driving data
1:2013/COR1:2016	recording system - Part 1: System specification





Reference	Title
IEC 62625-2:2016	Electronic railway equipment - On board driving data recording system - Part 2:
	Conformity testing
IEC 62695:2014	Railway applications - Fixed installations - Traction transformers
IEC 62718:2013	Railway applications - Rolling stock - DC supplied electronic ballasts for lighting
	fluorescent lamps
IEC 62718:2013/COR1:2016	Corrigendum 1 - Railway applications - Rolling stock - DC supplied electronic ballasts for lighting fluorescent lamps
IEC 62724:2013	Railway applications - Fixed installations - Electric traction - Insulating synthetic
	rope assemblies for support of overhead contact lines
IEC TS 62773:2014	Railway applications - Procedure to determine the performance requirements
	for radio systems applied to radio-based train control systems
IEC 62845:2015	Railway applications - Radio remote control system of traction vehicles for
	shunting application
IEC 62846:2016	Railway applications - Current collection systems - Requirements for and
	validation of measurements of the dynamic interaction between pantograph
	and overhead contact line
IEC 62847:2016	Railway applications - Rolling stock - Electrical connectors - Requirements and
	test methods
IEC 62848-1:2016	Railway applications - DC surge arresters and voltage limiting devices - Part 1:
	Metal-oxide surge arresters without gaps
IEC 62864-1:2016	Railway applications - Rolling stock - Power supply with onboard energy
	storage system - Part 1: Series hybrid system
IEC 62888-1:2018	Railway applications - Energy measurement on board trains - Part 1: General
IEC 62888-2:2018	Railway applications - Energy measurement on board trains - Part 2: Energy
	measurement
IEC 62888-3:2018	Railway applications - Energy measurement on board trains - Part 3: Data
	handling
IEC 62888-4:2018	Railway applications - Energy measurement on board trains - Part 4:
	Communication
IEC 62888-5:2018	Railway applications - Energy measurement on board trains - Part 5:
	Conformance test
IEC 62888-6:2019	Railway applications - Energy measurement on board trains - Part 6:
	Requirements for purposes other than billing
IEC 62912:2015	Railway applications - Direct current signalling monostable relays of type N and
	type C
IEC 62917:2016	Railway applications - Fixed installations - Electric traction - Copper and copper
150 02024 2017	alloy grooved contact wires
IEC 62924:2017	Railway applications - Fixed installations - Stationary energy storage system for
	DC traction systems
IEC 62928:2017	Railway applications - Rolling stock - Onboard lithium-ion traction batteries
IEC 62973-1:2018	Railway applications - Rolling stock - Batteries for auxiliary power supply systems - Part 1: General requirements
IEC 62995:2018	Railway applications - Rolling stock - Rules for installation of cabling
ILC 02333.2010	ד המוואמא מלאוורמרוסדים - ניסווווא פרסרע - נימובא וסד ווואנמוומרוסד במחוווא



Reference	Title
PNW 9-2465	Railway applications – Fixed installations – Electronic power converters for
	substations – Part 3-1: AC traction applications – Electronic power
	compensators (proposed IEC 62590-3-1)
IEC 60077-3 ED2	Railway applications - Electric equipment for rolling stock - Part 3:
	Electrotechnical components - Rules for DC circuit-breakers
IEC 60077-4 ED2	Railway applications - Electric equipment for rolling stock - Part 4:
	Electrotechnical components - Rules for AC circuit-breakers
IEC 60077-5 ED2	Railway applications - Electric equipment for rolling stock - Part 5:
	Electrotechnical components - Rules for HV fuses
IEC 61375-2-8 ED1	Electronic railway equipment - Train communication network (TCN) - Part 2-8:
	TCN conformance test
IEC 61991 ED2	Railway applications - Rolling stock - Protective provisions against electrical
	hazards
IEC 61992-6/AMD2 ED1	Amendment 2 - Railway applications - Fixed installations - DC switchgear - Part
	6: DC switchgear assemblies
IEC 62290-3 ED1	Railway applications - Urban guided transport management and
	command/control systems - Part 3: System requirements specifications
IEC 62505-3-1 ED2	Railway applications - Fixed installations - Particular requirements for a.c.
120 02303-3-1 202	switchgear - Part 3-1: Measurement, control and protection devices for
	specific use in a.c. tractions systems - Devices
IEC 62505-3-2 ED2	Railway applications - Fixed installations - Particular requirements for a.c.
TEC 02303-3-2 ED2	switchgear - Part 3-2: Measurement, control and protection devices for
	specific use in a.c. traction systems - Current transformers
IEC 62505-3-3 ED2	
IEC 02303-3-3 ED2	Railway applications - Fixed installations - Particular requirements for a.c.
	switchgear - Part 3-3: Measurement, control and protection devices for
	specific use in a.c. traction systems - Voltage transformers
IEC 62590 ED2	Railway applications - Fixed installations - Electronic power converters for
	substations
IEC 62597 ED1	Magnetic field levels generated by electronic and electrical apparatus in the
	railway environment with respect to human exposure – Measurement
	procedures
IEC 62848-2 ED1	Railway applications - Fixed installations - DC surge arresters and voltage
	limiting devices - Part 2: Voltage limiting devices
IEC 62912-2 ED1	Railway applications – Direct current signalling monostable relays – Part 2:
	Spring type relays
IEC 62973-2 ED1	Railway applications - Batteries for auxiliary power supply systems - Part 2:
	Nickel Cadmium (NiCd) batteries
IEC 62973-4 ED1	Railway applications - Rolling stock - Batteries for auxiliary power supply
	systems - Part 4: Secondary sealed nickel-metal hydride batteries
IEC 63076 ED1	Railway applications - Rolling stock - Electric equipment in trolley buses -
	Safety requirements and current collection systems
IEC 63190 ED1	Railway applications – Fixed installations – Electric traction – Copper and
	copper alloy messenger wires for overhead contact line systems





CEN/ TC 46 FIREPLACES FOR LIQUID FUELS

Scope:

Standardisation in the field of fireplaces for liquid fuels, this includes oil stoves (oil stoves with vaporising burners) and appliances operated with ethanol (liquid or gel). The standardisation covers appliance construction, performance, (e.g. efficiency and emissions), safety and commissioning requirements, together with their associated test methods and installation and operating instructions.

Published documents:

Reference	Title
EN 16647:2015	Fireplaces for liquid fuels - Decorative appliances producing a flame using alcohol based or gelatinous fuel - Use in private households

CEN/ TC 168 CHAINS, ROPES, WEBBING, SLINGS AND ACCESSORIES – SAFETY

Scope:

Standardization in terms of safety of: (i) welded round steel link chains and chain slings; (ii) steel wire ropes, their terminations and wire rope slings; (iii) fibre ropes, fibre rope slings, flat textile slings and round slings; (iv) hooks and other accessories; used for lifting (lifting includes: raising, lowering and suspending) purposes.

Reference	Title
EN 12385- 2:2002+A1:2008	Steel wire ropes - Safety - Part 2: Definitions, designation and classification
EN 12385- 4:2002+A1:2008	Steel wire ropes - Safety - Part 4: Stranded ropes for general lifting applications





CEN/ TC 226 ROAD EQUIPMENT

Scope:

To prepare specifications for safety, traffic control and other road equipment in the following fields : a) Safety fences and barriers, including guard rails, safety fences, crash barriers, crash absorbers and bridge parapets; b) Horizontal signs including road studs and road markings; c) Vertical signs including signs, cones and marker posts; d) Traffic lights including signals, traffic control and danger lamps; e) Street lighting, performance requirements only; f) Other equipment including bollards, anti-glare screens and noise protection devices.

Reference	Title
EN 1871:2000	Road marking materials - Physical properties
EN 1824:1998	Road marking materials - Road trials
EN 13197:2001	Road marking materials - Wear simulators
EN 1463-1:1997	Road marking materials - Retroflecting road studs - Part 1: Initial performance requirements
EN 12899-1:2001	Fixed, vertical road traffic signs - Part 1: Fixed signs
EN 13422:2004	Vertical road signs - Portable deformable warning devices and delineators - Portable road traffic signs - Cones and cylinders
EN 12966-1:2005	Road vertical signs - Variable message traffic signs - Part 1: Product standard
EN 12368:2000	Traffic control equipment - Signal heads
EN 12352:2000	Traffic control equipment - Warning and safety light devices
ENV 13563:2000	Traffic control equipment - Vehicle detectors
EN 12675:2000	Traffic signal controllers - Functional safety requirements
EN 1793-1:1997	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics of sound absorption
EN 1794-1:1998	Road traffic noise reducing devices - Non-acoustic performance - Part 1: Mechanical performance and stability requirements
EN 1794-2:1998	Road traffic noise reducing devices - Non-acoustic performance - Part 2: General safety and environmental requirements
EN 14389-1:2007	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 1: Acoustical characteristics





Reference	Title
CEN/TS 1793-5:2003	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 5: Intrinsic characteristics - In situ values of sound reflection
EN 12676-1:2000	and airborne sound insulation Anti-glare systems for roads - Part 1: Performance and characteristics
EN 12676-2:2000	Anti-glare systems for roads - Part 2: Test methods
EN 1317-3:2000	Road restraint systems - Part 3: Performance classes, impact test acceptance criteria and test methods for crash cushions
EN 12802:2000	Road marking materials - Laboratory methods for identification
EN 1793-2:1997	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics of airborne sound insulation
EN 1793-3:1997	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 3: Normalized traffic noise spectrum
CEN/TS 1793-4:2003	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction
EN 14389-2:2004	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 2: Non-acoustical characteristics
EN 1424:1997	Road marking materials - Premix glass beads
EN 1463-2:2000	Road marking materials - Retroreflecting road studs - Part 2: Road test performance specifications
EN 12414:1999	Vehicle parking control equipment - Pay and display ticket machine - Technical and functional requirements
EN 12767:2000	Passive safety of support structures for road equipment - Requirements and test methods
ENV 1317-4:2001	Road restraint systems - Part 4: Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barriers
EN 1317-5:2007	Road restraint systems - Part 5: Product requirements and evaluation of conformity for vehicle restraint systems
ENV 13459-1:1999	Road marking materials - Quality control - Part 1: Sampling from storage and testing
ENV 13459-2:1999	Road marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials application
ENV 13459-3:1999	Road marking materials - Quality control - Part 3: Performance in use
EN 13212:2001	Road marking materials - Requirements for factory production control
EN 14388:2005	Road traffic noise reducing devices - Specifications
EN 1423:1997/A1:2003	Road marking materials - Drop on materials - Glass beads, antiskid aggregates and mixtures of the two
EN 1463-1:1997/A1:2003	Road marking materials - Retroreflecting road studs - Part 1: Initial performance requirements
EN 1790:1998/prA1	Road marking materials - Preformed road markings
EN 1871:2000/prA1	Road marking materials - Physical properties
EN 12966-2:2005	Road vertical signs - Variable message traffic signs - Part 2: Initial type testing
EN 12966-3:2005	Road vertical signs - Variable message traffic signs - Part 3: Factory production control
EN 12368:2006	Traffic control equipment - Signal heads
EN 12352:2006	Traffic control equipment - Warning and safety light devices





Reference	Title
EN 1794-2:2003	Road traffic noise reducing devices - Non-acoustic performance - Part 2: General
	safety and environmental requirements
EN 12676-	Anti-glare screens for roads - Part 1: Performance and characteristics
1:2000/A1:2003	
EN 1794-1:2003	Road traffic noise reducing devices - Non-acoustic performance - Part 1:
	Mechanical performance and stability requirements
EN 1424:1997/A1:2003	Road marking materials - Premix glass beads
EN 1436:1997/A1:2003	Road marking materials - Road marking performance for road users
EN 1317-2:1998/A1:2006	Road restraint systems - Part 2: Performance classes, impact test acceptance
,	criteria and test methods for safety
EN 12899-1:2001/prA1	Fixed, vertical road traffic signs - Part 1: Fixed signs
EN 12899-4:2007	Fixed, vertical road traffic signs - Part 4: Factory production control
EN 12899-5:2007	Fixed, vertical road traffic signs - Part 5: Initial type testing
EN 1317-1:2010	Road restraint systems - Part 1: Terminology and general criteria for test methods
EN 1317-2:2010	Road restraint systems - Part 2: Performance classes, impact test acceptance
EN 42000 2 2007	criteria and test methods for safety barriers including vehicle parapets
EN 12899-2:2007	Fixed, vertical road traffic signs - Part 2: Transilluminated traffic bollards (TTB)
EN 12899-3:2007	Fixed, vertical road traffic signs - Part 3: Delineator posts and retroreflectors
EN 12899-1:2007	Fixed, vertical road traffic signs - Part 1: Fixed signs
EN 12767:2007	Passive safety of support structures for road equipment - Requirements,
	classification and test methods
EN 1436:2007	Road marking materials - Road marking performance for road users
EN 1317-3:2010	Road restraint systems - Part 3: Performance classes, impact test acceptance
	criteria and test methods for crash cushions
EN 1317-5:2007+A1:2008	Road restraint systems - Part 5: Product requirements and evaluation of
	conformity for vehicle restraint systems
EN 1436:2007+A1:2008	Road marking materials - Road marking performance for road users
EN 1463-1:2009	Road marking materials - Retroreflecting road studs - Part 1: Initial performance
	requirements
EN 13422:2004+A1:2009	Vertical road signs - Portable deformable warning devices and delineators -
	Portable road traffic signs - Cones and cylinders
EN 12368:2015	Traffic control equipment - Signal heads
EN 1794-1:2011	Road traffic noise reducing devices - Non-acoustic performance - Part 1:
	Mechanical performance and stability requirements
EN 1794-2:2011	Road traffic noise reducing devices - Non-acoustic performance - Part 2: General
	safety and environmental requirements
EN 1793-6:2012	Road traffic noise reducing devices - Test method for determining the acoustic
LN 1755-0.2012	performance - Part 6: Intrinsic characteristics - In situ values of airborne sound
	insulation under direct sound field conditions
EN 1793-1:2012	Road traffic noise reducing devices - Test method for determining the acoustic
EIN 1/93-1.2012	
EN 1702 2:2012	performance - Part 1: Intrinsic characteristics of sound absorption
EN 1793-2:2012	Road traffic noise reducing devices - Test method for determining the acoustic
	performance - Part 2: Intrinsic characteristics of airborne sound insulation under
	diffuse sound field conditions
EN 12966-	Road vertical signs - Variable message traffic signs - Part 1: Product standard
1:2005+A1:2009	





Reference	Title
EN 12675:2017	Traffic signal controllers - Functional safety requirements
CEN/TS 1317-8:2012	Road restraint systems - Part 8: Motorcycle road restraint systems which reduce
	the impact severity of motorcyclist collisions with safety barriers
CEN/TS 16786:2018	Road restraint systems - Truck Mounted Attenuators - Performance classes, impact
	test acceptance criteria and test performance
EN 1423:2012	Road marking materials - Drop on materials - Glass beads, antiskid aggregates and
	mixtures of the two
EN 1824:2011	Road marking materials - Road trials
EN 12802:2011	Road marking materials - Laboratory methods for identification
EN 13197:2011	Road marking materials - Wear simulator Turntable
EN 13212:2011	Road marking materials - Requirements for factory production control
EN 13459:2011	Road marking materials - Sampling from storage and testing
CEN/TR 16303-1:2012	Road restraint systems - Guidelines for computational mechanics of crash testing
	against vehicle restraint system - Part 1: Common reference information and
	reporting
CEN/TR 16303-2:2012	Road restraint systems - Guidelines for computational mechanics of crash testing
	against vehicle restraint system - Part 2: Vehicle Modelling and Verification
CEN/TR 16303-3:2012	Road restraint systems - Guidelines for computational mechanics of crash testing
	against vehicle restraint system - Part 3: Test Item Modelling and Verification
CEN/TR 16303-4:2012	Road restraint systems - Guidelines for computational mechanics of crash testing
	against vehicle restraint system - Part 4: Validation Procedures
CEN/TR 1317-6:2012	Road restraint systems - Part 6: Pedestrian restraint system - Pedestrian parapets
EN 1794-3:2016	Road traffic noise reducing devices - Non-acoustic performance - Part 3: Reaction
	to fire - Burning behaviour of noise reducing devices and classification
EN 12966:2014	Road vertical signs - Variable message traffic signs
EN 1317-5:2007+A2:2012	Road restraint systems - Part 5: Product requirements and evaluation of
	conformity for vehicle restraint systems
EN 1790:2013	Road marking materials - Preformed road markings
CEN/TS 17342:2019	Road restraint systems - Motorcycle road restraint systems which reduce the
	impact severity of motorcyclist collisions with safety barriers
EN 1436:2018	Road marking materials - Road marking performance for road users and test
	methods
EN 14389-1:2015	Road traffic noise reducing devices - Procedures for assessing long term
	performance - Part 1: Acoustical characteristics
EN 14389-2:2015	Road traffic noise reducing devices - Procedures for assessing long term
2.2013	performance - Part 2: Non-acoustical characteristics
EN 12899-	Fixed, vertical road traffic signs - Part 1: Fixed signs
1:2007+A1:2013	Theu, vertical road traine signs - Fart 1. Theu signs
EN 12899-	Fixed, vertical road traffic signs - Part 3: Delineator posts and retroreflectors
3:2007+A1:2013	They vertical road traine signs - rares. Defineator posts and renoreneetors
EN 1793-5:2016	Road traffic noise reducing devices - Test method for determining the acoustic
LIN 1700-0.2010	performance - Part 5: Intrinsic characteristics - In situ values of sound reflection
	under direct sound field conditions
EN 14388:2015	Road traffic noise reducing devices - Specifications
EN 14388.2015 EN 1793-4:2015	Road traffic noise reducing devices - Specifications
EN 1/33-4.2013	
L	performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction





Reference	Title
EN 13197:2011+A1:2014	Road marking materials - Wear simulator Turntable
EN 1793-1:2017	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics of sound absorption under diffuse sound field conditions
EN 1794-1:2018	Road traffic noise reducing devices - Non-acoustic performance - Part 1: Mechanical performance and stability requirements
CEN/TR 16958:2017	Road marking materials - Conditions for removing/masking road markings
EN 1793-6:2018	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 6: Intrinsic characteristics - In situ values of airborne sound insulation under direct sound field conditions
EN 1793-2:2018	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics of airborne sound insulation under diffuse sound field conditions
CEN/TR 16949:2016	Road restraint system - Pedestrian restraint system - Pedestrian parapets
EN 12966:2014+A1:2018	Road vertical signs - Variable message traffic signs
EN 1794-1:2018+AC:2018	Road traffic noise reducing devices - Non-acoustic performance - Part 1: Mechanical performance and stability requirements
EN 14388:2005/AC:2008	Road traffic noise reducing devices - Specifications
EN 1317- 5:2007+A2:2012/AC:2012	Road restraint systems - Part 5: Product requirements and evaluation of conformity for vehicle restraint systems
EN 1423:2012/AC:2013	Road marking materials - Drop on materials - Glass beads, antiskid aggregates and mixtures of the two
EN 1793-5:2016/AC:2018	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 5: Intrinsic characteristics - In situ values of sound reflection under direct sound field conditions

Reference	Title
FprEN 12352	Traffic control equipment - Warning and safety light devices
prEN 12966-1 rev	Road vertical signs - Variable message traffic signs - Part 1 : Product standards
prEN 12966-2 rev	Road vertical signs - Variable message traffic signs - Part 2 : Initial type testing
prEN 12966-3 rev	Road vertical signs - Variable message traffic signs - Part 3 : Factory production control
FprEN 14388 rev	Road traffic noise reducing devices - Specifications
prEN 14389-1 rev	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 1: Acoustical characteristics
prEN 1317-4	Road restraint systems - Part 4: Performance classes, impact test acceptance criteria and test methods for transitions of safety barriers
prEN 1317-7	Road restraint systems - Part 7: Performance classes, impact test acceptance criteria and test methods for terminals of safety barriers





Reference	Title
prEN 1317-5	Road restraint systems - Part 5: Product requirements, test and assessment methods and acceptance criteria
FprEN 1790	Road marking materials - Preformed road markings
FprEN 1871	Road marking materials - Paint, thermoplastic and cold plastic materials - Specifications
EN 12899-1:2007/prA1	Fixed, vertical road traffic signs - Part 1: Fixed signs
EN 12899-2:2007/prA1	Fixed, vertical road traffic signs - Part 2: Transilluminated traffic bollards (TTB)
EN 12899-3:2007/prA1	Fixed, vertical road traffic signs - Part 3: Delineator posts and retroreflectors
EN 12899-4:2007/prA1	Fixed, vertical road traffic signs - Part 4: Factory production control
EN 12899-5:2007/prA1	Fixed, vertical road traffic signs - Part 5: Initial type testing
prEN 12767	Passive safety of support structures for road equipment - Requirements and test methods
EN 1317- 5:2007+A1:2008/FprA2	Road restraint systems - Part 5: Product requirements and evaluation of conformity for vehicle restraint systems
prEN 1317-4	Road restraint systems - Part 4: Performance classes, impact test acceptance criteria and test methods for transitions and removable barrier sections
prEN 1317-7	Road restraint systems - Part 7: Performance classes, impact test acceptance criteria and test methods for terminals of safety barriers
EN 12899-4:2007/FprA1	Fixed, vertical road traffic signs - Part 4: Factory production control
EN 12899-2:2007/FprA1	Fixed, vertical road traffic signs - Part 2: Transilluminated traffic bollards (TTB)
EN 12899-3:2007/FprA1	Fixed, vertical road traffic signs - Part 3: Delineator posts and retroreflectors
prEN 1793-3 rev	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 3: Normalized traffic noise spectrum
EN 12899-1:2007/FprA1	Fixed, vertical road traffic signs - Part 1: Fixed signs
EN 12899-5:2007/FprA1	Fixed, vertical road traffic signs - Part 5: Initial type testing
FprEN 12899-6	Fixed, vertical road traffic signs - Part 6: Performance of retroreflective sign face materials
prEN 1793-4	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction
prEN 14389-1 rev	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 1: Acoustical characteristics
prEN 14389-2 rev	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 2: Non-acoustical characteristics
EN 1317-3:2010/prA1	Road restraint systems - Part 3: Performance classes, impact test acceptance criteria and test methods for crash cushions
FprEN 1424 rev	Road marking materials - Premix glass beads
FprEN 1871	Road marking materials - Paint, thermoplastic and cold plastic materials - Specifications





Reference	Title
prEN 13422 rev	Road vertical signs - Portable deformable warning devices and delineators - Cones and cylinders
EN 1317-1:2010/prA1	Road restraint systems - Part 1: Terminology and general criteria for test methods
EN 1317-2:2010/prA1	Road restraint systems - Part 2: Performance classes, impact test acceptance criteria and test methods for safety barriers including vehicle parapets
prEN 12414	Vehicle parking control equipment - Requirements and test methods for a parking terminal
prEN 1793-3 rev	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 3: Normalized traffic noise spectrum
EN 13197:2011/FprA1	Road marking materials - Wear simulator Turntable
prEN 12899-3 rev	Fixed, vertical road traffic signs - Part 3: Delineator posts and retroreflectors
prEN 12899-4 rev	Fixed, vertical road traffic signs - Part 4: Factory production control
prCEN/TR 16303-2 rev	Road restraint systems - Guidelines for computational mechanics of crash testing against vehicle restraint system - Part 2: Vehicle Modelling and Verification
prCEN/TR 16303-1 rev	Road restraint systems - Guidelines for computational mechanics of crash testing against vehicle restraint system - Part 1: Common reference information and reporting
prCEN/TR 16303-3 rev	Road restraint systems - Guidelines for computational mechanics of crash testing against vehicle restraint system - Part 3: Test Item Modelling and Verification
prCEN/TR 16303-4 rev	Road restraint systems - Guidelines for computational mechanics of crash testing against vehicle restraint system - Part 4: Validation Procedures
prEN 12899-1 rev	Fixed, vertical road traffic signs - Part 1: Fixed signs
prEN 12899-2 rev	Fixed, vertical road traffic signs - Part 2: Transilluminated traffic bollards (TTB)
prEN 12899-5 rev	Fixed, vertical road traffic signs - Part 5: Determination of the product-type based on Type- testing
	Road traffic noise reducing devices - Procedures for sustainability assessments
prEN 12899-6	Fixed, vertical road traffic signs - Part 6: Performance of retroreflective sign face materials
EN 1793-6:2012/prA1	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 6: Intrinsic characteristics - In situ values of airborne sound insulation under direct sound field conditions
EN 1793-2:2012/prA1	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics of airborne sound insulation under diffuse sound field conditions
prEN 1463-2 rev	Road marking materials - Retroreflecting road studs - Part 2: Road test performance specifications
FprEN 1424	Road marking materials - Premix glass beads
prEN 1871	Road marking materials - Paint, thermoplastic and cold plastic materials - Physical properties
prEN 12802	Road marking materials - Laboratory methods for identification





Reference	Title
prEN 1463-1 rev	Road marking materials - Retroreflecting road studs - Part 1: Initial performance requirements
	Vehicle restraint systems – Product characteristics, assessment/test methods (merging of revision of EN 1317-1, -2, -3, -4, -5 and -7)
prEN 12368	Traffic control equipment - Signal heads
prEN 16303	Road restraint systems - Validation and verification process for the use of virtual testing in crash testing against vehicle restraint system
	Road restraint systems — Determination of collision forces on bridges as a result of an impact of a vehicle on a restraint system
	Passive safety of support structures for road equipment - Design and validation procedure of bogie vehicle
prEN 1824	Road marking materials - Road trials
FprEN 14388	Road traffic noise reducing devices - Specifications
prEN 1463-3	Road marking materials - Part 3: Active road studs
FprEN 12767	Passive safety of support structures for road equipment - Requirements and test methods
prEN 1794-2	Road traffic noise reducing devices - Non-acoustic performance - Part 2: General safety and environmental requirements
prEN 1463-2 rev	Road marking materials - Retroreflecting road studs - Part 2: Road test performance specifications
prEN 13459 rev	Road marking materials - Sampling from storage and testing
prEN 12899-1-3 rev	Fixed, vertical road traffic signs - Part 1-3: Supports
prEN 12899-2 rev	Fixed, vertical road traffic signs - Part 2: Traffic bollards (TB)
prEN 12899-1-2 rev	Fixed, vertical road traffic signs - Part 1-2: Fixed Signs
prEN 12899-1-4 rev	Fixed, vertical road traffic signs - Part 1- 4: Assembled road traffic signs
prEN 12899-3 rev	Fixed, vertical road traffic signs - Part 3: Delineator posts and their retroreflectors
prEN 17383	Road traffic noise reducing devices - Sustainability : Key Sustainability Performance Indicators (KSPI) Declaration
prEN 12899-1-1	Fixed, vertical road traffic signs - Part 1-1: Performance of retroreflective sign face materials
prEN 13422	Vertical road signs - Portable deformable warning devices and delineators - Portable road traffic signs - Cones and cylinders





CEN/ TC 227 ROAD MATERIALS

Scope:

To prepare specifications, test methods, compliance criteria for materials for construction and maintenance of roads, airfields and other trafficked areas.

Published documents:

Reference	Title
EN 13108-3:2016	Bituminous mixtures - Material specifications - Part 3: Soft Asphalt
EN 13108-2:2016	Bituminous mixtures - Material specifications - Part 2: Asphalt Concrete for Very Thin Layers (BBTM)
EN 13108-1:2016	Bituminous mixtures - Material specifications - Part 1: Asphalt Concrete
EN 13108- 4:2016/AC:2017	Bituminous mixtures - Material specifications - Part 4: Hot Rolled Asphalt
EN 13108-31:2019	Bituminous mixtures - Material specifications - Part 31: Asphalt Concrete with Bituminous Emulsion
EN 13108-5:2016	Bituminous mixtures - Material specifications - Part 5: Stone Mastic Asphalt
EN 13108-6:2016	Bituminous mixtures - Material specifications - Part 6: Mastic Asphalt
EN 13108-4:2016	Bituminous mixtures - Material specifications - Part 4: Hot Rolled Asphalt
EN 13108-8:2016	Bituminous mixtures - Material specifications - Part 8: Reclaimed asphalt
EN 13108-20:2016	Bituminous mixtures - Material specifications - Part 20: Type Testing
EN 13108-7:2016	Bituminous mixtures - Material specifications - Part 7: Porous Asphalt
EN 13108-9:2016	Bituminous mixtures - Material specifications - Part 9: Asphalt for Ultra-Thin Layer (AUTL)

CEN/ TC 250 STRUCTURAL EUROCODES

Scope:

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.





Published documents:

Reference	Title
EN 1990:2002	Eurocode - Basis of structural design

CEN/ TC 250/SC 1 EUROCODE 1: ACTIONS ON STRUCTURES

Scope:

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.

Reference	Title
ENV 1991-2-1:1995	Eurocode 1 - Basis of design and actions on structures - Part 2-1: Actions on structures - Densities, self-weight and imposed loads
EN 1991-1-1:2002	Eurocode 1: Actions on structures - Part 1-1: General actions - Densities, self-weight, imposed loads for buildings
EN 1991-1-3:2003	Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads
EN 1991-1-4:2005	Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions
EN 1991-1-2:2002	Eurocode 1: Actions on structures - Part 1-2: General actions - Actions on structures exposed to fire
EN 1991-2:2003	Eurocode 1: Actions on structures - Part 2: Traffic loads on bridges
EN 1991-4:2006	Eurocode 1 - Actions on structures - Part 4: Silos and tanks
EN 1991-1-5:2003	Eurocode 1: Actions on structures - Part 1-5: General actions - Thermal actions
EN 1991-1-6:2005	Eurocode 1 - Actions on structures Part 1-6: General actions - Actions during execution
EN 1991-1-7:2006	Eurocode 1 - Actions on structures - Part 1-7: General actions - Accidental actions
EN 1991-3:2006	Eurocode 1 - Actions on structures - Part 3: Actions induced by cranes and machinery
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions
4:2005/A1:2010	
EN 1991-1-	Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads
3:2003/A1:2015	
EN 1991-1-	Eurocode 1 - Actions on structures - Part 1-7: General actions - Accidental actions
7:2006/A1:2014	





Reference	Title
CEN/TR 17231:2018	Eurocode 1: Actions on Structures - Traffic Loads on Bridges - Track-Bridge Interaction
EN 1991-1-	Eurocode 1 - Actions on structures - Part 1-6: General actions - Actions during
6:2005/AC:2008	execution
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-2: General actions - Actions on structures
2:2002/AC:2009	exposed to fire
EN 1991-1-	Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads
3:2003/AC:2009	
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-5: General actions - Thermal actions
5:2003/AC:2009	
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-1: General actions - Densities, self-weight,
1:2002/AC:2009	imposed loads for buildings
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions
4:2005/AC:2009	
EN 1991-1-	Eurocode 1 - Actions on structures - Part 1-7: General actions - Accidental actions
7:2006/AC:2010	
EN 1991-	Eurocode 1: Actions on structures - Part 2: Traffic loads on bridges
2:2003/AC:2010	
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions
4:2005/AC:2010	
EN 1991-1-	Eurocode 1 - Actions on structures - Part 1-6: General actions - Actions during
6:2005/AC:2012	execution
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-2: General actions - Actions on structures
2:2002/AC:2012	exposed to fire
EN 1991-	Eurocode 1 - Actions on structures - Part 4: Silos and tanks
4:2006/AC:2012	
EN 1991-	Eurocode 1 - Actions on structures - Part 3: Actions induced by cranes and machinery
3:2006/AC:2012	
EN 1991-1-	Eurocode 1 - Actions on structures Part 1-6: General actions - Actions during
6:2005/AC:2013	execution
EN 1991-1-	Eurocode 1: Actions on structures - Part 1-2: General actions - Actions on structures
2:2002/AC:2013	exposed to fire

Reference	Title
	Eurocode 1 - Basis of design and actions on structures - Part 2-X: Actions from currents and waves
prEN 1991-1-8	Eurocode 1: Actions on structures Actions from waves and currents on coastal structures
prEN 1991-1-9	Eurocode 1 - Actions on structures – Part 1-9: Atmospheric Icing on Structures





CEN/TC 250/SC 2 EUROCODE 2: DESIGN OF CONCRETE STRUCTURES

Scope:

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.

Reference	Title
EN 13391:2004	Mechanical tests for post-tensioning systems
EN 1992-1-1:2004	Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings
EN 1992-1-2:2004	Eurocode 2: Design of concrete structures - Part 1-2: General rules - Structural fire design
EN 1992-2:2005	Eurocode 2 - Design of concrete structures - Concrete bridges - Design and detailing rules
EN 1992-3:2006	Eurocode 2 - Design of concrete structures - Part 3: Liquid retaining and containment structures
CEN/TS 1992-4-1:2009	Design of fastenings for use in concrete - Part 4-1: General
CEN/TS 1992-4-2:2009	Design of fastenings for use in concrete - Part 4-2: Headed Fasteners
CEN/TS 1992-4-3:2009	Design of fastenings for use in concrete - Part 4-3: Anchor channels
CEN/TS 1992-4-4:2009	Design of fastenings for use in concrete - Part 4-4: Post-installed fasteners - Mechanical systems
CEN/TS 1992-4-5:2009	Design of fastenings for use in concrete - Part 4-5: Post-installed fasteners - Chemical systems
EN 1992-1-1:2004/A1:2014	Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings
EN 1992-4:2018	Eurocode 2 - Design of concrete structures - Part 4: Design of fastenings for use in concrete





Reference	Title
CEN/TR 17079:2018	Design of fastenings for use in concrete - Redundant non-structural systems
CEN/TR 17080:2018	Design of fastenings for use in concrete - Anchor channels - Supplementary rules
CEN/TR 17081:2018	Design of fastenings for use in concrete - Plastic design of fastenings with headed and post-installed fasteners
EN 1992-1-2:2004/FprA1	Eurocode 2: Design of concrete structures - Part 1-2: General rules - Structural fire design
EN 1992-1-1:2004/AC:2008	Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings
EN 1992-2:2005/AC:2008	Eurocode 2 - Design of concrete structures - Concrete bridges - Design and detailing rules
EN 1992-1-1:2004/AC:2010	Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings

Reference	Title
prEN 1992-1-6 rev	Eurocode 2: Design of concrete structures - Part 1-6: General rules - Plain concrete structures (revision of ENV 1992-1-6:1994)
	Design of fastenings for cast-in-situ and post-installed systems
EN 1992-1- 2:2004/FprA1	Eurocode 2: Design of concrete structures - Part 1-2: General rules - Structural fire design





CEN /TC 250/SC 3 EUROCODE 3- DESIGN OF STEEL STRUCTURES

Scope:

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.

Reference	Title
EN 1993-1-2:2005	Eurocode 3: Design of steel structures - Part 1-2: General rules - Structural fire design
EN 1993-1-1:2005	Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings
EN 1993-1-8:2005	Eurocode 3: Design of steel structures - Part 1-8: Design of joints
EN 1993-1-9:2005	Eurocode 3: Design of steel structures - Part 1-9: Fatigue
EN 1993-1-10:2005	Eurocode 3: Design of steel structures - Part 1-10: Material toughness and through-thickness properties
EN 1993-1-3:2006	Eurocode 3 - Design of steel structures - Part 1-3: General rules - Supplementary rules for cold-formed members and sheeting
EN 1993-1-4:2006	Eurocode 3 - Design of steel structures - Part 1-4: General rules - Supplementary rules for stainless steels
EN 1993-1-5:2006	Eurocode 3 - Design of steel structures - Part 1-5: Plated structural elements
EN 1993-2:2006	Eurocode 3 - Design of steel structures - Part 2: Steel Bridges
EN 1993-1-11:2006	Eurocode 3 - Design of steel structures - Part 1-11: Design of structures with tension components
EN 1993-3-1:2006	Eurocode 3 - Design of steel structures - Part 3-1: Towers, masts and chimneys - Towers and masts
EN 1993-3-2:2006	Eurocode 3 - Design of steel structures - Part 3-2: Towers, masts and chimneys - Chimneys





Reference	Title
EN 1993-1-6:2007	Eurocode 3 - Design of steel structures - Part 1-6: Strength and Stability of Shell Structures
EN 1993-1-7:2007	Eurocode 3 - Design of steel structures - Part 1-7: Plated structures subject to out of plane loading
EN 1993-4-1:2007	Eurocode 3 - Design of steel structures - Part 4-1: Silos
EN 1993-4-2:2007	Eurocode 3 - Design of steel structures - Part 4-2: Tanks
EN 1993-4-3:2007	Eurocode 3 - Design of steel structures - Part 4-3: Pipelines
EN 1993-5:2007	Eurocode 3 - Design of steel structures - Part 5: Piling
EN 1993-6:2007	Eurocode 3 - Design of steel structures - Part 6: Crane supporting structures
EN 1993-1-1:2005/A1:2014	Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings
EN 1993-1-4:2006/A1:2015	Eurocode 3 - Design of steel structures - Part 1-4: General rules - Supplementary rules for stainless steels
EN 1993-1-6:2007/A1:2015	Eurocode 3 - Design of steel structures - Part 1-6: Strength and Stability of Shell Structures
EN 1993-4-1:2007/A1:2015	Eurocode 3 - Design of steel structures - Part 4-1: Silos
EN 1993-4-2:2007/A1:2015	Eurocode 3 - Design of steel structures - Part 4-2: Tanks
EN 1993-1-5:2006/A1:2017	Eurocode 3 - Design of steel structures - Part 1-5: Plated structural elements
EN 1993-1-6:2007/A1:2017	Eurocode 3 - Design of steel structures - Part 1-6: Strength and Stability of Shell Structures
EN 1993-4-1:2007/A1:2017	Eurocode 3 - Design of steel structures - Part 4-1: Silos
EN 1993-4-2:2007/A1:2017	Eurocode 3 - Design of steel structures - Part 4-2: Tanks
EN 1993-1-1:2005/AC:2005	Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings
EN 1993-1- 10:2005/AC:2005	Eurocode 3: Design of steel structures - Part 1-10: Material toughness and through-thickness properties
EN 1993-1-2:2005/AC:2005	Eurocode 3: Design of steel structures - Part 1-2: General rules - Structural fire design
EN 1993-1-8:2005/AC:2005	Eurocode 3: Design of steel structures - Part 1-8: Design of joints
EN 1993-1-9:2005/AC:2005	Eurocode 3: Design of steel structures - Part 1-9: Fatigue
EN 1993-1-1:2005/AC:2006	Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings





Reference	Title
EN 1993-1-2:2005/AC:2009	Eurocode 3: Design of steel structures - Part 1-2: General rules - Structural fire design
EN 1993-1- 10:2005/AC:2009	Eurocode 3: Design of steel structures - Part 1-10: Material toughness and through-thickness properties
EN 1993-1-5:2006/AC:2009	Eurocode 3 - Design of steel structures - Part 1-5: Plated structural elements
EN 1993-1-8:2005/AC:2009	Eurocode 3: Design of steel structures - Part 1-8: Design of joints
EN 1993-1-9:2005/AC:2009	Eurocode 3: Design of steel structures - Part 1-9: Fatigue
EN 1993-4-1:2007/AC:2009	Eurocode 3 - Design of steel structures - Part 4-1: Silos
EN 1993-4-2:2007/AC:2009	Eurocode 3 - Design of steel structures - Part 4-2: Tanks
EN 1993-1-1:2005/AC:2009	Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings
EN 1993-1- 11:2006/AC:2009	Eurocode 3 - Design of steel structures - Part 1-11: Design of structures with tension components
EN 1993-1-3:2006/AC:2009	Eurocode 3 - Design of steel structures - Part 1-3: General rules - Supplementary rules for cold-formed members and sheeting
EN 1993-1-6:2007/AC:2009	Eurocode 3 - Design of steel structures - Part 1-6: Strength and Stability of Shell Structures
EN 1993-2:2006/AC:2009	Eurocode 3 - Design of steel structures - Part 2: Steel Bridges
EN 1993-3-1:2006/AC:2009	Eurocode 3 - Design of steel structures - Part 3-1: Towers, masts and chimneys - Towers and masts
EN 1993-4-3:2007/AC:2009	Eurocode 3 - Design of steel structures - Part 4-3: Pipelines
EN 1993-1-7:2007/AC:2009	Eurocode 3 - Design of steel structures - Part 1-7: Plated structures subject to out of plane loading
EN 1993-6:2007/AC:2009	Eurocode 3 - Design of steel structures - Part 6: Crane supporting structures
EN 1993-1-3:2006/AC:2009	Eurocode 3 - Design of steel structures - Part 1-3: General rules - Supplementary rules for cold-formed members and sheeting

Reference	Title
EN 1993-1-5:2006/prA2	Eurocode 3 - Design of steel structures - Part 1-5: Plated structural elements





CEN/TC 250/SC 4 EUROCODE 4: DESIGN OF COMPOSITE STEEL AND CONCRETE STRUCTURES

Scope:

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.

Published document:

Reference	Title
EN 1994-1-2:2005	Eurocode 4 - Design of composite steel and concrete structures - Part 1-2: General rules - Structural fire design
EN 1994-2:2005	Eurocode 4 - Design of composite steen and concrete structures - Part 2: General rules and rules for bridges
EN 1994-1- 2:2005/A1:2014	Eurocode 4 - Design of composite steel and concrete structures - Part 1-2: General rules - Structural fire design
EN 1994-1- 2:2005/AC:2008	Eurocode 4 - Design of composite steel and concrete structures - Part 1-2: General rules - Structural fire design
EN 1994-2:2005/AC:2008	Eurocode 4 - Design of composite steel and concrete structures - Part 2: General rules and rules for bridges

Reference	Title
prEN 1994-2 rev	Eurocode 4 - Design of composite steen and concrete structures - Part 2: General rules and rules for bridges
prEN 1994-1-1 rev	Eurocode 4: Design of composite steel and concrete structures - Part 1-1: General rules and rules for buildings
prEN 1994-1-2 rev	Eurocode 4 - Design of composite steel and concrete structures - Part 1-2: General rules - Structural fire design





Reference	Title
	Design rules for steel- Concrete-steel construction
	Design rules for the use of Composite Dowels
	Design rules for composite columns comprising high performance materials

CEN/TC 250/SC 8 EUROCODE 8: EARTHQUAKE RESISTANCE DESIGN OF STRUCTURES

Scope:

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.

Reference	Title
EN 1998-1:2004	Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings
EN 1998-5:2004	Eurocode 8: Design of structures for earthquake resistance Part 5: Foundations, retaining structures and geotechnical aspects
EN 1998-2:2005	Eurocode 8 - Design of structures for earthquake resistance - Part 2: Bridges
EN 1998-3:2005	Eurocode 8: Design of structures for earthquake resistance - Part 3: Assessment and retrofitting of buildings
EN 1998-6:2005	Eurocode 8: Design of structures for earthquake resistance - Part 6: Towers, masts and chimneys
EN 1998-4:2006	Eurocode 8 - Design of structures for earthquake resistance - Part 4: Silos, tanks and pipelines
EN 1998-2:2005/A1:2009	Eurocode 8: Design of structures for earthquake resistance - Part 2: Bridges
EN 1998-2:2005/A2:2011	Eurocode 8: Design of structures for earthquake resistance - Part 2: Bridges
EN 1998-1:2004/A1:2013	Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings





Reference	Title
EN 1998-1:2004/AC:2009	Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings.
EN 1998-2:2005/AC:2010	Eurocode 8 - Design of structures for earthquake resistance - Part 2: Bridges
EN 1998-3:2005/AC:2010	Eurocode 8: Design of structures for earthquake resistance - Part 3: Assessment and retrofitting of buildings
EN 1998-3:2005/AC:2013	Eurocode 8: Design of structures for earthquake resistance - Part 3: Assessment and retrofitting of buildings

No documents under development

CEN/TC 256 RAILWAY APPLICATIONS

Scope:

Standardization of all applications (except electrical and electronic subjects), in the field of railways, including urban transport, specifically intended for vehicles and fixed installations.

Reference	Title
EN 15016-1:2004	Technical drawings - Railway applications - Part 1: General Principles
EN 12663:2000	Railway applications - Structural requirements of railway vehicle bodies
EN ISO 3095:2005	Railway applications - Acoustics - Measurement of noise emitted by railbound vehicles (ISO 3095:2005)
EN ISO 3381:2005	Railway applications - Acoustics - Measurement of noise inside railbound vehicles (ISO 3381:2005)
EN 13674-1:2003	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above
EN 14033-1:2008	Railway applications - Track - Railbound construction and maintenance machines - Part 1: Technical requirements for running
CEN/TC 256 N 368	Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Part 1: Testing of running behaviour
EN 13103:2001	Railway applications - Wheelsets and bogies - Non-powered axles - Design method
EN 14067-1:2003	Railway applications - Aerodynamics - Part 1: Symbols and units





Reference	Title
ENV 12299:1999	Railway applications - Ride comfort for passengers - Measurement and evaluation
EN 13129-1:2002	Railway applications - Air conditioning for main line rolling stock - Part 1: Comfort parameters
EN 13129-2:2004	Railway applications - Air conditioning for main line rolling stock - Part 2 : Type tests
EN 13272:2001	Railway applications - Electrical lighting for rolling stock in public transport systems
EN 13104:2001	Railway applications - Wheelsets and bogies - Powered axles - Design method
EN 14067-2:2003	Railway applications - Aerodynamics - Part 2: Aerodynamics on open track
EN 14067-3:2003	Railway applications - Aerodynamics - Part 3: Aerodynamics in tunnels
EN 15016-2:2004	Technical drawings - Railway applications - Part 2: Parts lists
EN 15016-3:2004	Technical drawings - Railway applications - Part 3: Handling of modifications of technical documents
EN 15016-4:2006	Technical drawings - Railway applications - Part 4: Data exchange
EN 12561-1:1998	Railway applications - Tank wagons - Part 1: Marking of tank wagons for the carriage of dangerous goods
EN 12561-2:2002	Railway applications - Tank wagons - Part 2: Bottom emptying devices for liquid products including vapour return
EN 12561-3:2002	Railway applications - Tank wagons - Part 3: Bottom filling and emptying devices for gases liquefied under pressure
EN 12561-4:2002	Railway applications - Tank wagons - Part 4: Top devices for top emptying and filling of liquid products
EN 13230-1:2002	Railway applications - Track - Concrete sleepers and bearers - Part 1: General requirements
EN 13145:2001	Railway applications - Track - Wood sleepers and bearers
EN 13481-1:2002	Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions
EN 13481-2:2002	Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers
EN 13481-3:2002	Railway applications - Track - Performance requirements for fastening systems - Part 3: Fastening systems for wood sleepers
EN 13481-4:2002	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers





Reference	Title
EN 13481-5:2002	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track
ENV 13481-6:2002	Railway applications - Track - Performance requirements for fastening systems - Part 6: Special fastening systems for attenuation of vibration
EN 13481-7:2003	Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossing and check rails
EN 13232-1:2003	Railway applications - Track - Switches and crossings - Part 1: Definitions
EN 13232-2:2003	Railway applications - Track - Switches and crossings - Part 2: Requirements for geometric design
EN 13232-3:2003	Railway applications - Track - Switches and crossings - Part 3: Requirements for wheel/rail interaction
EN 12080:1998	Railway applications - Axleboxes - Rolling bearings
EN 12081:1998	Railway applications - Axleboxes - Lubricating greases
EN 12082:1998	Railway applications - Axleboxes - Performance testing
CEN/TC 256/SC 2 N 1126	Railway applications - Bogie frames - Part 1: General definitions
CEN/TC 256/SC 2 N 1126	Railway applications - Bogie frames - Part 2: Design guide
EN 13597:2003	Railway applications - Rubber suspension components - Rubber diaphragms for pneumatic suspension springs
EN 14817:2006	Railway applications - Suspension components - Air spring control elements
EN 13913:2003	Railway applications - Rubber suspension components - Elastomer-based mechanical parts
EN 13298:2003	Railway applications - Suspension components - Helical suspension springs, steel
EN 14200:2004	Railway applications - Suspension components - Parabolic springs, steel
EN 15049:2007	Railway applications - Suspension components - Torsion bar, steel
EN 13802:2004	Railway applications - Suspension components - Hydraulic dampers
EN 12561-5:2002	Railway applications - Tank wagons - Part 5: Top devices for bottom emptying and top filling of liquid products
EN 12561-6:2002	Railway applications - Tank wagons - Part 6: Manholes
EN 13674-2:2006	Railway applications - Track - Rail - Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above
EN 13674-3:2006	Railway applications - Track - Rail - Part 3: Check rails





Reference	Title
EN 14730-1:2006	Railway applications - Track - Aluminothermic welding of rails - Part 1: Approval of welding processes
EN 14730-2:2006	Railway applications - Track - Aluminothermic welding of rails - Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds
EN 14033-2:2008	Railway applications - Track - Railbound construction and maintenance machines - Part 2: Technical requirements for working
EN 13977:2005	Railway applications - Track - Safety requirements for portable machines and trolleys for construction and maintenance
EN 13230-2:2002	Railway applications - Track - Concrete sleepers and bearers - Part 2: Prestressed monoblock sleepers
EN 13230-3:2002	Railway applications - Track - Concrete sleepers and bearers - Part 3: Twin-block reinforced sleepers
EN 13146-1:2002	Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint
EN 13146-2:2002	Railway applications - Track - Test methods for fastening systems - Part 2: Determination of torsional resistance
EN 13146-3:2002	Railway applications - Track - Test methods for fastening systems - Part 3: Determination of attenuation of impact loads
EN 13146-4:2002	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of repeated loading
EN 13146-5:2002	Railway applications - Track - Test methods for fastening systems - Part 5: Determination of electrical resistance
EN 13146-6:2002	Railway applications - Track - Test methods for fastening systems - Part 6: Effect of severe environmental conditions
EN 13146-7:2002	Railway applications - Track - Test methods for fastening systems - Part 7: Determination of clamping force
EN 13146-8:2002	Railway applications - Track - Test methods for fastening systems - Part 8: In service testing
EN 13231-1:2006	Railway applications - Track - Acceptance of works - Part 1: Works on ballasted track - Plain line
EN 13231-2:2006	Railway applications - Track - Acceptance of works - Part 2: Works on ballasted track - Switches and crossings
EN 13231-3:2006	Railway applications - Track - Acceptance of works - Part 3: Acceptance of rail grinding, milling and planing work in track





Reference	Title
EN 14198:2004	Railway applications - Braking - Requirements for the brake system of trains hauled by a locomotive
EN 15179:2007	Railway applications - Braking - Requirements for the brake system of coaches
EN 13452-1:2003	Railway applications - Braking - Mass transit brake systems - Part 1: Performance requirements
EN 14535-1:2005	Railway applications - Brake discs for railway rolling stock - Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements
EN 14601:2005	Railway applications - Straight and angled end cocks for brake pipe and main reservoir pipe
EN 14531-1:2005	Railway applications - Methods for calculation of stopping distances, slowing distances and immobilization braking - Part 1: General algorithms
EN 14478:2005	Railway applications - Braking - Generic vocabulary
EN 12561-7:2004	Railway applications - Tank wagons - Part 7: Platforms and ladders
EN 12561-8:2004	Railway Applications - Tank wagons - Part 8: Heating connections
EN 14750-1:2006	Railway applications - Air conditioning for urban and suburban rolling stock - Part 1: Comfort parameters
EN 14750-2:2006	Railway applications - Air conditioning for urban and suburban rolling stock - Part 2: Type tests
EN 14813-1:2006	Railway applications - Air conditioning for driving cabs - Part 1: Comfort parameters
EN 14813-2:2006	Railway applications - Air conditioning for driving cabs - Part 2: Type tests
ENV 13803-1:2002	Railway applications - Track alignment design parameters - Track gauges 1435 mm and wider - Part 1: Plain line
EN 13230-4:2002	Railway applications - Track - Concrete sleepers and bearers - Part 4 : Prestressed bearers for switches and crossings
EN 13230-5:2002	Railway applications - Track - Concrete sleepers and bearers - Part 5 : Special elements
EN 13232-5:2005	Railway applications - Track - Switches and crossings - Part 5: Switches
EN 13232-6:2005	Railway applications - Track - Switches and crossings - Part 6: Fixed common and obtuse crossings
EN 13260:2003	Railway applications - Wheelsets and bogies - Wheelsets - Products requirements





Reference	Title
EN 13775-1:2003	Railway applications - Measuring of new and modified freight wagons - Part 1: Measuring principles
EN 13775-2:2003	Railway applications - Measuring of new and modified freight wagons - Part 2: Freight wagons with bogies
EN 13775-3:2003	Railway applications - Measuring of new and modified freight wagons - Part 3: Freight wagons with 2 wheelsets
EN 13979-1:2003	Railway applications - Wheelsets and bogies - Monobloc wheels - Technical approval procedure - Part 1: Forged and rolled wheels
EN 14752:2005	Railway applications - Bodyside entrance systems
EN 13261:2003	Railway applications - Wheelsets and bogies - Axles - Product requirements
EN 13262:2004	Railway applications - Wheelsets and bogies - Wheels - Product requirements
EN 13749:2005	Railway applications - Wheelsets and bogies - Methods of specifying structural requirements of bogie frames
EN 14865-2:2006	Railway applications - Axlebox lubricating greases - Part 2: Method to test the mechanical stability to cover vehicle speeds up to 200 km/h
EN 13674-4:2006	Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m
EN 13715:2006	Railway applications - Wheelsets and bogies - Wheels - Wheels tread
EN 13775-4:2004	Railway applications - Measuring of new and modified freight wagons - Part 4: Bogies with 2 wheelsets
EN 13775-5:2004	Railway applications - Measuring of new and modified freight wagons - Part 5: Bogies with 3 wheelsets
EN 13775-6:2004	Railway applications - Measuring of new and modified freight wagons - Part 6: Multiple and articulated freight wagons
EN 13452-2:2003	Railway applications - Braking - Mass transit brake systems - Part 2: Methods of test
EN 15227:2008	Railway applications - Crashworthiness requirements for railway vehicle bodies
CEN/TC 256	Measurement of the Axle Loads - Interoperable Rail Vehicles
EN 14067-4:2005	Railway applications - Aerodynamics - Part 4: Requirements and test procedures for aerodynamics on open track
EN 14067-5:2006	Railway applications - Aerodynamics - Part 5: Requirements and test procedures for aerodynamics in tunnels
EN 15302:2008	Railway applications - Method for determining the equivalent conicity





Reference	Title
	Railway applications - Wheel/rail interaction - Protection against derailment
EN 14811:2006	Railway applications - Track - Special purpose rail - Grooved and associated construction
EN 13803-2:2006	Railway applications - Track - Track alignment design parameters - Track gauges 1435 mm and wider - Part 2: Switches and crossings and comparable alignment design situations with abrupt changes of curvature
EN 13232-4:2005	Railway applications - Track - Switches and crossings - Part 4: Actuation, locking and detection
EN 13232-7:2006	Railway applications - Track - Switches and crossings - Part 7: Crossings with moveable parts
EN 13232-8:2007	Railway applications - Track - Switches and crossings - Part 8: Expansion devices
EN 13232-9:2006	Railway applications - Track - Switches and crossings - Part 9: Layouts
EN 13848-1:2003	Railway applications - Track - Track geometry quality - Part 1: Characterisation of track geometry
EN 13848-2:2006	Railway applications - Track - Track geometry quality - Part 2: Measuring systems - Track recording vehicles
EN 15327-1:2008	Railway applications - Passenger alarm subsystem - Part 1: General requirements and passenger interface for the passenger emergency brake system
EN 15220-1:2008	Railway applications - Brake indicators - Part 1: Pneumatically operated brake indicators
EN 15355:2008	Railway applications - Braking - Distributor valves and distributor-isolating devices
CEN/TC 256 N 408	Railway applications - Methods for calculation of stopping distances, slowing distances and immobilisation braking - Part 3: Application for Mass Transit
EN 15273-1:2009	Railway applications - Gauges - Part 1: General - Common rules for infrastructure and rolling stock
EN 15273-2:2009	Railway applications - Gauges - Part 2: Rolling stock gauge
EN 15273-3:2009	Railway applications - Gauges - Part 3: Structure gauges
EN 15020:2006	Railway applications - Rescue coupler - Performance requirements, specific interface geometry and test methods
EN 15437-1:2009	Railway applications - Axlebox condition monitoring - Interface and design requirements - Part 1: Track side equipment and rolling stock axlebox
EN 15313:2010	Railway applications - In-service wheelset operation requirements - In-service and off-vehicle wheelset maintenance





Reference	Title
EN 14363:2005	Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Testing of running behaviour and stationary tests
EN 15085-1:2007	Railway applications - Welding of railway vehicles and components - Part 1: General
EN 15085-3:2007	Railway applications - Welding of railway vehicles and components - Part 3: Design requirements
EN 15085-5:2007	Railway applications - Welding of railway vehicles and components - Part 5: Inspection, testing and documentation
EN 15380-1:2006	Railway applications - Designation system for railway vehicles - Part 1: General principles
EN 15380-2:2006	Railway applications - Designation system for railway vehicles - Part 2: Product groups
EN 15380-3:2006	Railway applications - Designation system for railway vehicles - Part 3: Designation of installation sites and locations
CEN/TC 256/SC3 171 001	Railway applications - Braking- Disc brake linings and brake shoe inserts for raile vehicles Part 1 Brake blocks
CEN/TC 256 N 185	Rail applications - Disc brake linings and brake-shoe inserts for rail vehicles - Part 4: Brake pad holders for rail vehicles
EN 13481-8:2006	Railway applications - Track - Performance requirements for fastening systems - Part 8: Fastening systems for track with heavy axle loads
EN 14969:2006	Railway applications - Track - Qualification system for railway trackwork contractors
EN 15085-2:2007	Railway applications - Welding of railway vehicles and components - Part 2: Quality requirements and certification of welding manufacturer
EN 15085-4:2007	Railway applications - Welding of railway vehicles and components - Part 4: Production requirements
EN 13260:2003/prA1	Railway applications - Wheelsets and bogies - Wheelsets - Products requirements
EN 15427:2008	Railway applications - Wheel/rail friction management - Flange lubrication
EN 15152:2007	Railway applications - Front windscreens for train cabs
EN 15153-1:2007	Railway applications - External visible and audible warning devices for high speed trains - Part 1: Head, marker and tail lamps
EN 15153-2:2007	Railway applications - External visible and audible warning devices for high speed trains - Part 2: Warning horns





Reference	Title
EN 13848-5:2008	Railway applications - Track - Track geometry quality - Part 5: Geometric quality
EN 14067 6-2010	levels
EN 14067-6:2010	Railway applications - Aerodynamics - Part 6: Requirements and test procedures for cross wind assessment
EN 13146- 8:2002/A1:2006	Railway applications - Track - Test methods for fastening systems - Part 8: In service testing
EN 13481- 1:2002/A1:2006	Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions
EN 13481- 2:2002/A1:2006	Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers
EN 13481- 3:2002/A1:2006	Railway applications - Track - Performance requirements for fastening systems - Part 3: Fastening systems for wood sleepers
EN 13481- 4:2002/A1:2006	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers
EN 13481- 5:2002/A1:2006	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track
EN 15610:2009	Railway applications - Noise emission - Rail roughness measurement related to rolling noise generation
EN 15461:2008	Railway applications - Noise emission - Characterisation of the dynamic properties of track sections for pass by noise measurements
EN 15528:2008	Railway applications - Line categories for managing the interface between load limits of vehicles and infrastructure
EN 14587-1:2007	Railway applications - Track - Flash butt welding of rails - Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant
EN 13146- 4:2002/A1:2006	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of repeated loading
EN 13481- 7:2003/A1:2006	Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossings and check rails
EN 13103:2009	Railway applications - Wheelsets and bogies - Non-powered axles - Design method
EN 13104:2009	Railway applications - Wheelsets and bogies - Powered axles - Design method
EN 13260:2009	Railway applications - Wheelsets and bogies - Wheelsets - Product requirements
EN 13261:2009	Railway applications - Wheelsets and bogies - Axles - Product requirements
EN 15611:2008	Railway applications - Braking - Relay valves





Reference	Title
EN 15612:2008	Railway applications - Braking - Brake pipe accelerator valve
EN 15624:2008	Railway applications - Braking - Empty-loaded changeover devices
EN 15595:2009	Railway applications - Braking - Wheel slide protection
EN 15625:2008	Railway applications - Braking - Automatic variable load sensing devices
EN 15551:2009	Railway applications - Railway rolling stock - Buffers
EN 15566:2009	Railway applications - Railway rolling stock - Draw gear and screw coupling
EN 12663-2:2010	Railway applications - Structural requirements of railway vehicle bodies - Part 2: Freight wagons
EN 15663:2009	Railway applications - Definition of vehicle reference masses
EN 15723:2010	Railway applications - Closing and locking devices for payload protecting devices against environmental influences - Requirements for durability, operation, indication, maintenance, recycling
EN 12080:2007	Railway applications - Axleboxes - Rolling bearings
EN 12081:2007	Railway applications - Axleboxes - Lubricating greases
EN 12082:2007	Railway applications - Axleboxes - Performance testing
EN 14865-1:2009	Railway Applications - Axlebox lubricating greases - Part 1: Method to test the ability to lubricate
EN 15437-2:2012	Railway applications - Axlebox condition monitoring - Interface and design requirements - Part 2: Performance and design requirements of on-board systems for temperature monitoring
EN 14587-2:2009	Railway applications - Track - Flash butt welding of rails - Part 2: New R220, R260, R260Mn and R350HT grade rails by mobile welding machines at sites other than a fixed plant
EN 15594:2009	Railway applications - Track - Restoration of rails by electric arc welding
EN 15734-2:2010	Railway applications - Braking systems of high speed trains - Part 2: Test methods
EN 16452:2015	Railway applications - Braking - Brake blocks
EN 15807:2011	Railway applications - Pneumatic half couplings
EN 14535-2:2011	Railway applications - Brake discs for railway rolling stock - Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements
EN 16241:2014	Railway applications - Slack adjuster





Reference	Title
EN 14531-6:2009	Railway applications - Methods for calculation of stopping and slowing distances and immobilisation braking - Part 6: Step by step calculations for train sets or
EN 15892:2011	single vehicles Railway applications - Noise Emission - Measurement of noise inside driver's cabs
EN 13848-3:2009	Railway applications - Track - Track geometry quality - Part 3: Measuring systems - Track construction and maintenance machines
EN 15746-1:2010	Railway applications - Track - Road-rail machines and associated equipment - Part 1: Technical requirements for running and working
EN 15746-2:2010	Railway applications - Track - Road-rail machines and associated equipment - Part 2: General safety requirements
EN 14033-3:2009	Railway applications - Track - Railbound construction and maintenance machines - Part 3: General safety requirements
EN 13230-1:2009	Railway applications - Track - Concrete sleepers and bearers - Part 1: General requirements
EN 13230-2:2009	Railway applications - Track - Concrete sleepers and bearers - Part 2: Prestressed monoblock sleepers
EN 13230-3:2009	Railway applications - Track - Concrete sleepers and bearers - Part 3: Twin-block reinforced sleepers
EN 13230-4:2009	Railway applications - Track - Concrete sleepers and bearers - Part 4: Prestressed bearers for switches and crossings
EN 13230-5:2009	Railway applications - Track - Concrete sleepers and bearers - Part 5: Special elements
EN 15689:2009	Railway applications - Track - Switches and crossings - Crossing components made of cast austenitic manganese steel
EN 16028:2012	Railway applications - Wheel/rail friction management - Lubricants for trainborne and trackside applications
EN 14535-3:2015	Railway applications - Brake discs for railway rolling stock - Part 3: Brake discs, performance of the disc and the friction couple, classification
EN 15806:2010	Railway applications - Braking - Static brake testing
EN 12663-1:2010	Railway applications - Structural requirements of railway vehicle bodies - Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons)
EN 13977:2005+A1:2007	Railway applications - Track - Safety requirements for portable machines and trolleys for construction and maintenance



Reference	Title
EN 13674-	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above
1:2003+A1:2007	
EN 15734-1:2010	Railway applications - Braking systems of high speed trains - Part 1: Requirements and definitions
EN 13146-9:2009	Railway applications - Track - Test methods for fastening systems - Part 9: Determination of stiffness
EN 15877-1:2012	Railway applications - Marking on railway vehicles - Part 1: Freight wagons
EN 13848-	Railway applications - Track - Track geometry quality - Part 1: Characterisation of
1:2003+A1:2008	track geometry
EN 13749:2011	Railway applications - Wheelsets and bogies - Method of specifying the structural requirements of bogie frames
EN 12299:2009	Railway applications - Ride comfort for passengers - Measurement and evaluation
CEN/TR 15874:2009	Railway applications - Noise emission - Road test of standard for rail roughness measurement EN 15610:2009
EN 13674-1:2011	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above
EN 13262:2004+A1:2008	Railway applications - Wheelsets and bogies - Wheels - Product requirements
EN 13977:2011	Railway applications - Track - Safety requirements for portable machines and trolleys for construction and maintenance
EN 14033-1:2011	Railway applications - Track - Railbound construction and maintenance machines - Part 1: Technical requirements for running
EN 16235:2013	Railway application - Testing for the acceptance of running characteristics of railway vehicles - Freight wagons - Conditions for dispensation of freight wagons with defined characteristics from on-track tests according to EN 14363
EN 15380-4:2013	Railway applications - Classification system for railway vehicles - Part 4: Function groups
EN 14587-3:2012	Railway applications - Track - Flash butt welding of rails - Part 3: Welding in association with crossing construction
EN 16185-1:2014	Railway applications - Braking systems of multiple unit trains - Part 1: Requirements and definitions
EN 16185-2:2014	Railway applications - Braking systems of multiple unit trains - Part 2: Test methods
EN ISO 3095:2013	Acoustics - Railway applications - Measurement of noise emitted by railbound vehicles (ISO 3095:2013)
EN 13272:2012	Railway applications - Electrical lighting for rolling stock in public transport systems



Reference	Title
EN 15686:2010	Railway applications - Testing for the acceptance of running characteristics of railway vehicles with cant deficiency compensation system and/or vehicles intended to operate with higher cant deficiency than stated in EN 14363:2005, Annex G
EN 15687:2010	Railway applications - Testing for the acceptance of running characteristics of freight vehicles with static axle loads higher than 225 kN and up to 250 kN
EN 16186-1:2014	Railway applications - Driver's cab - Part 1: Anthropometric data and visibility
EN 15877-2:2013	Railway applications - Markings of railway vehicles - Part 2: External markings on coaches, motive power units, locomotives and on track machines
EN 15654-2:2019	Railway applications - Measurement of vertical forces on wheels and wheelsets - Part 2: Test in workshop for new, modified and maintained vehicles
EN 14865- 2:2006+A1:2009	Railway applications - Axlebox lubricating greases - Part 2: Method to test the mechanical stability to cover vehicle speeds up to 200 km/h
EN 13979- 1:2003+A1:2009	Railway applications - Wheelsets and bogies - Monobloc wheels - Technical approval procedure - Part 1: Forged and rolled wheels
EN 14067- 4:2005+A1:2009	Railway applications - Aerodynamics - Part 4: Requirements and test procedures for aerodynamics on open track
EN 13803-1:2010	Railway applications - Track - Track alignment design parameters - Track gauges 1435 mm and wider - Part 1: Plain line
EN 13146-1:2012	Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint
EN 13146-2:2012	Railway applications - Track - Test methods for fastening systems - Part 2: Determination of torsional resistance
EN 13146-3:2012	Railway applications - Track - Test methods for fastening systems - Part 3: Determination of attenuation of impact loads
EN 13146-4:2012	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of repeated loading
EN 13146-5:2012	Railway applications - Track - Test methods for fastening systems - Part 5: Determination of electrical resistance
EN 13146-6:2012	Railway applications - Track - Test methods for fastening systems - Part 6: Effect of severe environmental conditions
EN 13146-7:2012	Railway applications - Track - Test methods for fastening systems - Part 7: Determination of clamping force
EN 13146-8:2012	Railway applications - Track - Test methods for fastening systems - Part 8: In service testing



Reference	Title
EN 13481-1:2012	Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions
EN 13481-2:2012	Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers
EN 13481-3:2012	Railway applications - Track - Performance requirements for fastening systems - Part 3: Fastening systems for wood sleepers
EN 13481-4:2012	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers
EN 13481-5:2012	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel
EN 13481-7:2012	Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossings and check rails
EN 13231-3:2012	Railway applications - Track - Acceptance of works - Part 3: Acceptance of reprofiling rails in track
EN 13848-4:2011	Railway applications - Track - Track geometry quality - Part 4: Measuring systems - Manual and lightweight devices
CEN/TS 13979-2:2011	Railway applications - Wheelsets and bogies - Monobloc wheels - Technical approval procedure - Part 2: Cast wheels
CEN/TS 15718:2011	Railway applications - Wheelsets and bogies - Product requirements for cast wheels
EN 15827:2011	Railway applications - Requirements for bogies and running gears
EN 16116-1:2013	Railway applications - Design requirements for steps, handrails and associated access for staff - Part 1: Passenger vehicles, luggage vans and locomotives
EN 16116-2:2013	Railway applications - Design requirements for steps, handrails and associated access for staff - Part 2: Freight wagons
EN 16286-1:2013	Railway applications - Gangway systems between vehicles - Part 1: Main applications
EN 15153-1:2013	Railway applications - External visible and audible warning devices for trains - Part 1: Head, marker and tail lamps
EN 15153-2:2013	Railway applications - External visible and audible warning devices for trains - Part 2: Warning horns
EN 13674- 4:2006+A1:2009	Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m



Reference	Title
EN 14811:2006+A1:2009	Railway applications - Track - Special purpose rail - Grooved and associated construction
EN 13803- 2:2006+A1:2009	Railway applications - Track - Track alignment design parameters - Track gauges 1 435 mm and wider - Part 2: Switches and crossings and comparable alignment design situations with abrupt changes of curvature
prEN 15380-5	Railway applications - Classification system for railway vehicles - Part 5: Systems, system groups, system requirements
EN 45545-1:2013	Railway applications - Fire protection on railway vehicles - Part 1: General
EN 45545-2:2013	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components
EN 45545-3:2013	Railway applications - Fire protection on railway vehicles - Part 3: Fire resistance requirements for fire barriers
EN 45545-4:2013	Railway applications - Fire protection on railway vehicles - Part 4: Fire safety requirements for rolling stock design
EN 45545-6:2013	Railway applications - Fire protection on railway vehicles - Part 6: Fire control and management systems
EN 16704-1:2016	Railway applications - Track - Safety protection on the track during work - Part 1: Railway risks and common principles for protection of fixed and mobile work sites
EN 45545-7:2013	Railway applications - Fire protection on railway vehicles - Part 7: Fire safety requirements for flammable liquid and flammable gas installations
EN 13230-1:2016	Railway applications - Track - Concrete sleepers and bearers - Part 1: General requirements
EN 16704-2-1:2016	Railway applications - Track - Safety protection on the track during work - Part 2-1: Common solutions and technologies - Technical requirements for Track Warning Systems (TWS)
EN 16704-3:2016	Railway applications - Track - Safety protection on the track during work - Part 3: Competences for personnel related to work on or near tracks
EN 13230-2:2016	Railway applications - Track - Concrete sleepers and bearers - Part 2: Prestressed monoblock sleepers
EN 16272-1:2012	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics - Sound absorption in the laboratory under diffuse sound field conditions
EN 13230-3:2016	Railway applications - Track - Concrete sleepers and bearers - Part 3: Twin-block reinforced sleepers





Reference	Title
EN 13230-4:2016	Railway applications - Track - Concrete sleepers and bearers - Part 4: Prestressed bearers for switches and crossings
EN 16272-3-1:2012	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 3-1: Normalized railway noise spectrum and single number ratings for diffuse field applications
EN 13230-5:2016	Railway applications - Track - Concrete sleepers and bearers - Part 5: Special elements
EN 15220:2016	Railway applications - Brake indicators
EN 16186-2:2017	Railway applications - Driver's cab - Part 2: Integration of displays, controls and indicators
EN 16186-3:2016	Railway applications - Driver's cab - Part 3: Design of displays
CEN/TR 16251:2016	Railway applications - Environmental conditions - Design guidance for rolling stock
EN 16272-2:2012	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics - Airborne sound insulation in the laboratory under diffuse sound field conditions
EN 13848- 5:2008+A1:2010	Railway applications - Track - Track geometry quality - Part 5: Geometric quality levels - Plain line
EN 14730- 1:2006+A1:2010	Railway applications - Track - Aluminothermic welding of rails - Part 1: Approval of welding processes
EN 13674- 3:2006+A1:2010	Railway applications - Track - Rail - Part 3: Check rails
EN 13674- 2:2006+A1:2010	Railway applications - Track - Rail - Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above
EN 14067-4:2013	Railway applications - Aerodynamics - Part 4: Requirements and test procedures for aerodynamics on open track
EN 12561-1:2011	Railway applications - Tank wagons - Part 1: Identification plates for tank wagons for the carriage of dangerous goods
EN 12561-2:2011	Railway applications - Tank wagons - Part 2: Bottom emptying devices for liquid products including vapour return
EN 12561-3:2011	Railway applications - Tank wagons - Part 3: Bottom filling and emptying devices for gases liquefied under pressure
EN 12561-4:2011	Railway applications - Tank wagons - Part 4: Devices for top filling and emptying of liquid products



Reference	Title
EN 12561-5:2011	Railway applications - Tank wagons - Part 5: Devices for vapour return while filling or emptying of liquid products
EN 12561-6:2011	Railway applications - Tank wagons - Part 6: Manholes
EN 12561-7:2011	Railway applications - Tank wagons - Part 7: Platforms and ladders
EN 12561-8:2011	Railway applications - Tank wagons - Part 8: Heating connections
EN 16334:2014	Railway applications - Passenger Alarm System - System requirements
EN 16404:2014	Railway applications - Re-railing and recovery requirements for railway vehicles
EN 16507:2014	Railway applications - Ground based service - Diesel refuelling equipment
EN 16362:2013	Railway applications - Ground based services - Water restocking equipment
EN 16860:2019	Railway applications - Requirements and general principles for securing payload in rail freight transport
EN 13231-4:2013	Railway applications - Track - Acceptance of works - Part 4: Acceptance of reprofiling rails in switches and crossings
EN ISO 3381:2011	Railway applications - Acoustics - Measurement of noise inside railbound vehicles (ISO 3381:2005)
EN 15611:2008+A1:2010	Railway applications - Braking - Relay valves
EN 15612:2008+A1:2010	Railway applications - Braking - Brake pipe accelerator valve
EN 15625:2008+A1:2010	Railway applications - Braking - Automatic variable load sensing devices
EN 15624:2008+A1:2010	Railway applications - Braking - Empty-loaded changeover devices
EN 15355:2008+A1:2010	Railway applications - Braking - Distributor valves and distributor-isolating devices
EN 14601:2005+A1:2010	Railway applications - Straight and angled end cocks for brake pipe and main reservoir pipe
EN 13103:2009+A1:2010	Railway applications - Wheelsets and bogies - Non-powered axles - Design method
EN 13104:2009+A1:2010	Railway applications - Wheelsets and bogies - Powered axles - Design method
EN 13260:2009+A1:2010	Railway applications - Wheelsets and bogies - Wheelsets - Product requirements
EN 13261:2009+A1:2010	Railway applications - Wheelsets and bogies - Axles - Product requirements
EN 13715:2006+A1:2010	Railway applications - Wheelsets and bogies - Wheels - Tread profile
EN 12080:2007+A1:2010	Railway applications - Axleboxes - Rolling bearings
EN 12081:2007+A1:2010	Railway applications - Axleboxes - Lubricating greases
EN 12082:2007+A1:2010	Railway applications - Axleboxes - Performance testing





Reference	Title
EN 14865- 1:2009+A1:2010	Railway applications - Axlebox lubricating greases - Part 1: Method to test the ability to lubricate
EN 14865- 2:2006+A2:2010	Railway applications - Axlebox lubricating greases - Part 2: Method to test the mechanical stability to cover vehicle speeds up to 200 km/h
EN 15427:2008+A1:2010	Railway applications - Wheel/rail friction management - Flange lubrication
EN 15566:2009+A1:2010	Railway applications - Railway rolling stock - Draw gear and screw coupling
EN 15551:2009+A1:2010	Railway applications - Railway rolling stock - Buffers
EN 15461:2008+A1:2010	Railway applications - Noise emission - Characterisation of the dynamic properties of track sections for pass by noise measurements
EN 15302:2008+A1:2010	Railway applications - Method for determining the equivalent conicity
EN 15227:2008+A1:2010	Railway applications - Crashworthiness requirements for railway vehicle bodies
EN 15020:2006+A1:2010	Railway applications - Rescue coupler - Performance requirements, specific interface geometry and test methods
EN 14813- 1:2006+A1:2010	Railway applications - Air conditioning for driving cabs - Part 1: Comfort parameters
EN 14813- 2:2006+A1:2010	Railway applications - Air conditioning for driving cabs - Part 2: Type tests
EN 14067- 5:2006+A1:2010	Railway applications - Aerodynamics - Part 5: Requirements and test procedures for aerodynamics in tunnels
EN 15839:2012	Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Freight wagons - Testing of running safety under longitudinal compressive forces
EN 13231-1:2013	Railway applications - Track - Acceptance of works - Part 1: Works on ballasted track - Plain line, switches and crossings
EN 17065:2018	Railway applications - Braking - Passenger coach test procedure
EN 16834:2019	Railway applications - Braking - Brake performance
CEN/TR 16891:2016	Railway applications - Acoustics - Measurement method for combined roughness, track decay rates and transfer functions
EN 15273-1:2013	Railway applications - Gauges - Part 1: General - Common rules for infrastructure and rolling stock
EN 15273-2:2013	Railway applications - Gauges - Part 2: Rolling stock gauge
EN 15273-3:2013	Railway applications - Gauges - Part 3: Structure gauges
EN 15566:2016	Railway applications - Railway rolling stock - Draw gear and screw coupling





Reference	Title
EN 16286-2:2013	Railway applications - Gangway systems between vehicles - Part 2: Acoustic measurements
EN 16584-1:2017	Railway applications - Design for PRM use - General requirements - Part 1: Contrast
EN 16584-2:2017	Railway applications - Design for PRM use - General requirements - Part 2: Information
EN 16584-3:2017	Railway applications - Design for PRM use - General requirements - Part 3: Optical and friction characteristics
EN 16585-1:2017	Railway applications - Design for PRM use - Equipment and components onboard rolling stock - Part 1: Toilets
EN 16585-2:2017	Railway applications - Design for PRM use - Equipment and components on board rolling stock - Part 2: Elements for sitting, standing and moving
EN 16585-3:2017	Railway applications - Design for PRM use - Equipment and components on board rolling stock - Part 3: Clearways and internal doors
EN 16586-1:2017	Railway applications - Design for PRM use - Accessibility of persons with reduced mobility to rolling stock - Part 1: Steps for access and egress
EN 16586-2:2017	Railway applications - Design for PRM use - Accessibility of persons with reduced mobility to rolling stock - Part 2: Boarding aids
EN 16587:2017	Railway applications - Design for PRM Use - Requirements on obstacle free routes for infrastructure
EN 13979- 1:2003+A2:2011	Railway applications - Wheelsets and bogies - Monobloc wheels - Technical approval procedure - Part 1: Forged and rolled wheels
EN 13262:2004+A2:2011	Railway applications - Wheelsets and bogies - Wheels - Product requirements
EN 15220- 1:2008+A1:2011	Railway applications - Brake indicators - Part 1: Pneumatically operated brake indicators
EN 14535- 1:2005+A1:2011	Railway applications - Brake discs for railway rolling stock - Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements
EN 15595:2009+A1:2011	Railway applications - Braking - Wheel slide protection
EN 15954-1:2013	Railway applications - Track - Trailers and associated equipment - Part 1: Technical requirements for running and working
EN 15954-2:2013	Railway applications - Track - Trailers and associated equipment - Part 2: General safety requirements





Reference	Title
EN 15955-1:2013	Railway applications - Track - Demountable machines and associated equipment - Part 1: Technical requirements for running and working
EN 15955-2:2013	Railway applications - Track - Demountable machines and associated equipment - Part 2: General safety requirements
EN 16272-6:2014	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 6: Intrinsic characteristics - In situ values of airborne sound insulation under direct sound field conditions
EN 13802:2013	Railway applications - Suspension components - Hydraulic dampers
EN 16272-3-2:2014	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 3-2: Normalized railway noise spectrum and single number ratings for direct field applications
CEN/TS 16272-5:2014	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 5: Intrinsic characteristics - In situ values of sound reflection under direct sound field conditions
EN 14531-2:2015	Railway applications - Methods for calculation of stopping and slowing distances and immobilization braking - Part 2: Step by step calculations for train sets or single vehicles
EN 16683:2015	Railway applications - Call for aid and communication device - Requirements
EN 14363:2016	Railway applications - Testing and Simulation for the acceptance of running characteristics of railway vehicles - Running Behaviour and stationary tests
EN 15380-5:2014	Railway applications - Classification system for railway vehicles - Part 5: System Breakdown Structure (SBS)
EN 15746- 1:2010+A1:2011	Railway applications - Track - Road-rail machines and associated equipment - Part 1: Technical requirements for running and working
EN 13146- 9:2009+A1:2011	Railway applications - Track - Test methods for fastening systems - Part 9: Determination of stiffness
EN 13145:2001+A1:2011	Railway applications - Track - Wood sleepers and bearers
EN 13232- 2:2003+A1:2011	Railway applications - Track - Switches and crossings - Part 2: Requirements for geometric design
EN 13232- 3:2003+A1:2011	Railway applications - Track - Switches and crossings - Part 3: Requirements for wheel/rail interaction
EN 13232- 4:2005+A1:2011	Railway applications - Track - Switches and crossings - Part 4: Actuation, locking and detection





Reference	Title
EN 13232- 5:2005+A1:2011	Railway applications - Track - Switches and crossings - Part 5: Switches
EN 13232- 6:2005+A1:2011	Railway applications - Track - Switches and crossings - Part 6: Fixed common and obtuse crossings
EN 13232- 7:2006+A1:2011	Railway applications - Track - Switches and crossings - Part 7: Crossings with moveable parts
EN 13232- 8:2007+A1:2011	Railway applications - Track - Switches and crossings - Part 8: Expansion devices
EN 13232- 9:2006+A1:2011	Railway applications - Track - Switches and crossings - Part 9: Layouts
EN 14033- 3:2009+A1:2011	Railway applications - Track - Railbound construction and maintenance machines - Part 3: General safety requirements
EN 15746- 2:2010+A1:2011	Railway applications - Track - Road-rail machines and associated equipment - Part 2: General safety requirements
EN 14033- 2:2008+A1:2011	Railway applications - Track - Railbound construction and maintenance machines - Part 2: Technical requirements for working
EN 16431:2014	Railway applications - Track - Hollow sleepers and bearers
EN 13674-2:2019	Railway applications - Track - Rail - Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above
EN 14811:2019	Railway applications - Track - Special purpose rail - Grooved rails and associated construction profiles
EN 13231-5:2018	Railway applications - Track - Acceptance of works - Part 5: Procedures for rail reprofiling in plain line, switches, crossings and expansion devices
EN 14587-1:2018	Railway applications - Infrastructure - Flash butt welding of new rails - Part 1: R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails in a fixed plant
EN 16725:2016	Railway applications - Track - Restoration and repair of manganese crossings
EN 14033-1:2017	Railway applications - Track - Railbound construction and maintenance machines - Part 1: Technical requirements for running
EN 14033-2:2017	Railway applications - Track - Railbound construction and maintenance machines - Part 2: Technical requirements for travelling and working
EN 14033-3:2017	Railway applications - Track - Railbound construction and maintenance machines - Part 3: General safety requirements





Reference	Title
EN 13674-4:2019	Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m
EN 13848-6:2014	Railway applications - Track - Track geometry quality - Part 6: Characterisation of track geometry quality
CEN/TR 16513:2014	Railway applications - Track - Survey of track geometry quality
EN 13848-5:2017	Railway applications - Track - Track geometry quality - Part 5: Geometric quality levels - Plain line, switches and crossings
EN 16451:2015	Railway applications - Braking - Brake pad holder
EN 16494:2015	Railway applications - Requirements for ERTMS Trackside Boards
EN 14531-1:2015	Railway applications - Methods for calculation of stopping and slowing distances and immobilization braking - Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles
EN 13103:2009+A2:2012	Railway applications - Wheelsets and bogies - Non-powered axles - Design method
EN 15528:2008+A1:2012	Railway applications - Line categories for managing the interface between load limits of vehicles and infrastructure
EN 16729-1:2016	Railway applications - Infrastructure - Non-destructive testing on rails in track - Part 1: Requirements for ultrasonic inspection and evaluation principles
EN 13103-1:2017	Railway applications - Wheelsets and bogies - Part 1: Design method for axles with external journals
EN 16432-2:2017	Railway applications - Ballastless track systems - Part 2: System design, subsystems and components
EN 16839:2017	Railway applications - Rolling stock - Head stock layout
EN 16910-1:2018	Railway applications - Rolling stock - Requirements for non-destructive testing on running gear in railway maintenance - Part 1: Wheelsets
EN 15528:2015	Railway applications - Line categories for managing the interface between load limits of vehicles and infrastructure
EN 14198:2016	Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives
EN 15595:2018	Railway applications - Braking - Wheel slide protection
EN 13104:2009+A2:2012	Railway applications - Wheelsets and bogies - Powered axles - Design method
EN 13803:2017	Railway applications - Track - Track alignment design parameters - Track gauges 1 435 mm and wider





Reference	Title
EN 15313:2016	Railway applications - In-service wheelset operation requirements - In-service and off-vehicle wheelset maintenance
EN 15329:2015	Railway applications - Braking - Brake block holder and brake shoe key for railway vehicles
EN 16019:2014	Railway applications - Automatic coupler - Performance requirements, specific interface geometry and test method
EN 15551:2017	Railway applications - Railway rolling stock - Buffers
EN 17069-1:2019	Railway applications - Systems and procedures for change of track gauge - Part 1: Automatic Variable Gauge Systems
CEN/TS 16635:2014	Railway application - Design for PRM Use - Equipment and Components onboard Rolling Stock - Toilets
EN 15085- 1:2007+A1:2013	Railway applications - Welding of railway vehicles and components - Part 1: General
EN 16730:2016	Railway applications - Track - Concrete sleepers and bearers with under sleeper pads
EN 16704-2-2:2016	Railway applications - Track - Safety protection on the track during work - Part 2-2: Common solutions and technology - Requirements for barriers
EN 16727-2-2:2016	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Non-acoustic performance - Part 2-2: Mechanical performance under dynamic loadings caused by passing trains - Calculation method
EN 16771:2016	Railway applications - Infrastructure - Aluminothermic welding of grooved rails
EN 13129:2016	Railway applications - Air conditioning for main line rolling stock - Comfort parameters and type tests
EN 14730-1:2017	Railway applications - Track - Aluminothermic welding of rails - Part 1: Approval of welding processes
EN 16273:2014	Railway applications - Track - Forged rail transitions
EN 16272-4:2016	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction under direct sound field
EN 14752:2015	Railway applications - Body side entrance systems for rolling stock
EN 12082:2017	Railway applications - Axleboxes - Performance testing
EN 12080:2017	Railway applications - Axleboxes - Rolling bearings





Reference	Title
EN 12081:2017	Railway applications - Axleboxes - Lubricating greases
CEN/TR 16823:2015	Railway applications - Driver's cab - Background information on anthropometric data
EN 13146-10:2017	Railway applications - Track - Test methods for fastening systems - Part 10: Proof load test for pull-out resistance
EN 16727-1:2018	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Non-acoustic performance - Part 1: Mechanical performance under static loadings - Calculation and test method
EN 13848-1:2019	Railway applications - Track - Track geometry quality - Part 1: Characterization of track geometry
CEN/TS 16272-7:2015	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 7: Extrinsic characteristics - In situ values of insertion loss
CEN/TR 16978:2016	Railway applications - Infrastructure - Survey on isolated defects
EN 15610:2019	Railway applications - Acoustics - Rail and wheel roughness measurement related to noise generation
EN 16989:2018	Railway applications - Fire protection on railway vehicles - Fire behaviour test for a complete seat
	Coding for customers in the rail transport chain
	Numbering of and coding system for trains
EN 17084:2018	Railway applications - Fire protection on railway vehicles - Toxicity test of materials and components
EN 16727-2-1:2018	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Non-acoustic performance - Part 2-1: Mechanical performance under dynamic loadings due to passing trains - Resistance to fatigue
EN 16922:2017	Railway applications - Ground based services - Vehicle waste water discharge equipment
EN 15663:2017	Railway applications - Vehicle reference masses
EN 16727-3:2017	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Non-acoustic performance - Part 3: General safety and environmental requirements
EN 13146- 1:2012+A1:2014	Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint





Reference	Title
EN 13146-	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of
4:2012+A1:2014 EN 12663- 1:2010+A1:2014	repeated loading Railway applications - Structural requirements of railway vehicle bodies - Part 1: Locomotives and passenger rolling stock (and alternative method for freight
EN 16404:2016	wagons) Railway applications - Re-railing and recovery requirements for railway vehicles
EN 14535-2:2019	Railway applications - Brake discs for railway rolling stock - Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements
EN 14535-1:2019	Railway applications - Brake discs for railway rolling stock - Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements
EN 15355:2019	Railway applications - Braking - Distributor valves and distributor-isolating devices
EN 14067-6:2018	Railway applications - Aerodynamics - Part 6: Requirements and test procedures for cross wind assessment
EN 17023:2018	Railway applications - Railway vehicle maintenance - Creation and modification of maintenance plan
CEN/TR 17039:2017	Railway applications - Technical Report about the revision of EN 14363
EN 15654-1:2018	Railway applications - Measurement of vertical forces on wheels and wheelsets - Part 1: On-track measurement sites for vehicles in service
CEN/TR 15654-3:2019	Railway applications - Measurement of vertical forces on wheels and wheelsets - Part 3: Approval and verification of on track measurement sites for vehicles in service
EN 17018:2019	Railway applications - Rolling stock maintenance - Terms and definitions
EN 14033-4:2019	Railway applications - Track - Railbound construction and maintenance machines - Part 4: Technical requirements for running, travelling and working on urban rail
CEN/TR 17320:2019	Railway applications - Infrastructure - Determination of laboratory test parameters for assessing the mechanical durability of rail fastening systems - Complementary element
EN 13146-7:2019	Railway applications - Track - Test methods for fastening systems - Part 7: Determination of clamping force and uplift stiffness
EN 13146-1:2019	Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint
EN 16951-1:2018	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Procedures for assessing long term performance - Part 1: Acoustic characteristics





Reference	Title
EN 16951-2:2018	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Procedures for assessing long term performance - Part 2: Non-acoustic characteristics
EN 16729-3:2018	Railway applications - Infrastructure - Non-destructive testing on rails in track - Part 3: Requirements for identifying internal and surface rail defects
EN 16729-4:2018	Railway applications - Infrastructure - Non-destructive testing on rails in track - Part 4: Qualification of personnel for non-destructive testing on rails
EN 14478:2017	Railway applications - Braking - Generic vocabulary
EN 15329:2019	Railway applications - Braking - Brake block holder and brake block key
EN 45545- 2:2013+A1:2015	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components
EN 45545- 5:2013+A1:2015	Railway applications - Fire protection on railway vehicles - Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles
EN 15839:2012+A1:2015	Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Freight wagons - Testing of running safety under longitudinal compressive forces
EN 16432-1:2017	Railway applications - Ballastless track systems - Part 1: General requirements
EN 17095:2019	Railway applications - Rolling stock maintenance - Maintenance records
EN 13481- 2:2012+A1:2017	Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers
EN 13481- 5:2012+A1:2017	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel
EN 16186-4:2019	Railway applications - Driver's cab - Part 4: Layout and access
EN 15153- 1:2013+A1:2016	Railway applications - External visible and audible warning devices for trains - Part 1: Head, marker and tail lamps
EN 15273- 1:2013+A1:2016	Railway applications - Gauges - Part 1: General - Common rules for infrastructure and rolling stock
EN 15273- 2:2013+A1:2016	Railway applications - Gauges - Part 2: Rolling stock gauge
EN 15273- 3:2013+A1:2016	Railway applications - Gauges - Part 3: Structure gauges
EN 16241:2014+A1:2016	Railway applications - Slack adjuster





Reference	Title
EN 13674- 1:2011+A1:2017	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above
CEN/TR 17315:2019	Railway applications - Braking - Calculations for the estimation of stopping distance for specific Wheel Slide Protection testing
EN 14363:2016+A1:2018	Railway applications - Testing and Simulation for the acceptance of running characteristics of railway vehicles - Running Behaviour and stationary tests
EN 15877- 1:2012+A1:2018	Railway applications - Marking on railway vehicles - Part 1: Freight wagons
EN 16186- 1:2014+A1:2018	Railway applications - Driver's cab - Part 1: Anthropometric data and visibility
EN 14531- 1:2015+A1:2018	Railway applications - Methods for calculation of stopping and slowing distances and immobilization braking - Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles
EN 16186- 3:2016+A1:2018	Railway applications - Driver's cab - Part 3: Design of displays
EN 14067- 4:2013+A1:2018	Railway applications - Aerodynamics - Part 4: Requirements and test procedures for aerodynamics on open track
EN 14198:2016+A1:2018	Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives
EN 15663:2017+A1:2018	Railway applications - Vehicle reference masses
EN 16452:2015+A1:2019	Railway applications - Braking - Brake blocks
EN 16922:2017+A1	Railway applications - Ground based services - Vehicle waste water discharge equipment
EN 13481- 4:2002/AC:2004	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers
ENV 13481- 6:2002/AC:2004	Railway applications - Track - Performance requirements for fastening systems - Part 6: Special fastening systems for attenuation of vibration
EN 13230- 1:2002/AC:2005	Railway applications - Track - Concrete sleepers and bearers - Part 1: General requirements
EN 15016- 2:2004/AC:2007	Technical drawings - Railway applications - Part 2: Parts lists
EN 13803- 2:2006/AC:2007	Railway applications - Track - Track alignment design parameters - Track gauges 1 435 mm and wider - Part 2: Switches and crossings and comparable alignment design situations with abrupt changes of curvature



Reference	Title
EN 15085- 3:2007/AC:2009	Railway applications - Welding of railway vehicles and components - Part 3: Design requirements
EN 15663:2009/AC:2010	Railway applications - Definition of vehicle reference masses
EN 15734- 2:2010/AC:2012	Railway applications - Braking systems of high speed trains - Part 2: Test methods
EN 15734- 1:2010/AC:2013	Railway applications - Braking systems of high speed trains - Part 1: Requirements and definitions
EN 13481- 2:2012/AC:2014	Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers
EN 12561- 3:2011/AC:2014	Railway applications - Tank wagons - Part 3: Bottom filling and emptying devices for gases liquefied under pressure
EN 15273- 1:2013+A1:2016/AC:2017	Railway applications - Gauges - Part 1: General - Common rules for infrastructure and rolling stock
EN 13146- 5:2012/AC:2017	Railway applications - Track - Test methods for fastening systems - Part 5: Determination of electrical resistance

Under development:

Reference	Title
prCEN/TS 15427-1-3	Railway applications Wheel/Rail friction management - Part 13: Equipment and Application Adhesion materials
	Railway applications - Track - Fastening systems - Part 8: Performance requirements for fastening systems for embedded rails
prEN ISO 6305-3	Railway components - Technical delivery requirements - Part 3: Steel sleepers (ISO 6305- 3:1983)
prEN 14587-1	Railway applications - Track - Flash butt welding of rails - Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant
prEN 14865-1	Railway applications - Axlebox lubricating greases - Part 1: Method to test the ability to lubricate
prEN	Railway applications - Braking systems of high speed trains - Part 1: General requirements and definitions
prEN	Railway applications - Braking systems of high speed trains - Part 2 : Performance requirements
	Railway applications - Braking systems of high speed trains - Part 2: Methods of test





Reference	Title
prEN 14531-2	Railway applications - Braking - Methods for calculation of stopping and slowing distances - Methods for calculation of immobilisation braking - Part 2: Application to single freight wagon
prEN 14531-6	Railway applications - Braking - Methods for calculation of stopping and slowing distances - Methods for calculation of immobilisation braking - Part 6: Application for High Speed Trains
prEN 15329	Railway applications - Braking - Brake block holder and brake shoe key for railway vehicles
prEN 15328	Railway applications - Braking - Brake pads
prEN 14587-2	Railway applications - Track - Flash butt welding of rails - Part 2: New R220, R260, R260Mn and R350HT
prEN 12561-1 rev	Railway applications - Tank wagons - Part 1: Marking of tank wagons for the carriage of dangerous goods
prEN 12663 rev	Railway applications - Structural requirements of railway vehicle bodies
prEN 12299	Railway applications - Ride comfort for passengers - Measurement and evaluation
prEN 13803-1	Railway applications - Track - Track alignment design parameters - Track gauges 1435 mm and wider - Part 1: Plain line
	Railway applications - Safety against derailment
prEN 13979-2	Railway applications - Wheelsets and bogies - Monobloc wheels - Technical approval procedure - Part 2: Cast wheels
prEN 15718	Railway applications - Monoblock wheel products - Cast wheels
prEN 15355	Railway applications - Braking - Brake distributor valve for rolling stock
EN 13977:2005/prA1	Railway applications - Track - Safety requirements for portable machines and trolleys for construction and maintenance
prEN 15686	Railway applications - Testing for the acceptance of running characteristics of railway vehicles with cant deficiency compensation system and/or vehicles intended to operate with higher cant deficiency than stated in EN 14363:2005, Annex G
prEN 15687	Railway applications - Testing for the acceptance of running characteristics of freight vehicles with static wheel loads higher than 112,5 kN up to 125 kN
prEN 15654-1	Railway applications - Measurement of wheel and axle loads - Part 1: Interoperable 'in- service' rail vehicles
prEN 15220-2	Railway applications - Brake indicators - Part 2: Electrical operation brake indicators
	Railway applications - Disc brake linings and brake shoe inserts for rail vehicles - Brake pad holders for rail vehicles
prEN 14531-2	Railway applications - Methods for calculation of stopping distances, slowing distances and immobilization braking - Part 2: Application to Single Freight Wagon





Reference	Title
prEN 14531-3	Railway applications - Methods for calculation of stopping distances, slowing distances and immobilization braking - Part 3: Application to mass transit
prEN 14752	Railway applications - Bodyside Entrance Systems for rolling stock
	Railway applications - End coupler
EN 13977:2005/prA2	Railway applications - Track - Safety requirements for portable machines and trolleys for construction and maintenance
	Railway Applications - Wheel/Rail Friction Management - Top-of-rail friction management
prEN 15654-2	Railway Applications - Measurement of Axle Loads - Part 2: Type approval for new and modified vehicles
prEN 12561-1	Railway applications - Tank wagons - Part 1: Identification plates for tank wagons for the carriage of dangerous goods
prEN 12561-2	Railway applications - Tank wagons - Part 2: Bottom emptying devices for liquid products including vapour return
prEN 12561-3	Railway applications - Tank wagons - Part 3: Bottom filling and emptying devices for gases liquefied under pressure
EN 13848-1:2003/prA1	Railway applications - Track - Track geometry quality - Part 1: Characterisation of track geometry
EN 13262:2004/prA1	Railway applications - Wheelsets and bogies - Wheels - Product requirement
EN 13749:2005/prA1	Railway applications - Wheelsets and bogies - Methods of specifying structural requirements of bogie frames
EN 13979-1:2003/prA1	Railway applications - Wheelsets and bogies - Monobloc wheels - Technical approval procedure - Part 1: Forged and rolled wheels
EN 14865-2:2006/prA1	Railway applications - Axlebox lubricating greases - Part 2: Method to test the mechanical stability to cover vehicle speeds up to 200 km/h
prEN 15839	Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Freight wagons - Testing of running safety under longitudinal compressive forces
prEN 12561-4	Railway applications - Tank wagons - Part 4: Top devices for top emptying and filling of liquid products
prEN 12561-5	Railway applications - Tank wagons - Part 5: Top devices for bottom emptying and top filling of liquid products
prEN 12561-6	Railway applications - Tank wagons - Part 6: Manholes
prEN 12561-7	Railway applications - Tank wagons - Part 7: Platforms and ladders
prEN 12561-8	Railway applications - Tank wagons - Part 8: Heating connections
	Railway Applications - Design requirements of steps and handrails fitted to vehicles





Reference	Title
prEN 15827-1	Railway applications - Bogies and running gear - Part 1: General principles
prEN 15827-2	Railway applications - Bogies and running gear - Part 2: Structural requirements
prEN 15827-3	Railway applications - Bogies and running gear - Part 3: Dynamic requirements
FprEN 15827-4	Railway applications - Bogies and running gear - Part 4: Maintenance requirements
	Railway Applications - Vehicle Marking - Passenger coaches and locomotives
	Railway applications - Braking - Functional and performance criteria of Electromagnetic Track Brake systems for use in railway rolling stock
prEN 15153-1 rev	Railway applications - External visible and audible warning devices - Part 1: Head, marker and tail lamps
prEN 15153-2 rev	Railway applications - External visible and audible warning devices - Part 2: Warning horns
prEN 13146-1	Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint
prEN 13146-2	Railway applications - Track - Test methods for fastening systems - Part 2: Determination of torsional resistance
prEN 13146-3	Railway applications - Track - Test methods for fastening systems - Part 3: Determination of attenuation of impact loads
prEN 13146-4	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of repeated loading
prEN 13146-5	Railway applications - Track - Test methods for fastening systems - Part 5: Determination of electrical resistance
prEN 13146-6	Railway applications - Track - Test methods for fastening systems - Part 6: Effect of severe environmental conditions
prEN 13146-7	Railway applications - Track - Test methods for fastening systems - Part 7: Determination of clamping force
prEN 13146-8	Railway applications - Track - Test methods for fastening systems - Part 8: In service testing
prEN 13481-1	Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions
prEN 13481-2	Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers
prEN 13481-3	Railway applications - Track - Performance requirements for fastening systems - Part 3: Fastening systems for wood sleepers
prEN 13481-4	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers
prEN 13481-5	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track





Reference	Title
prEN 13481-7	Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossing and check rails
prEN 15954-1	Railway applications - Track - Trailers and associated equipment - Part 1: Technical requirements for running and working
prEN 15954-2	Railway applications - Track - Trailers and associated equipment - Part 2: General safety requirements
prEN 15955-1	Railway applications - Track - Demountable machines and associated equipment - Part 1: Technical requirements for running and working
prEN 15955-2	Railway applications - Track - Demountable machines and associated equipment - Part 2: General safety requirements
EN 13674-1:2003/prA2	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above
EN 13674-2:2006/FprA1	Railway applications - Track - Rail - Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above
EN 13674-3:2006/FprA1	Railway applications - Track - Rail - Part 3: Check rails
EN 13674-4:2006/FprA1	Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m
EN 14730-1:2006/FprA1	Railway applications - Track - Aluminothermic welding of rails - Part 1: Approval of welding processes
EN 14811:2006/FprA1	Railway applications - Track - Special purpose rail - Grooved and associated construction
EN 13803-2:2006/FprA1	Railway applications - Track - Track alignment design parameters - Track gauges 1 435 mm and wider - Part 2: Switches and crossings and comparable alignment design situations with abrupt changes of curvature
FprEN 13230-6	Railway applications - Track - Concrete sleepers and bearers - Part 6: Design
EN 13232-4:2005/prA1	Railway applications - Track - Switches and crossings - Part 4: Actuation, locking and detection
EN 13232-5:2005/prA1	Railway applications - Track - Switches and crossings - Part 5: Switches
EN 13232-6:2005/prA1	Railway applications - Track - Switches and crossings - Part 6: Fixed common and obtuse crossings
EN 13232-7:2006/prA1	Railway applications - Track - Switches and crossings - Part 7: Crossings with moveable parts
EN 13232-8:2007/prA1	Railway applications - Track - Switches and crossings - Part 8: Expansion devices
EN 13232-9:2006/prA1	Railway applications - Track - Switches and crossings - Part 9: Layouts
EN 13848-5:2008/FprA1	Railway applications - Track - Track geometry quality - Part 5: Geometric quality levels - Plain line
EN 14067-4:2005/prA1	Railway applications - Aerodynamics - Part 4: Requirements and test procedures for aerodynamics on open track



Reference	Title
	Railway applications - Braking - Passenger coach test procedure
prEN 14198 rev	Railway applications - Braking - Requirements for the brake system of a train hauled by a locomotive
prEN 13129-1 rev	Railway applications - Air conditioning for main line rolling stock - Part 1: Comfort parameters
EN 15528:2008/prA1	Railway applications - Line categories for managing the interface between load limits of vehicles and infrastructure
	Railway applications - Requirements for trackside boards - Part 1: General requirements for trackside boards visibility
	Railway applications - Requirements for trackside boards - Part 2: ERTMS trackside boards
FprEN 15654-1	Railway applications - Measurement of wheel and axle loads - Part 1: Interoperable 'in-service' rail vehicles
prEN 15551 rev	Railway applications - Railway rolling stock - Buffers
prEN 13262 rev	Railway applications - Wheelsets and bogies Wheels - Product requirements
	Railway applications - Braking - Eddy current track brake systems
prEN 17149	Railway Applications - Fatigue strength assessment of railway vehicle structures based on cumulative damage
EN 12663-1:2010/prA1	Railway applications - Structural requirements of railway vehicle bodies - Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons)
prEN 13129-1 rev	Railway applications - Air conditioning for main line rolling stock - Part 1: Comfort parameters
EN 15313:2010/prA	Railway applications - In-service wheelset operation requirements - In-service and off-vehicle wheelset maintenance
EN 13848- 5:2008+A1:2010/prA2	Railway applications - Track - Track geometry quality - Part 5: Geometric quality levels - Plain line
EN 13104:2009+A1:2010/FprA2	Railway applications - Wheelsets and bogies - Powered axles - Design method
EN 13103:2009+A1:2010/FprA2	Railway applications - Wheelsets and bogies - Non-powered axles - Design method
prEN 16577	Railway applications - Track - Concrete sleepers and bearers with under sleeper pads
EN 13674-1:2011/prA1	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above





Reference	Title
prEN 14730-1 rev	Railway applications - Track - Aluninothermic welding of rails - Part 1: Approval of welding processes
	Railway applications - Track - Switches and crossings - Mechanical requirements for actuation, locking and detection systems
	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Non-acoustic performance - Part 2-2: Mechanical performance under dynamic loadings caused by passing trains - Calculation method
EN 13260:2009+A1:2010/prA2	Railway applications - Wheelsets and bogies - Wheelsets - Product requirements
	Railway applications - Wheel/Rail Friction Management - Top of Rail - Equipment and Application
prEN 13232-3 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 3: Requirements for wheel/rail interaction
prEN 13232-1	Railway applications - Track - Switches and crossings for Vignole rails - Part 1: Definitions
prEN 13232-4 rev	Railway applications - Track - Switches and crossings for Vignole raills - Part 4: Actuation, locking and detection
prEN 13232-2 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 2: Requirements for geometric design
prEN 13232-5 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 5: Switches
	Railway applications - NDT on rails in track - Part 2: Requirements for describing and identifying internal and surface rail defects
prEN 13232-6 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 6: Fixed common and obtuse crossings
prEN 13232-8 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 8: Expansion devices
prEN 13232-7 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 7: Crossings with movable parts
prEN 13232-9 rev	Railway applications - Track - Switches and crossings for Vignole rails - part 9: Layouts
	Railway applications - Track - Mechanical requirements for joints in running rails
prEN 16272-4	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic





Reference	Title
	performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction under direct sound field conditions
prEN 16432-3	Railway applications - Ballastless track systems - Part 3: Acceptance
prEN 13262 rev	Railway applications - Wheelsets and bogies - Product requirements
FprEN 15152	Railway applications - Windscreens for trains
prEN 14750-1 rev	Railway applications - Air conditioning for urban and suburban rolling stock - Part 1: Comfort parameters
prEN 13715	Railway applications - Wheelsets and bogies - Wheels - Tread profile
prEN 15654-3	Railway applications - Measurement of wheel and axle loads - Part 3: Approval and verification of interoperable local measuring sites in-service
prEN 14813-2 rev	Railway applications - Air conditioning for driving cabs - Part 2: Type tests
prEN 14750-2 rev	Railway applications - Air conditioning for urban and suburban rolling stock - Part 2: Type tests
prEN 15328	Railway applications - Braking - Brake pads
prEN ISO 3381 rev	Railway applications - Acoustics - Measurement of noise inside railbound vehicles
prEN 14813-1 rev	Railway applications - Air conditioning of driving cabs - Part 1: Comfort parameters
prEN 15746-2	Railway applications - Track - Road-rail machines and associated equipment - Part 2: General safety requirements
prEN 15746-1	Railway applications - Track - Road rail machines and associated equipment - Part 1: Technical requirements for travelling and working
EN 13146-1:2012/FprA1	Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint
EN 13146-4:2012/FprA1	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of repeated loading
EN 12663-1:2010/FprA1	Railway applications - Structural requirements of railway vehicle bodies - Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons)
prEN 13129-1 rev	Railway applications - Air conditioning for main line rolling stock - Part 1: Comfort parameters
prEN 13261 rev	Railway applications - Wheelsets and bogies - Axles - Product requirements
prEN 13262 rev	Railway applications - Wheelsets and bogies - Wheels - Product requirements





Reference	Title
prEN 13129-2 rev	Railway applications - Air conditioning for main line rolling stock - Part 2: Type tests
	Railway applications - Air conditioning for rolling stock - Safety relevant aspects
prEN 15020 rev	Railway applications - Rescue coupler - Performance requirements, specific interface geometry and test methods
prEN 15273-3	Railway applications - Gauges - Part 3: Infrastructure gauge
prEN 15273-4	Railway Applications - Gauges - Part 4: Catalogue of gauges and associated rules
FprCEN/TR 15273-5	Railway applications - Gauges - Part 5: Background, explanation and worked examples
prEN 15273-2	Railway Applications - Gauges - Part 2: Rolling stock
prEN 15302 rev	Railway applications - Method for determining the equivalent conicity
prEN 13232-5 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 5: Switches
EN 13674-1:2011/FprA1	Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above
prEN 16843	Railway applications Infrastructure - Mechanical requirements for joints in running rails
prEN 13232-3 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 3: Requirements for wheel/rail interaction
prEN 13232-2 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 2: Requirements for geometric design
prEN 13232-4 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 4: Actuation, locking and detection
prEN 13481-1 rev	Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions
EN 13481-3:2012/prA1	Railway applications - Track - Performance requirements for fastening systems - Part 3: Fastening systems for wood sleepers
EN 13481- 5:2012/FprA1:2016	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel
EN 13481-4:2012/prA1	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers
EN 13481-7:2012/prA1	Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossings and check rails





Reference	Title
prEN 13232-6 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 6: Fixed common and obtuse crossings
prEN 13232-8 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 8: Expansion devices
prEN 13232-7 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 7: Crossings with moveable parts
prEN 13232-9 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 9: Layouts
EN 45545-6:2013/prA1	Railway applications - Fire safety on railway vehicles - Part 6: Fire control and management systems
	Railway applications - Rolling stock maintenance - Creation and modification of maintenance programs
EN 45545-2:2013/FprA1	Railway applications - Fire safety on railway vehicles - Part 2: Requirements for fire behaviour of materials and components
prEN 14067-5	Railway applications - Aerodynamics - Part 5: Requirements and test procedures for aerodynamics in tunnels
prEN 14067-6 rev	Railway applications - Requirements and test procedures for cross wind assessment
FprEN 15227	Railway applications - Crashworthiness requirements for railway vehicle bodies
EN 45545-5:2013/FprA1	Railway applications - Fire protection on railway vehicles - Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles
EN 45545-1:2013/prA1	Railway applications - Fire protection on railway vehicles - Part 1: General
prEN 17318-1	Railway applications - Infrastructure - Plastic sleepers and bearers - Part 1: General requirements
prEN 17318-3	Railway applications - Infrastructure - Plastic sleepers and bearers - Part 3: Material characteristics
prEN 13481-7 rev	Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossings and check rails
prEN 13848-2	Railway applications - Track - Track geometry quality - Part 2: Measuring systems - Track recording vehicles
prEN 15746-3	Railway applications - Track - Road-rail machines and associated equipment - Part 3: Technical requirements for running
prEN 15746-4	Railway applications - Track - Road-rail machines and associated equipment - Part 4: Technical requirements for running, travelling and working on urban rail



Reference	Title
prEN 17318-2	Railway applications - Infrastructure - Plastic sleepers and bearers - Part 2: Product testing
prEN 13146-9	Railway applications - Track - Test methods for fastening systems - Part 9: Determination of stiffness
FprCEN/TR 17373	Railway applications - Railway rolling stock - Investigation of vehicles position on the reserve curve tracks during running and calculation of buffer overlap
prEN 15085-2	Railway applications - Welding of railway vehicles and components - Part 2: Requirements for welding manufacturers
prCEN/TR	Railway applications - axle design method
EN 15839:2012/FprA1	Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Freight wagons - Testing of running safety under longitudinal compressive forces
prEN 15611	Railway applications - Braking - Relay valves
prEN 15612	Railway applications - Braking - Brake pipe accelerator valve
prEN 15624 rev	Railway applications - Braking - Empty-loaded changeover devices
prEN 15625 rev	Railway applications - Braking - Automatic variable load sensing devices
prEN 17285	Railway applications - Acoustics - Measuring of door audible warnings
prEN 15302 rev	Railway Applications - Wheel-rail contact geometry parameters - Definitions and Methods for evaluation
prEN 14587-2 rev	Railway applications – Track – Flash butt welding of rails – Part 2: New R200, R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails by mobile welding machines at sites other than a fixed plant
prEN 13262 rev	Railway applications - Wheelsets and bogies - Wheels - Product requirements
prEN 16729-2	Railway applications - Infrastructure - Non-destructive testing on rails in track - Part 2: Eddy current testing of rails in track
prEN 13231-2	Railway applications - Track - Acceptance of works - Part 2: Acceptance of reprofiling rails in plain line, switches, crossings and expansion devices
prEN 17397-1	Railway applications - Rail defects - Part 1: Rail defect management
prEN 14752 rev	Railway applications - Body side entrance systems for rolling stock
EN 16241:2014/FprA1	Railway applications - Slack adjuster
FprEN 15153-1	Railway applications - External visible and audible warning devices - Part 1: Head, marker and tail lamps for heavy rail





Reference	Title
	Railway applications - Wheelsets and bogies - Part 2: Design method for axles with internal journals
FprEN 15153-2	Railway applications - External visible and audible warning devices - Part 2: Warning horns for heavy rail
prEN 13272 rev	Railway applications - Electrical lighting for rolling stock in urban rail applications
prEN 15085-4 rev	Railway applications - Welding of railway vehicles and components - Part 4: Production requirements
prEN 15085-5 rev	Railway applications - Welding of railway vehicles and components - Part 5: Inspection, testing and documentation
prEN 17168	Railway applications - Platform barrier systems
EN 15273- 3:2013/FprA1:2016	Railway applications - Gauges - Part 3: Structure gauges
EN 15273-1:2013/FprA1	Railway applications - Gauges - Part 1: General - Common rules for infrastructure and rolling stock
EN 15273-2:2013/FprA1	Railway applications - Gauges - Part 2: Rolling stock gauge
prEN 17319	Railway applications - Infrastructure - Performance requirements of rail fastening systems for tramways - Complementary element
prEN 13146-4	Railway applications - Track - Test methods for fastening systems - Part 4: Effect of repeated loading
prEN 14730-2	Railway applications - Track - Aluminothermic welding of rails - Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds
FprEN 13979-1	Railway applications - Wheelsets and bogies - Monobloc Wheels - Technical approval procedure - Part 1: Forged and rolled wheels
prEN 13261 rev	Railway applications - Wheelsets and bogies - Axles - Product requirements
prEN 15528 rev	Railway applications - Line categories for managing the interface between load limits of vehicles and infrastructure
FprEN 14752	Railway applications - Bodyside entrance systems for rolling stock
EN 16186-1:2014/prA1	Railway applications - Driver's cab - Part 1: Anthropometric data and visibility
EN 14531- 1:2015/prA1:2016	Railway applications - Methods for calculation of stopping and slowing distances and immobilization braking - Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles
prCEN/TS 13103-3	Railway applications - Wheelsets and bogies - Part 3: Design method for axles with external journals for urban rail





Reference	Title
EN 15877-1:2012/prA1	Railway applications - Marking on railway vehicles - Part 1: Freight wagons
EN 14363:2016/prA1	Railway applications - Testing and Simulation for the acceptance of running characteristics of railway vehicles - Running Behaviour and stationary tests
EN 16186-3:2016/prA1	Railway applications - Driver's cab - Part 3: Design of displays
EN 14067- 4:2013/prA1:2017	Railway applications - Aerodynamics - Part 4: Requirements and test procedures for aerodynamics on open track
FprEN 15153-3	Railway applications - External visible and audible warning devices - Part 3: Visible warning devices for urban rail
FprEN 15153-4	Railway applications - External visible and audible warning devices - Part 4: Audible warning devices for urban rail
FprEN 13272-1	Railway applications - Electrical lighting for rolling stock in public transport systems - Part 1: Heavy Rail
FprEN 13272-2	Railway applications - Electrical lighting for rolling stock in public transport systems - Part 2: Urban rail
prEN 13232-5 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 5: Switches
prEN 13232-2 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 2: Requirements for geometric design
prEN 13232-9 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 9: Layouts
prEN 13232-4 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 4: Actuation, locking and detection
prEN 13232-8 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 8: Expansion devices
prEN 13232-1 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 1: Definitions
prEN 13232-6 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 6: Fixed common and obtuse crossings
prEN 13232-7 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 7: Crossings with moveable parts
prEN 13232-3 rev	Railway applications - Track - Switches and crossings for Vignole rails - Part 3: Requirements for wheel/rail interaction
prEN 15085-3 rev	Railway applications - Welding of railway vehicles and components - Part 3: Design requirements





Reference	Title
prEN 13848-3 rev	Railway applications - Track - Track geometry quality - Part 3: Measuring systems - Track construction and maintenance machines
EN 14198:2016/prA1	Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives
EN 16452:2015/FprA1	Railway applications - Braking - Brake blocks
prEN 17343	Railway applications - General terms and definitions
prEN 15302	Railway Applications - Wheel-rail contact geometry parameters - Definitions and methods for evaluation
prEN 13262	Railway applications - Wheelsets and bogies - Wheels - Product requirements
prEN 13261	Railway applications - Wheelsets and bogies - Axles - Product requirements
prEN 13260	Railway applications - Wheelsets and bogies - Wheelsets - Product requirements
prEN 13715	Railway applications - Wheelsets and bogies - Wheels - Tread profile
prEN 15807	Railway applications - Pneumatic half couplings
prEN 16186-5	Railway applications - Driver's cab - Part 5: External visibility for tram vehicles
prEN 16116-2 rev	Railway applications - Design requirements for steps, handrails and associated access for staff - Part 2: Freight wagons
prEN 15551	Railway applications - Railway rolling stock - Buffers
prEN 16334-2	Railway applications - Passenger alarm system - Part 2: System requirements for urban rail
prEN 15020	Railway applications - Rescue coupler - Performance requirements, specific interface geometry and test methods
prEN 16116-1 rev	Railway applications - Design requirements for steps, handrails and associated access for staff - Part 1: Passenger vehicles, luggage vans and locomotives
prEN 15566	Railway applications - Railway Rolling stock - Draw gear and screw coupling
prEN 15827 rev	Railway applications - Requirements for bogies and running gears
prEN 17282	Railway applications - Infrastructure - Under ballast mats
EN 15663:2017/prA1	Railway applications - Vehicle reference masses
prEN 15016-4 rev	Technical drawings - Railway applications - Part 4: Data exchange
prEN 15016-1 rev	Technical drawings - Railway applications - Part 1: General Principles
prEN 15016-3 rev	Technical drawings - Railway applications - Part 3: Handling of modifications of technical documents





Reference	Title
prEN 15016-2 rev	Technical drawings - Railway applications - Part 2: Parts lists
prEN 45545-2	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components
prEN 15328	Railway applications - Braking - Brake pads
EN 13230-1:2016/prA1	Railway applications - Track - Concrete sleepers and bearers - Part 1: General requirements
prEN 16272-1 rev	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics - Sound absorption in the laboratory under diffuse sound field conditions
prEN 13848-4 rev	Railway applications - Track - Track geometry quality - Part 4: Measuring systems - Manual and lightweight devices
prEN 13481-4 rev	Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers
prEN 13481-5 rev	Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel
prEN 15427 rev	Railway applications - Wheel/Rail friction management - Part 1-1: Equipment and Application – Flange Lubrication
prEN 16028 rev	Railway applications - Wheel/Rail friction management- Part 2-1: Properties and Characteristics - Flange lubricants
prEN 16839 rev	Railway applications - Rolling stock - Head stock layout
FprEN 15746-1	Railway applications - Track - Road-rail machines and associated equipment - Part 1: Technical requirements for travelling and working
FprEN 15746-2	Railway applications - Track - Road-rail machines and associated equipment - Part 2: General safety requirements
FprEN 15746-3	Railway applications - Track - Road-rail machines and associated equipment - Part 3: Technical requirements for running
FprEN 15746-4	Railway applications - Track - Road-rail machines and associated equipment - Part 4: Technical requirements for running, travelling and working on urban rail
prEN 15624	Railway applications - Braking - Empty-loaded changeover devices
prEN 15625	Railway applications - Braking - Automatic variable load sensing devices
prEN 13452-2 rev	Railway applications - Braking - Mass transit brake systems - Part 2: Methods of test





Reference	Title
prEN 13452-1 rev	Railway applications - Braking - Mass transit brake systems - Part 1: Performance requirements
prEN 17355	Railway applications - Communication device for urban rail - System requirements
prEN 13232-6 rev	Railway applications - Infrastructure - Switches and crossings - Part 6: Fixed common and obtuse crossings
prEN 13232-1 rev	Railway applications - Infrastructure - Switches and crossings - Part 1: Definitions
prEN 13232-9 rev	Railway applications - Infrastructure - Switches and crossings - Part 9: Layouts
prEN 13232-2 rev	Railway applications - Infrastructure - Switches and crossings - Part 2: Requirements for geometric design
prEN 13232-4 rev	Railway applications - Infrastructure - Switches and crossings - Part 4: Actuation, locking and detection
prEN 13232-7 rev	Railway applications - Infrastructure - Switches and crossings - Part 7: Crossings with moveable parts
prEN 13232-8 rev	Railway applications - Infrastructure - Switches and crossings - Part 8: Expansion devices
prEN 13232-3 rev	Railway applications - Infrastructure - Switches and crossings - Part 3: Requirements for wheel/rail interaction
prEN 13232-5 rev	Railway applications - Infrastructure - Switches and crossings - Part 5: Switches
prEN ISO 3095	Acoustics - Railway applications - Measurement of noise emitted by railbound vehicles
prEN ISO 3381 rev	Railway applications - Acoustics - Measurement of noise inside railbound vehicles
prEN 13749 rev	Railway applications - Wheelsets and bogies - Method of specifying the structural requirements of bogie frames
prEN 16186-8	Railway applications - Driver's cab - Part 8: Tram vehicle layout and access
prEN 16186-6	Railway applications - Driver's cab - Part 6: Working environment in tram vehicles
prEN 12299 rev	Railway applications - Ride comfort for passengers - Measurement and evaluation
prCEN/TS 15427-1-3	Railway applications Wheel/Rail friction management - Part 13: Equipment and Application Adhesion materials





CEN/TC 262 METALLIC AND OTHER INORGANIC COATINGS, INCLUDING FOR CORROSION PROTECTION AND CORROSION TESTING OF METALS AND ALLOYS

Scope:

Standardization in the field of metallic and other inorganic coatings, for corrosion protection of metals and for decorative and engineering purposes.

Published documents:

Reference	Title
EN ISO 9223:2012	Corrosion of metals and alloys - Corrosivity of atmospheres - Classification, determination and estimation (ISO 9223:2012)
EN ISO 9227:2017	Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017)
EN ISO 1461:2009	Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods (ISO 1461:2009)

CEN/TC 278 Intelligent transport systems

Scope:

Standardization in the field of telematics to be applied to road traffic and transport, including those elements that need technical harmonization for intermodal operation in the case of other means of transport. It shall support a.o.:

- Vehicle, container, swap body and goods wagon identification;
- Communication between vehicles and road infrastructure;
- Communication between vehicles;
- Vehicle man machine interfacing as far as telematics is concerned;
- Traffic and parking management;





- User fee collection;
- Public transport management;
- User information.

Published documents:

Reference	Title
ENV 13093:1998	Public transport - Road vehicles - Driver's console mechanical interface requirements - Minimum display and keypad parameters
ENV 12796:1997	Road transport and traffic telematics - Public transport - Validators
ENV 13998:2001	Road transport and traffic telematics - Public transport - Non-interactive dynamic passenger information on ground
CEN ISO/TS 17262:2003	Automatic vehicle and equipment identification - Intermodal goods transport - Numbering and data structures (ISO/TS 17262:2003)
CEN ISO/TS 17263:2003	Automatic vehicle and equipment identification - Intermodal goods transport - System parameters (ISO/TS 17263:2003)
CEN ISO/TS 17261:2005	Intelligent transport systems - Automatic vehicle and equipment identification - Intermodal good transport architecture and terminology (ISO/TS 17261:2005)
ENV 13106-1:1998	Road Transport and Traffic Telematics - Traffic and Travel Data Dictionary - Part 1: General Definitions, Entities, Attributes
ENV 12253:1997	Road Transport and Traffic Telematics (RTTT) - Dedicated Short Range Communication (DSRC) - Physical Layer using Microwave at 5.8 GHz
CEN/TC 278 N 739	Road Transport and Traffic Telematics - Freight and Fleet Management Systems (FFMS) - Reference architecture and terminology - Part 1: High level architecture and terms
CEN/TS 15213-2:2006	Road transport and traffic telematics - After-theft systems for the recovery of stolen vehicles - Part 2: Common status message elements
ENV 12313-1:1998	Traffic and Traveller Information (TTI) - TTI Messages via Traffic Message Coding - Part 1: Coding Protocol for Radio Data System - Traffic Message Channel (RDS-TMC) (RDS-TMC using ALERT C) Version 3.0
EN ISO 15008:2003	Road vehicles - Ergonomic aspects of transport information and control systems - Specifications and compliance procedures for in-vehicle visual presentation (ISO 15008:2003)
EN ISO 15005:2002	Road vehicles - Ergonomic aspects of transport information and control systems - Dialogue management principles and compliance procedures (ISO 15005:2002)





Reference	Title
CEN ISO/TS 14907-2:2006	Road transport and traffic telematics - Electronic fee collection - Test procedures for user and fixed equipment - Part 2: Conformance test for the onboard unit application interface (ISO/TS 14907-2:2006)
CEN ISO/TS 17574:2004	Road transport and traffic telematics - Electronic Fee Collection (EFC) - Guidelines for EFC security protection profiles
ENV 13372:1999	Road Traffic and Transport Telematics (RTTT) - Dedicated Short-Range Communication (DSRC) - DSRC Profiles for RTTT Applications
EN ISO 14819-1:2003	Traffic and Travel Information (TTI) - TTI Messages via traffic message coding - Part 1: Coding protocol for Radio Data System - Traffic Message Channel (RDS- TMC) using ALERT-C (ISO 14819-1:2003)
EN ISO 14819-2:2003	Traffic and Traveller Information (TTI) - TTI Messages via traffic message coding - Part 2: Event and information codes for Radio Data System - Traffic Message Channel (RDS-TMC) (ISO 14819-2:2003)
CEN ISO/TS 17573:2003	Road Transport and Traffic Telematics - Electronic Fee Collection (EFC) - System architecture for vehicle related transport services (ISO/TS 17573:2003)
ENV ISO 14819-3:2000	Traffic and Travel Information (TTI) - TTI Messages via traffic message coding - Part 3: Location referencing for ALERT-C (ISO/TS 14819-3:2000)
ENV 12313-4:2000	Traffic and Traveller Information (TTI) - TTI Messages via Traffic Message Coding - Part 4: Coding Protocol for Radio Data System - Traffic Message Channel (RDS-TMC) - RDS-TMC using ALERT Plus with ALERT C
ENV 13106:2000	Road transport and traffic telematics - DATEX traffic and travel data dictionary (version 3.1a)
ENV 13149-2:2000	Public transport - Road vehicle scheduling and control systems - Part 2: WORLDFIP cabling specifications
prENV 13149-3	Public transport - Road vehicle scheduling and control systems - Part 3: WORLDFIP message content
ENV 13149-4:2002	Public transport - Road vehicle scheduling and control systems - Part 4: General application rules for CANopen transmission busses
ENV 13149-5:2002	Public transport - Road vehicle scheduling and control systems - Part 5: CANopen cabling specifications
CEN/TS 13149-6:2005	Public transport - Road vehicle scheduling and control systems - Part 6: CAN message content
ISO 17264	Road Transport and Traffic Telematics - Automatic Vehicle and Equipment Identification (AVI/AEI) - AVI/AEI Interfaces
EN ISO 17287:2003	Road vehicles - Ergonomic aspects of transport information and control systems - Procedure for assessing suitability for use while driving (ISO 17287:2003)





Reference	Title
CEN/TS 14821-1:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 1: General specifications
CEN/TS 14821-2:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 2: Numbering and ADP messsage header
CEN/TS 14821-3:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 3: Basic information elements
CEN/TS 14821-4:2003	Traffic and Travel information (TTI) - TTI messages via cellular networks - Part 4: Service-independent protocols
CEN/TS 14821-5:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 5: Internal services
CEN/TS 14821-6:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 6: External services
CEN/TS 14821-7:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 7: Performance requirements for onboard positioning
CEN/TS 14821-8:2003	Traffic and Travel Information (TTI) - TTI messages via cellular networks - Part 8: GSM-specific parameters
EN ISO 14825:2004	Intelligent transport systems - Geographic Data Files (GDF) - Overall data specification (ISO 14825:2004)
ENV ISO 14904:2002	Road transport and traffic telematics - Electronic fee collection (EFC) - Interface specification for clearing between operators (ISO/TS 14904:2002)
EN 12896:2006	Road transport and traffic telematics - Public transport - Reference data model
EN 12253:2004	Road transport and traffic telematics - Dedicated short-range communication - Physical layer using microwave at 5,8 GHz
EN 12795:2003	Road transport and traffic telematics - Dedicated Short Range Communication (DSRC) - DSRC data link layer: medium access and logical link control
EN 12834:2003	Road transport and traffic telematics - Dedicated Short Range Communication (DSRC) - DSRC application layer
EN 13372:2004	Road Transport and Traffic Telematics (RTTT) - Dedicated short-range communication - Profiles for RTTT applications
CEN ISO/TS 18234-1:2006	Traffic and Travel Information (TTI) - TTI via Transport Protocol Expert Group (TPEG) data-streams - Part 1: Introduction, Numbering and Versions (ISO/TS 18234-1:2006)
CEN ISO/TS 18234-2:2006	Traffic and Traveller Information (TTI) - TTI via Transport Protocol Expert Group (TPEG) data-streams - Part 2: Syntax, Semantics and Framing Structure (SSF) (ISO/TS 18234-2:2006)



Reference	Title
CEN ISO/TS 18234-3:2006	Traffic and Travel Information (TTI) - TTI via Transport Protocol Expert Group (TPEG) data-streams - Part 3: Service and Network Information (SNI) application (ISO/TS 18234-3:2006)
CEN ISO/TS 18234-4:2006	Traffic and Travel Information (TTI) - TTI via Transport Protocol Expert Group (TPEG) data-streams - Part 4: Road Traffic Message (RTM) application (ISO/TS 18234-4:2006)
EN ISO 14819-3:2004	Traffic and Travel Information (TTI) - TTI messages via traffic message coding - Part 3: Location referencing for ALERT-C (ISO 14819-3:2004)
EN ISO 14906:2004	Road transport and traffic telematics - Electronic fee collection - Application interface definition for dedicated short-range communication (ISO 14906:2004)
EN ISO 14814:2006	Road transport and traffic telematics - Automatic vehicle and equipment identification - Reference architecture and terminology (ISO 14814:2006)
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EN ISO 14815:2005	Road transport and traffic telematics - Automatic vehicle and equipment identification - System specifications (ISO 14815:2005)
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Reference	Title
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Reference	Title
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Reference	Title
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CEN/TS 17184:2018	Intelligent transport systems - eSafety - eCall High level application Protocols (HLAP) using IMS packet switched networks
CEN/TS 17182:2018	Intelligent transport systems - eSafety - eCall via an ITS-station
CEN/TR 17143:2017	Intelligent transport systems - Standards and actions necessary to enable urban infrastructure coordination to support Urban-ITS
CEN ISO/TS 21719-1:2018	Electronic fee collection - Personalization of on-board equipment (OBE) - Part 1: Framework (ISO/TS 21719-1:2018)
CEN ISO/TS 21719-2:2018	Electronic fee collection - Personalization of on-board equipment (OBE) - Part 2: Using dedicated short-range communication (ISO/TS 21719-2:2018)
EN ISO 17423:2018	Intelligent transport systems - Cooperative systems - Application requirements and objectives (ISO 17423:2018)
CEN/TS 17240:2018	Intelligent transport systems - ESafety - ECall end to end conformance testing for IMS packet switched based systems
CEN/TS 17234:2018	Intelligent transport systems - eSafety - eCall: Tests to enable PSAPs to demonstrate conformance and performance
CEN/TR 17249-1:2018	Intelligent transport systems - eSafety - Part 1: Extending eCall to other categories of vehicle
CEN/TS 17249-2:2018	Intelligent transport systems - eSafety - Part 2 : eCall for HGVs and other commercial vehicles
CEN/TS 17249-3:2018	Intelligent transport systems - eSafety - Part 3: eCall for Coaches and buses
CEN/TS 17249-4:2019	Intelligent transport systems - eSafety - Part 4: eCall for UNECE Category T, R, S agricultural/forestry vehicles
CEN/TS 17268:2018	Intelligent transport systems - ITS spatial data - Data exchange on changes in road attributes
EN ISO 14819- 1:2003/AC:2004	Traffic and Travel Information (TTI) - TTI Messages via traffic message coding - Part 1: Coding protocol for Radio Data System - Traffic Message Channel (RDS- TMC) using ALERT-C (ISO 14819-1:2003)
CEN ISO/TS 17261:2005/AC:2006	Intelligent transport systems - Automatic vehicle and equipment identification - Intermodal good transport architecture and terminology (ISO/TS 17261:2005/Cor.1:2005)
CEN ISO/TS 14907- 1:2010/AC:2010	Road transport and traffic telematics - Electronic fee collection - Test procedures for user and fixed equipment - Part 1: Description of test procedures (ISO/TS 14907-1:2010/Cor 1:2010)



Reference	Title
EN ISO 12855:2012/AC:2013	Electronic fee collection - Information exchange between service provision and toll charging - Technical Corrigendum 1 (ISO 12855:2012/Cor 1:2013)
CEN ISO/TS 13141:2010/AC:2013	Electronic fee collection - Localisation augmentation communication for autonomous systems - Technical Corrigendum 1 (ISO/TS 13141:2010/Cor 1:2013)
EN ISO 14906:2011/AC:2013	Electronic fee collection - Application interface definition for dedicated short- range communication - Technical Corrigendum 1 (ISO 14906:2011/Cor 1:2013)
CEN ISO/TS 17575- 1:2010/AC:2013	Electronic fee collection - Application interface definition for autonomous systems - Part 1: Charging - Technical Corrigendum 1 (ISO/TS 17575- 1:2010/Cor 1:2013)
CEN ISO/TS 17575- 3:2011/AC:2013	Electronic fee collection - Application interface definition for autonomous systems - Part 3: Context data - Technical Corrigendum 1 (ISO/TS 17575- 3:2011/Cor 1:2013)
EN ISO 17262:2012/AC:2013	Intelligent transport systems - Automatic vehicle and equipment identification - Numbering and data structures - Technical Corrigendum 1 (ISO 17262:2012/Cor 1:2013)
EN ISO 17263:2012/AC:2013	Intelligent transport systems - Automatic vehicle and equipment identification - System parameters - Technical Corrigendum 1 (ISO 17263:2012/Cor 1:2013)
CEN/TS 16986:2016/AC:2017	Electronic Fee Collection - Interoperable application profiles for information exchange between Service Provision and Toll Charging

Under development:

Reference	Title
CEN/TS 17313:2019	Intelligent transport systems - ESafety - Interoperability and user choice in eCall aftermarket and third party eCall services
CEN/TS 17312:2019	Intelligent transport systems - eSafety - eCall via satellite

CEN/TC 350/WG 6 "CIVIL ENGINEERING WORKS"

Scope:

The TC shall be responsible for the development of voluntary horizontal standardized methods for the assessment of the sustainability aspects of new and existing construction works and for standards for the



environmental product declaration of construction products. The standards will be generally applicable (horizontal) and relevant for the assessment of integrated performance of buildings over its life cycle. The standards will describe a harmonized methodology for assessment of environmental performance of buildings and life cycle cost performance of buildings as well as the quantifiable performance aspects of health and comfort of buildings.

Published and under development documents:

Reference	Title
EN 15643-5:2017	Sustainability of construction works - Sustainability assessment of buildings and civil engineering works - Part 5: Framework on specific principles and requirement for civil engineering works
	Sustainability of construction works - Sustainability assessment civil engineering works - Calculation methods

CEN/TC 391: SOCIETAL AND CITIZEN SECURITY

Scope:

The main objective of CEN/TC 391 is to elaborate a family of European standards, standard-like documents (e.g. procedures, guidelines, best practices, minimal codes of practice and similar recommendations) in the Societal and Citizen Security sector including aspects of prevention, response, mitigation, continuity and recovery before, during and after a destabilising or disruptive event. Verification and training will also be considered. CEN/TC 391 will not deal with issues already dealt in other TCs. Concerning technology, CEN/TC 391 may identify needs in product standardization, but this will not lead to direct action by this CEN/TC. These issues shall be communicated to those CEN, ISO or other TCs working within the framework of these specific products. Where other TCs do not address the identified areas, then CEN/TC 391 will develop the standard(s) or proposed deliverables where appropriate. The standardisation activities will consider the following main issues related to Societal and Citizen Security: - Products and services (equipment, communication, information, goods, transport, energy, cultural inheritance and properties);





- Infrastructures (roads, ports, airports, rail stations, bridges, factories...); - Stakeholder needs and requirements, potential conflicts; - Relationship (cultural and geographical diversity); - Citizen requirements and vulnerabilities, including privacy.

Published documents:

Reference	Title
CEN/TS 16595:2013	CBRN - Vulnerability Assessment and Protection of People at Risk
CEN/TS 16850:2015	Societal and Citizen Security - Guidance for managing security in healthcare facilities
CEN/TS 17091:2018	Crisis management - Guidance for developing a strategic capability
CEN/TS 17159:2018	Societal and citizen security - Guidance for the security of hazardous materials (CBRNE) in healthcare facilities
EN ISO 22300:2018	Security and resilience - Vocabulary (ISO 22300:2018)
EN ISO 22301:2014	Societal security - Business continuity management systems - Requirements (ISO 22301:2012)
EN ISO 22311:2014	Societal security - Video-surveillance - Export interoperability (ISO 22311:2012)
EN ISO 22313:2014	Societal security - Business continuity management systems - Guidance (ISO 22313:2012)
EN ISO 22315:2018	Societal security - Mass evacuation - Guidelines for planning (ISO 22315:2014)
EN ISO 22397:2018	Societal security - Guidelines for establishing partnering arrangements (ISO 22397:2014)

Under development:

Reference	Title
prEN 17173 (WI=00391010)	European CBRNE glossary
prEN ISO 22300 rev	Security and resilience - Vocabulary





Reference	Title
prEN ISO 22301	Security and resilience - Business continuity management systems - Requirements (ISO/DIS 22301:2019)
prEN ISO 22313	Security and resilience - Business continuity management systems - Guidance (ISO/DIS 22313:2019)
	CBRNE Training Framework: Requirements for CBRNE education and training

CEN/TC 442 BUILDING INFORMATION MODELLING (BIM)

Scope:

Standardization in the field of structured semantic life-cycle information for the built environment. The committee will develop a structured set of standards, specifications and reports which specify methodologies to define, describe, exchange, monitor, record and securely handle asset data, semantics and processes with links to geospatial and other external data.

Published documents:

Reference	Title
EN ISO 29481-2:2016	Building information models - Information delivery manual - Part 2: Interaction framework (ISO 29481-2:2012)
EN ISO 16739:2016	Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries (ISO 16739:2013)
EN ISO 12006-3:2016	Building construction - Organization of information about construction works - Part 3: Framework for object-oriented information (ISO 12006-3:2007)
EN ISO 19650-1:2018	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 1: Concepts and principles (ISO 19650-1:2018)
EN ISO 19650-2:2018	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 2: Delivery phase of the assets (ISO 19650-2:2018)
EN ISO 29481-1:2017	Building information models - Information delivery manual - Part 1: Methodology and format (ISO 29481-1:2016)





Under development:

Reference	Title
prEN ISO 23386	Building information modelling and other digital processes used in construction - Methodology to describe, author and maintain properties in interconnected dictionaries (ISO/DIS 23386:2019)
	Product data templates, for products and systems used in construction works, stored in a data dictionary framework - Part 2: Specification of Product data templates based on harmonised technical specifications under the Construction Products Regulation (CPR), and how to link the product data templates to Industry Foundation Classes (IFC)
	Building Information Modeling - Level of Information Need - Part 1: Concepts and principles
prEN ISO 23387	Product data templates, for products and systems used in construction works, stored in a data dictionary framework - Part 1: General concepts, relations, and general structure of product data templates, and how to link the product data templates to Industry Foundation Classes (IFC
	Digital information exchange - Definition of activities and transactions – use cases of built assets within a framework of steps of maturity and activities
prEN ISO 16757-1	Data structures for electronic product catalogues for building services - Part 1: Concepts, architecture and model (ISO 16757-1:2015)
prEN ISO 16757-2	Data structures for electronic product catalogues for building services - Part 2: Geometry (ISO 16757-2:2016)
prEN ISO 21597	Information container for data drop (ICDD)
prEN ISO 21597-1	Information container for data drop - Exchange specification - Part 1: Container (ISO/DIS 21597-1:2018)
prEN ISO 21597-2	Information container for data drop - Exchange specification - Part 2: Dynamic semantics (ISO/DIS 21597-2:2018)
prEN ISO 19650-5	Organization of information about construction works Information management using building information modelling Part 5: Specification for security-minded building information modelling, digital built environments and smart asset management
	Building Information Modelling – Exchange structure for product data templates and product data based on ifcXML
prEN ISO 12006-3 rev	Building construction Organization of information about construction works Part 3: Framework for object-oriented information





Reference	Title
prEN ISO 19650-3	Organization of information about construction works Information management using building information modelling Part 3:Operational phase of assets
	Building Information Modelling (BIM) - Modelling and linking between semantic ontologies
	Guidance on how to implement EN ISO 19650-1 and -2 in Europe

CEN/TC 459/SC 1 EUROPEAN COMMITTEE FOR IRON AND STEEL STANDARDIZATION. TEST METHODS FOR STEEL (OTHER THAN CHEMICAL ANALYSIS)

Scope:

Standardization of general methods for mechanical testing, physico-chemical and non-destructive testing including if necessary the verification and calibration of testing equipment that is used to determine the properties of the steel. NOTE 1: if the test standard is applicable to all metallic materials (in particular cases where the European Standard is based on an International Standard applicable to all metallic materials) the scope can be extended to all metallic materials. NOTE 2: where product specific testing is required, test methods must be prepared by the appropriate Technical Committees, unless otherwise decided by ECISS/COCOR.

Published documents:

Reference	Title
EN 10204:2004	Metallic products - Types of inspection documents
EN 10244-1:2009	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 1: General principles
ISO 7500-1:2018	Metallic materials - Calibration and verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Calibration and verification of the force-measuring system (ISO 7500-1:2018)





CEN/TC 459/SC 6 EUROPEAN COMMITTEE FOR IRON AND STEEL STANDARDIZATION. WIRE ROD AND WIRES

Scope:

Standardisation of designation, general technical delivery conditions, quality control and documentation for iron and steel products. Standardisation of definitions, classification and vocabulary for steel and iron products. Note: These standards are applicable whenever possible, to all metallic materials. These standards provide guidance and specifications for use within other standards.

Published documents:

Reference	Title
EN 10204:2004	Metallic products - Types of inspection documents
EN 10244-1:2009	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 1: General principles
EN 10244-2:2009	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 2: Zinc or zinc alloy coatings
EN 10245-1:2011	Steel wire and wire products - Organic coatings on steel wire - Part 1: General rules
EN 10264-1:2012	Steel wire and wire products - Steel wire for ropes - Part 1: General requirements
EN 10264-2:2012	Steel wire and wire products - Steel wire for ropes - Part 2: Cold drawn non alloy steel wire for ropes for general applications

CEN/TC 459/SC 12 EUROPEAN COMMITTEE FOR IRON AND STEEL STANDARDIZATION. GENERAL ISSUES

Scope:





Standardization of steel wire and wire products, steel wire rod, including wire rod for cold heading and cold extruding but excluding prestressing wire and wire for welding applications (requirements, dimensions, tolerances and specific tests relating to these wires and wire products).

Published documents:

Reference	Title	
EN 10218-1:2012	Steel wire and wire products - General - Part 1: Test methods	
EN 10218-2:2012	Steel wire and wire products - General - Part 2: Wire dimensions and tolerances	

CLC/SC 9XA ELECTRICAL AND ELECTRONIC APPLICATIONS FOR RAILWAYS. COMMUNICATION, SIGNALLING AND PROCESSING SYSTEMS

Scope:

To deal with the standardization of railway communication, signalling and processing systems, taking into account the relevant safety requirements

Published document:

Reference	Title
EN 50125- 3:2003/corrigendum May 2010 (pr=25799)	Railway applications - Environmental conditions for equipment - Part 3: Equipment for signalling and telecommunications
EN 50125-3:2003 (pr=6725)	Railway applications - Environmental conditions for equipment - Part 3: Equipment for signalling and telecommunications
EN 50128:2011	pr=20508) Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems
EN 50128:2011/AC:2014 pr=25340) Railway applications - Communication, signalling and processing sys Software for railway control and protection systems	
EN 50129:2003/corrigendum May 2010 (pr=25793)	Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling





Reference	Title	
EN 50129:2003 (pr=13550)	Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling	
EN 50129:2018 (pr=60242)Railway applications - Communication, signalling and processing systSafety related electronic systems for signalling		
EN 50159:2010 (pr=21140)	Railway applications - Communication, signalling and processing systems - Safety-related communication in transmission systems	
EN 50238-1:2003 (pr=6720)	Railway applications - Compatibility between rolling stock and train detection systems - Part 1: General	
EN 50238-1:2003/AC:2014 (pr=59364)	Railway applications - Compatibility between rolling stock and train detection systems	
CLC/TS 50238- 2:2015/AC:2016-07 (pr=62982)	Railway applications - Compatibility between rolling stock and train detection systems - Part 2: Compatibility with track circuits	
CLC/TS 50238-2:2015 (pr=24953)	Railway applications - Compatibility between rolling stock and train detection systems - Part 2: Compatibility with track circuits	
CLC/TS 50238-3:2013 (pr=23571)	Railway applications - Compatibility between rolling stock and train detection systems - Part 3: Compatibility with axle counters	
EN 50239:1999 (pr=6244)	Railway applications - Radio remote control system of traction vehicle for freight traffic	
EN 50239:1999/AC:2012 (pr=24328)	Railway applications - Radio remote control system of traction vehicle for freight traffic	
EN 50239:2018 (pr=62185)	Railway applications - Radio remote control system of traction vehicle for shunting application	
CLC/TR 50452:2007 (pr=16656)	Railway applications - Radio remote control system of traction vehicle for freight traffic in multiple traction operation	
CLC/TS 50459-1:2015 (pr=24950)	Railway applications - Communication, signalling and processing systems - European Rail Traffic Management System- Driver-Machine Interface - Part 1: General principles for the presentation of ERTMS/ETCS/GSM-R information	
CLC/TS 50459-2:2015 (pr=24951)	Railway applications - Communication, signalling and processing systems - European Rail Traffic Management System - Driver-Machine Interface - Part 2: Ergonomic arrangements of GSM-R information	
CLC/TS 50459-3:2016 (pr=24952)	Railway applications - Communication, signalling and processing systems - European Rail Traffic Management System - Driver-Machine Interface - Part 3: Ergonomic arrangements of non ETCS information	
CLC/TR 50507:2007 (pr=16679)	Railway applications - Interference limits of existing track circuits used on European railways	
CLC/TR 50511:2007 (pr=20699)	Railway applications - Communications, signalling and processing systems - ERTMS/ETCS - External signalling for lines equipped with ERTMS/ETCS Level 2	
EN 50578:2013 (pr=23347) EN 50617-1:2015 (pr=23572)	Railways applications - Direct current signalling relaysRailway applications - Technical parameters of train detection systems for theinteroperability of the trans-European railway system - Part 1: Track circuits	
EN 50617-2:2015 (pr=23573)		
EN 50617-2:2015/AC:2016 (pr=61776)	Railway Applications - Technical parameters of train detection systems for the interoperability of the trans-European railway system - Part 2: Axle counters	





Under development:

Reference	Title
prEN 50238-1:2017 (pr=62177)	Railway applications - Compatibility between rolling stock and train
	detection systems - Part 1: General
CLC/prTS 50238-2 (pr=68079)	Railway applications - Compatibility between rolling stock and train
	detection systems - Part 2: Compatibility with track circuits
CLC/FprTS 50238-3 (pr=63470)	Railway applications - Compatibility between rolling stock and train
	detection systems - Part 3: Compatibility with axle counters
prEN 50668 (pr=62183)	Railway applications - Signalling and control systems for non UGTMS
	Urban Rail systems





6. CORRELATION OF STANDARDS WITH FORESEE WORK PACKAGES

In order to narrow the search, a more concrete approach has been developed in a second version of the document. Specifically, partners were requested for an extra filtering and classification of the standards in a new chapter (the present one) to facilitate the identification of standards and its match with every Work Package. Standards identified have been classified under three different categories:

Clearly relevant
Interesting as info
Slightly related

In addition, other support documents have been identified. These documents are not connected with the standardization landscape but helpful for the development of their activities. All this information is contained in the following annexes:

- Annex 1: Standards related to WP2
- Annex 2: Standards related to WP3
- Annex 3: Standards related to WP4
- Annex 4: Standards related to WP7

In addition, other relevant of interest (not connected with the standardization landscape) have been identified. The table below matches every document with its corresponding WP.

WP2	Minister Decree 17/01/2018 Italian Technical Norms for Constructions
WP3	• European Assessment Document EAD 230025-00-0106. Flexible Facing systems for slope stabilization and rock protection





WP4	 GB 50982-2014) for structural health monitoring of buildings and bridges in China Norma 5.2-IC. Drenaje Superficial (Orden FOM/298/2016 de 15 de febrero) Guía metodológica para el desarrollo del sistema nacional de cartografía de zonas inundables. Ministerio de Medio Ambiente y Medio Rural y Marino. 2011.
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WP 7	
	 CEDR-Contractor-Report-2017-1-Implementation asset management
	CEDR-Contractor-Report-2017-1-Implementation-Guide-for-an-ISO-55001-
	Managementt-System
	FHWA Lacks Detailed Guidance on Infrastructure Resilience for Emergency
	Relief Projects and a Process To Track Related Improvements
	(https://www.oig.dot.gov/sites/default/files/FHWA%20ER%20Resilience%20Fi
	nal%20Report%5E1-10-18.pdf)
	• Climate change adaptation guide for transportation systems management,
	operations, and maintenance
	(https://ops.fhwa.dot.gov/publications/fhwahop15026/fhwahop15026.pdf)
	Risk-Based Transportation Asset Management: Building Resilience into
	Transportation Assets (<u>https://www.fhwa.dot.gov/asset/pubs/hif13018.pdf</u>)
	• Transportation System Resilience to Extreme Weather and Climate Change
	(https://ops.fhwa.dot.gov/publications/fhwahop15025/fhwahop15025.pdf)
	• FHWA (EEUU): Guides, tools and use cases:
	o https://www.fhwa.dot.gov/environment/sustainability/resilience/
	o Guidelines
	https://www.fhwa.dot.gov/environment/sustainability/resilience/ada
	ptation framework/climate adaptation.pdf
	o Tools
	https://www.fhwa.dot.gov/environment/sustainability/resilience/tool
	<u>s/index.cfm</u>
	• European Environment Agency: "Adaptation of transport to climate change in
	Europe. Challenges and options across transport modes and stakeholders." –
	2014.
	https://www.eea.europa.eu/publications/adaptation-of-transport-to-
	<u>climate</u>
	 Guidelines extracted from ROAD_ADAPT Project (CEDR)
	http://www.cedr.eu/strategic-plan-tasks/research/cedr-call-2012/call-
	2012-climate-change-road-owners-adapting-climate-change/roadapt-project-
	<u>results/</u>
	• Guideline edited by CAF (Banco de desarrollo de américa latina) (Spanish):
	"Guía de Buenas Prácticas para la Adaptación de las Carreteras al Clima" —
	Junio 2018.
	http://scioteca.caf.com/handle/123456789/1221
	 Measuring the resilience of transport infrastructure. AECOM New Zealand Ltd.
	JF Hugues and K Healy
	 Resilience metrics and measurement methods for transportation
	infrastructure: The state of the art. Sun, W. Bocchini P., Davison Brian. Lehigh
	University. April 2018





rr	
•	Adapting to the Impact of Climate Change. The National Academies of Sciences, Engineering, Medicine.
	https://www.nap.edu/catalog/12783/adapting-to-the-impacts-of-climate-
	<u>change</u>
•	Manual para el control de inundaciones. Gobierno Federal. México.
•	Attribution of Extreme Weather Events in the Context of Climate Change. The
	National Academies. <u>https://www.nap.edu/catalog/21852/attribution-of-</u>
	extreme-weather-events-in-the-context-of-climate-change
•	Sustainable bridge design by metamodel-assisted multi-objective optimization
	and decision-making under uncertainty. García-Segura, T., Penadés-Pla, V.,
	Yepes, V. 2017.
•	Evaluación del impacto del cambio climático en los recursos hídricos y sequías
	en España. CEDEX. 2017
•	Infraestructura resiliente bajo un enfoque de reducción del riesgo de
	desastres y adaptación al cambio climático. Marco conceptual. Cooperación
	Suiza en Bolivia. 2017
•	Climate Change and Extreme Weather Vulnerability Assessment Framework.
	FHA. Diciembre 2012.
•	Evaluación de la vulnerabilidad y adaptación de infraestructura ante el cambio
	climático. PNUD de la ONU.
•	Sostenibilidad y Resiliencia de las Infraestructuras. Una visión operativa desde
	el mundo de la ingeniería, de los negocios y del cambio climático. Colegio de
	Ingenieros de Caminos, Canales y Puertos. 2017
	ingenieros de Carillios, Callaies y ruertos. 2017





7. CONCLUSION: ROADMAP FOR PRE-STANDARDIZATION ACTIVITIES IN THE PROJECT

Following the completion of **Task 8.4.1** (Analysis of the applicable standardization landscape) under the Deliverable 8.2, the immediate step is to make a concrete contribution to the ongoing and future standardization developments. This assignment will be completed under the framework of **Task 8.4.2**.

Activities related to T8.4.1 and T8.4.2 are described in detail below.

7.1 TASK 8.4.1: CURRENT STANDARDIZATION FRAMEWORK

Information described in the annexes of the present Deliverable 8.2 provides useful information for the future development of outputs from FORESEE and its Work Packages, by identifying the existing standards and the on-going developments (at European and international level) in the fields of interest related to FORESEE project, including BIM, construction Eurocodes, etc.

Furthermore, the above-mentioned Deliverable can help to identify standardization gaps that can be covered by the results of the Project and which work will be done in sub-task 8.4.2 In addition, **FORESEE** has identified standardization as a key and effective means to disseminate and exploit the project's results and then facilitate market access.

7.2 TASK 8.4.2: STANDARDIZATION ACTIVITIES TO BE COMPLETED DURING THE PROJECT

Task 8.4.2 **"Contribution to the ongoing and future standardization development (D.8.7)"** will develop the main efforts to approach and integrate FORESEE into the current standardization activities untiul the end of the project in Month 42. This action will be reinforced by completing two different and related subtasks supported by UNE:

• **Communication with standardization committees**: the main objective of the sub-task during the coming period will be to develop a strategy for interaction with representatives from Technical Committees (TCs) related with the project, selecting from those previously identified in the





present Deliverable. This selection will be carried out by the Consortium under the guiadance of UNE as standarisation body with vast knowledge in the field.

Following this strategy, a bidirectional relationship must be created with two main objectives:

- Use the standardization system as a fast and much focused dissemination tool to the market stakeholders at European or even International scale
- ✓ Monitor the TCs information and promote the future elaboration of a standard based on the results of the project.

Under this bidirectional relationship it is important to define to what extent the relationship should be established, (i.e. monitoring their information or meeting and establishing a formal liaison with them).

Relationship with related TCs is focused on providing information about the Project and its objectives, getting feedback from industry to improve the exploitation strategy of the project and checking the feasibility and paving the path for future standardization or pre-standardization of the project results.

TCs information will be continuously monitored through the implemented system for distribution of information in the standardization organizations, to identify events that can be interesting or critical for the development of the project (circulation of related information, proposals for new standards, etc.).

• **Contribution to elaborate a new standard**: the main objective of the sub-task will be the last step of the pre-standardization activity being critical for the Project.

This task intends to facilitate and promote the inclusion of the outcomes of the project in a future standard, so they can be easily found and used by the European or international industrial sectors. The Consortium will identify the relevant project results and under what format should be developed in the Standardization landscape. The agreed format will be presented in the Deliverable 8.7 to be due in February 2022.





The kind of standard (standardization deliverable) outlined by the Project is the development of a CWA (CEN Workshop Agreement). This CWA will develop and issue those Project results, or part of this, based on partner input. Consequently, at the end of the project the CWA will be issued.

Based on the initial analysis of the current standardization framework, agreed by Consortium members, the following CEN and ISO Technical Committees and Working Groups will be contacted:

International TC	Title	
ISO/TC 207 and	Environmental management	
ISO/TC 207/SC 7	SC 7 Greenhouse gas management and related activities	
ISO/TC 262	Risk management	
European TC	Title	
CEN/TC 226	Road equipment	
CEN/TC 256	Railway applications	
CEN/TC 350/WG 6	Sustainability of construction works. Civil Engineering	
	works	

Table 7. Standarization route in FORESEE Project

The Standardization roadmap developed by the FORESEE project aims to be an effective tool to have a clear impact on interested parties and specially to facilitate the market deployment of the project outputs.



8. ANNEXES

8.1 STANDARDS RELATED TO WP 2

WP 2 Standards detailed b	v	
interest		
ISO/TC 59/SC 2 Buildings a	nd civil engineering works. Terminology and harmonization of languages	1
Published		Select the option
ISO 7078:1985	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes	Interesting as info
ISO 6707-1:2017	Buildings and civil engineering works Vocabulary Part 1: General terms	Interesting as info
ISO 6707-2:2017	Buildings and civil engineering works Vocabulary Part 2: Contract and communication terms	Interesting as info
ISO 6707-3:2017	Buildings and civil engineering works Vocabulary Part 3: Sustainability terms	Interesting as info
ISO 1803:1997	Building construction Tolerances Expression of dimensional accuracy Principles and terminology	Interesting as info
ISO 1791:1983	Building construction Modular co-ordination Vocabulary	Interesting as info
Under development		
ISO/WD 7078	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes	Interesting as info
ISO/WD 6707-1	Buildings and civil engineering works Vocabulary Part 1: General terms	Interesting as info
ISO/TC 59/SC 13 Organiza including building information	tion and digitization of information about buildings and civil engineering w tion modelling (BIM)	orks,
Published		
ISO 29481-1:2016	Building information models Information delivery manual Part	Clearly relevant
Vienna Agreement	1: Methodology and format	relevant
ISO 29481-2:2012	Building information models Information delivery manual Part 2: Interaction framework	Clearly relevant
Vienna Agreement		
ISO 22263:2008	Organization of information about construction works Framework for management of project information	Interesting as info
ISO 19650-1:2018	Organization and digitization of information about buildings and	
	civil engineering works, including building information modelling	Interesting
Vienna Agreement	(BIM) Information management using building information modelling Part 1: Concepts and principles	as info
ISO 19650-2:2018	Organization and digitization of information about buildings and	
Vienna Agreement	civil engineering works, including building information modelling (BIM) Information management using building information modelling Part 2: Delivery phase of the assets	Interesting as info





D8.2 Standardization Landscape Report

ISO 16739-1:2018	Industry Foundation Classes (IFC) for data sharing in the	Interesting
	construction and facility management industries Part 1: Data schema	as info
ISO/TS 12911:2012	Framework for building information modelling (BIM) guidance	Clearly relevant
Under development		
ISO/DIS 21597-2		the transmission of the second
	Information container for data drop Exchange specification Part	Interesting
Vienna Agreement	2: Dynamic semantics	as info
ISO/DIS 23387	Building Information Modelling (BIM) Data templates for construction objects used in the life cycle of any built asset	Interesting as info
Vienna Agreement	Concepts and principles	
ISO/DIS 23386	Building information modelling and other digital processes used in construction Methodology to describe, author and maintain	Interesting as info
Vienna Agreement	properties in interconnected dictionaries	43 1110
ISO/AWI TR 23262	GIS (Geospatial) / BIM interoperability	Clearly relevant
ISO/CD 19650-3	Organization of information about construction works Information management using building information modelling	Clearly relevant
Vienna Agreement	Part 3: Operational phase of assets	
ISO/CD 19650-5	Organization of information about construction works	
	Information management using building information modelling	Clearly
Vienna Agreement	Part 5: Specification for security-minded building information modelling, digital built environments and smart asset management	relevant
ISO/NP 16739-2	Industry Foundation Classes (IFC) for data sharing in the	Interesting
	construction and facility management industries Part 2: Data	as info
	schema using XML schema definitions	
	sign of structures. Terminology and symbols	1
Published		
ISO 8930:1987	General principles on reliability for structures List of equivalent	Interesting
	terms	as info
Under development		
ISO/AWI 8930	Bases for design of structures- Vocabulary	Interesting as info
	ign of structures. Reliability of structures	1
Published		
ISO 13824:2009	Bases for design of structures General principles on risk assessment of systems involving structures	Clearly relevant
ISO 2394:2015	General principles on reliability for structures	Interesting as info
Under development		
ISO/CD 13824	Bases for design of structures General principles on risk assessment of systems involving structures	Clearly relevant
ISO/AWI 23618	Design Principles of Seismically Isolated structures	Interesting as info
ISO/TC 98/SC 3 Bases for des	sign of structures. Loads, forces and other actions	
Published		
ISO 12494:2017	Atmospheric icing of structures	



		Interesting
		as info
ISO 4354:2009	Wind actions on structures	Interesting as info
Under development		
ISO/DIS 10252	Bases for design of structures Accidental actions	Interesting as info
ISO/TC 204 Intelligent trans	sport systems	
Published		
ISO/TS 29284:2012	Intelligent transport systems Event-based probe vehicle data	Interesting as info
ISO 29281-1:2018	Intelligent transport systems Localized communications Part 1: Fast networking & transport layer protocol (FNTP)	Interesting as info
ISO/TR 25104:2008	Intelligent transport systems System architecture, taxonomy, terminology and data modelling Training requirements for ITS architecture	Clearly relevant
ISO/TR 25100:2012	Intelligent transport systems Systems architecture Harmonization of ITS data concepts	Clearly relevant
ISO/TR 24532:2006	Intelligent transport systems Systems architecture, taxonomy and terminology Using CORBA (Common Object Request Broker Architecture) in ITS standards, data registries and data dictionaries	Interesting as info
ISO 24531:2013	Intelligent transport systems System architecture, taxonomy and terminology Using XML in ITS standards, data registries and data dictionaries	Interesting as info
ISO/TS 24530-1:2006 Vienna Agreement	Traffic and Travel Information (TTI) TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) Part 1: Introduction, common data types and tpegML	Interesting as info
ISO/TR 24529:2008	Intelligent transport systems Systems architecture Use of unified modelling language (UML) in ITS International Standards and deliverables	Interesting as info
ISO/TS 21219-18:2015	Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) Part 18: Traffic flow and prediction application (TPEG2-TFP)	Clearly relevant
ISO/TR 20545:2017	Intelligent transport systems Vehicle/roadway warning and control systems Report on standardisation for vehicle automated driving systems (RoVAS)/Beyond driver assistance systems	Interesting as info
ISO/TR 19083-1:2016	Intelligent transport systems Emergency evacuation and disaster response and recovery Part 1: Framework and concept of operation	Clearly relevant
ISO/TR 17465-1:2014	Intelligent transport systems Cooperative ITS Part 1: Terms and definitions	Interesting as info
ISO/TR 17465-2:2015	Intelligent transport systems Cooperative ITS Part 2: Guidelines for standards documents	Interesting as info
ISO/TR 17427-3:2015	Intelligent transport systems Cooperative ITS Part 3: Concept of operations (ConOps) for 'core' systems	Interesting as info
ISO/TR 17427-4:2015	Intelligent transport systems Cooperative ITS Part 4: Minimum system requirements and behaviour for core systems	Interesting as info
ISO/TR 17427-6:2015		





	Intelligent transport systems Cooperative ITS Part 6: 'Core	Clearly
	system' risk assessment methodology	relevant
ISO/TR 17427-7:2015	Intelligent transport systems Cooperative ITS Part 7: Privacy	Interesting
	aspects	as info
ISO/TR 17427-8:2015	Intelligent transport systems Cooperative ITS Part 8: Liability	Interesting
	aspects	as info
ISO/TR 17424:2015	Intelligent transport systems Cooperative systems State of the	Interesting
	art of Local Dynamic Maps concepts	as info
Vienna Agreement		
ISO/TR 16786:2015	Intelligent transport systems The use of simulation models for	Clearly
	evaluation of traffic management systems Input parameters and	relevant
	reporting template for simulation of traffic signal control systems	Televant
ISO/TS 15624:2001	Transport information and control systems Traffic Impediment	Interesting
	Warning Systems (TIWS) System requirements	as info
ISO 14827-1:2005	Transport information and control systems Data interfaces	Interaction
	between centres for transport information and control systems	Interesting
	Part 1: Message definition requirements	as info
ISO 14827-2:2005	Transport information and control systems Data interfaces	
	between centres for transport information and control systems	Interesting
	Part 2: DATEX-ASN	as info
ISO 14825:2011		
	Intelligent transport systems Geographic Data Files (GDF)	Slightly
Vienna Agreement	GDF5.0	related
Under development		
ISO/DIS 19297-1	Intelligent transport systems Shareable geospatial databases for	Slightly
,	ITS applications Part 1: Framework	related
ISO/NP 24531-2	Intelligent transport systems System architecture, taxonomy and	
	terminology Part 2: Using ASN.1 in ITS standards, data registries	Slightly
	and data dictionaries	related
	Intelligent transport systems Shareable geospatial databases for	
ISO/NP 19297-4	ITS applications Part 4: Common data structure	Slightly
		related
	Intelligent transport systems Public transport Emergency	
ISO/NP 19083-3	evacuation and disaster response and recovery Part 3: Use cases	Interesting
		as info
ISO/TC 207/SC 7 Greenhous	se gas management and related activities	
Under development		
ISO/CD 14091	Adaptation to climate change Vulnerability, impacts and risk	Clearly
	assessment	relevant
		- Cicvant
ISO/TC 211 Geographic info	rmation/Geomatics	
Published		
ISO 19115-1:2014		Clearly
130 19115-1:2014	Geographic information — Metadata — Part 1: Fundamentals	relevant
ISO/ TS 19139-1:2019	Coographic information VML scheme implementation Dert 1.	-
130/ 13 13133-1:2013	Geographic information — XML schema implementation — Part 1:	Clearly
ISO/TC 262 Bick management	Encoding rules	relevant
ISO/TC 262 Risk managemen		
Published		





IEC 31010:2009	Risk management Risk assessment techniques	Clearly relevant
ISO/TR 31004:2013	Disk management Cuidance for the implementation of ICO 21000	Clearly
	Risk management Guidance for the implementation of ISO 31000	relevant
ISO 31000:2018	Risk management Guidelines	Clearly relevant
Under development		
ISO/NP 31073	Risk management terminology	Clearly relevant
ISO/AWI 31030	Risk management Managing travel risks Guidance for organizations	Clearly relevant
ISO/CD 31022	Risk management Guidelines for the management of legal risk	Slightly related
ISO/NP 31050	Guidance for managing emerging risks to enhance resilience	Clearly relevant
IEC/DIS 31010	Risk management Risk assessment techniques	Clearly relevant
NP IWA 31	Using ISO 31000 guidance on risk management in management systems	Interesting as info
ISO/TC 292 Security and resi	lience	
Published		
ISO 22326:2018	Security and resilience Emergency management Guidelines for	Interesting
	monitoring facilities with identified hazards	as info
ISO 22316:2017	Security and resilience Organizational resilience Principles and attributes	Interesting as info
ISO 22300:2018		
	Security and resilience Vocabulary	Interesting as info
Vienna Agreement		
Under development		.
ISO/CD TR 22370	Security and resilience Framework and principles for urban resilience	Interesting as info
ISO/DIS 22328-1	Security and resilience Emergency management Community-	
	based disaster early warning system Part 1: Guidelines for	Interesting
	implementation of a community-based disaster early warning system	as info
CEN/TC 250/SC 8 Eurocode	8: Earthquake resistance design of structures	
Published		
EN 1998-3:2005	Eurocode 8: Design of structures for earthquake resistance - Part 3: Assessment and retrofitting of buildings	Interesting as info
CEN/TC 278 Intelligent trans	sport systems	
Under development		
prEN 12896-8	Public transport - Reference data model - Part 8 : Management information & statistics	Clearly relevant
CEN/TC 350/WG 6		
Under development		
	Sustainability of construction works - Sustainability assessment civil engineering works - Calculation methods	Interesting





CEN/TO 201, Contatelland		
CEN/TC 391: Societal and		
Citizen Security		
Published		
EN 160 22200 2010	Security and resilience - Vocabulary (ISO 22300:2018)	Interesting
EN ISO 22300:2018		as info
Under development		
	European CBRNE glossary	Slightly
prEN 17173		related
	Security and resilience - Vocabulary	Interesting
		as info
CEN/TC 442 Building		
Information Modelling (BIM)		
Published		
	Building information models - Information delivery manual - Part 2:	Clearly
EN ISO 29481-2:2016	Interaction framework (ISO 29481-2:2012)	relevant
	Organization and digitization of information about buildings and	
	civil engineering works, including building information modelling	Clearly
	(BIM) - Information management using building information	relevant
EN ISO 19650-1:2018	modelling - Part 1: Concepts and principles (ISO 19650-1:2018)	
	Organization and digitization of information about buildings and	
	civil engineering works, including building information modelling	Clearly
	(BIM) - Information management using building information	relevant
EN ISO 19650-2:2018	modelling - Part 2: Delivery phase of the assets (ISO 19650-2:2018)	
	Building information models - Information delivery manual - Part 1:	Clearly
EN ISO 29481-1:2017	Methodology and format (ISO 29481-1:2016)	relevant
Under development		
	Building information modelling and other digital processes used in	Clickshi
	construction - Methodology to describe, author and maintain	Slightly related
prEN ISO 23386	properties in interconnected dictionaries (ISO/DIS 23386:2019)	Telateu
	Building Information Modeling - Level of Information Need - Part 1:	Clearly
prEN 17412	Concepts and principles	relevant
	Data structures for electronic product catalogues for building	Clickshi
	services - Part 1: Concepts, architecture and model (ISO 16757-	Slightly
prEN ISO 16757-1	1:2015)	related
	Information container for data drop - Exchange specification - Part	Slightly
prEN ISO 21597-1	1: Container (ISO/DIS 21597-1:2018)	related
	Information container for data drop - Exchange specification - Part	Slightly
prEN ISO 21597-2	2: Dynamic semantics (ISO/DIS 21597-2:2018)	related
	Organization of information about construction works	
	Information management using building information modelling	Clearly
	Part 5: Specification for security-minded building information	relevant
prEN ISO 19650-5	modelling, digital built environments and smart asset management	
	Building construction Organization of information about	
	construction works Part 3: Framework for object-oriented	Interesting
prEN ISO 12006-3 rev	information	as info
	Organization of information about construction works	
	Information management using building information modelling	Clearly
prEN ISO 19650-3	Part 3:Operational phase of assets	relevant
PIETA 120 12020-2		







Page **182** of 203



8.2 STANDARDS RELATED TO WP 3

WP 3 Standards sortered by		
nterest		
CEN/ TC 168 Chains, ropes, web	bing, slings and accessories – Safety	
Published		Select the option
EN 12385-2:2002+A1:2008	Steel wire ropes - Safety - Part 2: Definitions, designation and classification	Clearly relevant
EN 12385-4:2002+A1:2008	Steel wire ropes - Safety - Part 4: Stranded ropes for general lifting applications	Clearly relevant
CEN/TC 262 Metallic and other i	inorganic coatings, including for corrosion protection and corrosior	
metals and alloys		_
Published		
EN ISO 9223:2012	Corrosion of metals and alloys - Corrosivity of atmospheres - Classification, determination and estimation (ISO 9223:2012)	Clearly relevant
EN ISO 9227:2017	Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017)	Clearly relevant
EN ISO 1461:2009	Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods (ISO 1461:2009)	Clearly relevant
CEN/TC 459/SC 1 European Con chemical analysis)	nmittee for Iron and Steel Standardization. Test methods for steel (other than
Published		
EN 10204:2004	Metallic products - Types of inspection documents	Clearly relevant
EN 10244-1:2009	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 1: General principles	Clearly relevant
SO 7500-1:2018	Metallic materials - Calibration and verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Calibration and verification of the force- measuring system (ISO 7500-1:2018)	Clearly relevant
CEN/TC 459/SC 6 European Com	mittee for Iron and Steel Standardization. Wire rod and wires	
Published		
EN 10204:2004	Metallic products - Types of inspection documents	Clearly relevant
EN 10244-1:2009	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 1: General principles	Clearly relevant
EN 10244-2:2009	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 2: Zinc or zinc alloy coatings	Clearly relevant
EN 10245-1:2011	Steel wire and wire products - Organic coatings on steel wire - Part 1: General rules	Clearly relevant
EN 10264-1:2012	Steel wire and wire products - Steel wire for ropes - Part 1: General requirements	Clearly relevant
N 10264-2:2012	Steel wire and wire products - Steel wire for ropes - Part 2: Cold drawn non alloy steel wire for ropes for general applications	Clearly relevant
CEN/TC 459/SC 12 European Co	mmittee for Iron and Steel Standardization. General ISSUES	





Published		
EN 10218-1:2012	Steel wire and wire products - General - Part 1: Test methods	Clearly relevant
EN 10218-2:2012	Steel wire and wire products - General - Part 2: Wire dimensions and tolerances	Clearly relevant





8.3 STANDARDS RELATED TO WP 4

WP 4 Standards sortered by		
interest	i den sin suite a sur le Transie de sur el berne site time of le sur sur	
ISO/TC 59/SC 2 Buildings and c	ivil engineering works. Terminology and harmonization of languages	Select the
Published		option
	Building construction Procedures for setting out, measurement	Interesting
ISO 7078:1985	and surveying Vocabulary and guidance notes	as info
ISO 6707-1:2017	Buildings and civil engineering works Vocabulary Part 1: General terms	Clearly relevant
ISO 6707-2:2017	Buildings and civil engineering works Vocabulary Part 2: Contract and communication terms	
ISO 1803:1997	Building construction Tolerances Expression of dimensional accuracy Principles and terminology	Clearly relevant
Under development		
ISO/WD 7078	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes	Clearly relevant
ISO/WD 6707-1	Buildings and civil engineering works Vocabulary Part 1: General terms	Clearly relevant
•	and digitization of information about buildings and civil engineering wo	
including building information		лк <u>э</u> ,
Under development		
ISO/AWI TR 23262	GIS (Geospatial) / BIM interoperability	Clearly relevant
ISO/CD 19650-5	Organization of information about construction works Information	Clearly
	management using building information modelling Part 5:	relevant
Vienna Agreement	Specification for security-minded building information modelling, digital built environments and smart asset management	
ISO/NP 16739-2	Industry Foundation Classes (IFC) for data sharing in the construction	
	and facility management industries Part 2: Data schema using XML schema definitions	Interesting as info
	gn of structures. Terminology and symbols	
Published		
ISO 8930:1987	General principles on reliability for structures List of equivalent terms	Clearly relevant
ISO 3898:2013	Bases for design of structures Names and symbols of physical quantities and generic quantities	Interesting as info
Under development		
ISO/AWI 8930	- Bases for design of structures- Vocabulary	Clearly relevant
ISO/TC 98/SC 2 Bases for desig	n of structures. Reliability of structures	
Published		
ISO 22111:2007	Bases for design of structures General requirements	Clearly relevant
ISO 13824:2009	Bases for design of structures General principles on risk assessment of systems involving structures	Clearly relevant





ISO 13823:2008	General principles on the design of structures for durability	Clearly
		relevant
ISO 13822:2010	Bases for design of structures Assessment of existing structures	Clearly
Under development		relevant
ISO/CD 13824	Bases for design of structures General principles on risk	Clearly
130/CD 13824		Clearly relevant
	assessment of systems involving structures	-
ISO/AWI 23618	Design Principles of Seismically Isolated structures	Clearly relevant
ISO/DIS 22111	Bases for design of structures General requirements	Clearly relevant
ISO/TC 98/SC 3 Bases for d	lesign of structures. Loads, forces and other actions	
Published		
ISO 3010:2017		Clearly
	Bases for design of structures Seismic actions on structures	relevant
ISO/TC 262 Risk manageme	ent	
Published		
IEC 31010:2009		Clearly
	Risk management Risk assessment techniques	relevant
ISO/TR 31004:2013		Clearly
	Risk management Guidance for the implementation of ISO 31000	relevant
ISO 31000:2018		Clearly
	Risk management Guidelines	relevant
Under development		
ISO/NP 31073		Clearly
,	Risk management terminology	relevant
ISO/NP 31050		Clearly
	Guidance for managing emerging risks to enhance resilience	relevant
IEC/DIS 31010		Clearly
	Risk management Risk assessment techniques	relevant
NP IWA 31	Using ISO 31000 guidance on risk management in management	Clearly
	systems	relevant
ISO/TC 292 Security and re	silience	
Published		
ISO 22327:2018	Security and resilience Emergency management Guidelines for	
	implementation of a community-based landslide early warning	Clearly
	system	relevant
160 22226 2610	Security and resilience Emergency management Guidelines for	Clearly
ISO 22326:2018	monitoring facilities with identified hazards	relevant
ISO 22325:2016	Security and resilience Emergency management Guidelines for	Interesting
	capability assessment	as info
ISO 22320:2018	Security and resilience Emergency management Guidelines for	Interesting
	incident management	as info
Under development		
ISO/AWI 22329	Security and resilience Emergency management Guidelines for	Slightly
,	the use of social media in emergencies	related
	0	
ISO/NP 22300	Security and resilience Vocabulary	Clearly





Vienna Agreement		
-	2: Design of concrete structures	
Published		
EN 1992-1-1:2004	Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings	Interesting as info
EN 1992-2:2005	Eurocode 2 - Design of concrete structures - Concrete bridges - Design and detailing rules	Interesting as info
CEN /TC 250/SC 3 Eurocode	3 - Design of steel structures	
Published		
EN 1993-1-1:2005	Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings	Interesting as info
EN 1993-2:2006	Eurocode 3 - Design of steel structures - Part 2: Steel Bridges	Clearly relevant
Under development		
EN 1993-1-14	Eurocode 3 — Design of steel structures — Part 1-14: Design assisted by finite element analysis"	Clearly relevant
CEN/TC 250/SC 4 Eurocode 4	: Design of composite steel and concrete structures	
Published		
	Eurocode 4 - Design of composite steen and concrete structures -	Clearly
EN 1994-2:2005	Part 2: General rules and rules for bridges	relevant
Under development		
	Eurocode 4 - Design of composite steen and concrete structures -	Clearly
prEN 1994-2 rev	Part 2: General rules and rules for bridges	relevant
CEN/TC 250/SC 8 Eurocode	8: Earthquake resistance design of structures	
Published		
	Eurocode 8: Design of structures for earthquake resistance - Part 1:	Clearly
EN 1998-1:2004	General rules, seismic actions and rules for buildings	relevant
	Eurocode 8: Design of structures for earthquake resistance Part 5:	Clearly
EN 1998-5:2004	Foundations, retaining structures and geotechnical aspects	relevant
	Eurocode 8 - Design of structures for earthquake resistance - Part 2:	Clearly
EN 1998-2:2005	Bridges	relevant
	Eurocode 8: Design of structures for earthquake resistance - Part 3:	Clearly
EN 1998-3:2005	Assessment and retrofitting of buildings	relevant
	Eurocode 8: Design of structures for earthquake resistance - Part 6:	Clearly
EN 1998-6:2005	Towers, masts and chimneys	relevant
EN 1000 4-2000	Eurocode 8 - Design of structures for earthquake resistance - Part 4:	Clearly
EN 1998-4:2006	Silos, tanks and pipelines	relevant
CEN/TC 391: Societal and Cit		
Published		Interactive
EN ISO 22300:2018	Security and resilience - Vocabulary (ISO 22300:2018)	Interesting as info
Under development		
		Interesting
	Security and resilience - Vocabulary	as info
CEN/TC 442 Building Informa	ation Modelling (BIM)	
Published		
	Industry Foundation Classes (IFC) for data sharing in the construction	Interesting
EN ISO 16739:2016	and facility management industries (ISO 16739:2013)	as info





8.4 STANDARDS RELATED TO WP 7

WP 7 Standards sortered by	
<u>interest</u>	









ISO/TC 59/SC 2 Buildings a	nd civil engineering works. Terminology and harmonization of languages	
Published		
ISO 7078:1985	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes	Slightly related
ISO 6707-3:2017	Buildings and civil engineering works Vocabulary Part 3: Sustainability terms	Slightly related
ISO 1791:1983	Building construction Modular co-ordination Vocabulary	Interesting as info
Under development		
ISO/WD 7078	Building construction Procedures for setting out, measurement and surveying Vocabulary and guidance notes	Slightly related
ISO/WD 6707-1	Buildings and civil engineering works Vocabulary Part 1: General terms	Interesting as info
	tion and digitization of information about buildings and civil engineering w tion modelling (BIM)	
Published		
ISO 29481-1:2016	Building information models Information delivery manual Part 1: Methodology and format	Clearly
Vienna Agreement ISO 29481-2:2012	Building information models Information delivery manual Part	relevant
Vienna Agreement	2: Interaction framework	Clearly relevant
ISO 22263:2008	Organization of information about construction works Framework for management of project information	Interesting as info
ISO 19650-1:2018	Organization and digitization of information about buildings and civil engineering works, including building information modelling	
Vienna Agreement	(BIM) Information management using building information modelling Part 1: Concepts and principles	Interesting as info
ISO 16739-1:2018	Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries Part 1: Data schema	Interesting as info
ISO 16354:2013	Guidelines for knowledge libraries and object libraries	Interesting as info
ISO/TS 12911:2012	Framework for building information modelling (BIM) guidance	Interesting as info
ISO 12006-2:2015	Building construction Organization of information about construction works Part 2: Framework for classification	Clearly relevant
Under development		
ISO/AWI TR 23262	GIS (Geospatial) / BIM interoperability	Interesting as info
ISO/TC 85/SC 2 Radiologica	al protection	
Published		
ISO 16647:2018	Nuclear facilities — Criteria for design and operation of confinement systems for nuclear worksite and for nuclear installations under decommissioning	Clearly relevant
Published		
ISO 22111:2007	Bases for design of structures General requirements	





		Slightly related
ISO 13824:2009	Bases for design of structures General principles on risk	Clearly
150 15824.2003	assessment of systems involving structures	relevant
ISO 13823:2008		
130 13823.2008	General principles on the design of structures for durability	Interesting as info
ISO 13822:2010		Slightly
130 13822.2010	Bases for design of structures Assessment of existing structures	related
ISO 12491:1997	Statistical methods for quality control of building materials and	Interesting
150 12491.1997	components	as info
ISO 10137:2007	Bases for design of structures - Serviceability of buildings and	Interesting
150 10157.2007	walkways against vibrations	as info
ISO 4356:1977	Bases for the design of structures Deformations of buildings at	Slightly
130 4330.1377	the serviceability limit states	related
150 2204-2015		
ISO 2394:2015	General principles on reliability for structures	Slightly related
		related
Under development		
ISO/CD 13824	Bases for design of structures General principles on risk	Clearly
100/100/100	assessment of systems involving structures	relevant
ISO/AWI 23618	Design Principles of Seismically Isolated structures	Clearly
		relevant
ISO/DIS 22111	Bases for design of structures General requirements	Clearly
		relevant
ISO/NP 4356	Bases for the design of structures Deformations of buildings at	Slightly
	the serviceability limit states	related
ISO/TC 98/SC 3 Bases for	design of structures. Loads, forces and other actions	
Published		
ISO 23469:2005	Bases for design of structures Seismic actions for designing	Clearly
	geotechnical works	relevant
ISO 21650:2007	Actions from waves and currents on coastal structures	Interesting
	Actions from waves and currents on coastal structures	as info
ISO 13033:2013	Bases for design of structures Loads, forces and other actions	
	Seismic actions on non-structural components for building	Clearly
	applications	relevant
ISO/TR 12930:2014		Clearly
	Seismic design examples based on ISO 23469	relevant
ISO 12494:2017		Clearly
	Atmospheric icing of structures	relevant
ISO 4355:2013	Bases for design of structures Determination of snow loads on	Interesting
	roofs	as info
ISO 4354:2009		Clearly
	Wind actions on structures	relevant
ISO 3010:2017		Clearly
100 0010.2017	Bases for design of structures Seismic actions on structures	relevant
ISO 2633:1974	Determination of imposed floor loads in production buildings and	Clearly
130 2033.13/4	warehouses	
		relevant
ISO/TC 207 ENVIRONMEN	TAL management	
Published		





iso 14050:2009	Environmental management - vocabulary	
	buse gas management and related activities	
Under development		
ISO/AWI 14097	Framework and principles for assessing and reporting investments and financing activities related to climate change	Clearly relevant
ISO/CD 14091	Adaptation to climate change Vulnerability, impacts and risk assessment	Clearly relevant
ISO/FDIS 14090	Adaptation to climate change Principles, requirements and guidelines	Clearly relevant
ISO/TC 251 Asset manage	ement	
Published		
ISO 55001:2014	Asset management — Management systems — Requirements	Clearly relevant
ISO/TC 262 Risk managen	nent	
Published		
IEC 31010:2009	Risk management Risk assessment techniques	Clearly relevant
ISO/TR 31004:2013	Risk management Guidance for the implementation of ISO 31000	Clearly relevant
ISO 31000:2018	Risk management Guidelines	Clearly relevant
Under development		
ISO/NP 31073	Risk management terminology	Slightly related
ISO/AWI 31030	Risk management Managing travel risks Guidance for organizations	Clearly relevant
ISO/CD 31022	Risk management Guidelines for the management of legal risk	Slightly related
ISO/NP 31050	Guidance for managing emerging risks to enhance resilience	Clearly relevant
IEC/DIS 31010	Risk management Risk assessment techniques	Clearly relevant
NP IWA 31	Using ISO 31000 guidance on risk management in management systems	Clearly relevant
ISO/TC 292 Security and r	,	. c.c.vand
Published		
ISO 28004-1:2007	Security management systems for the supply chain Guidelines for the implementation of ISO 28000 Part 1: General principles	Slightly
ISO 28004-3:2014	Security management systems for the supply chain Guidelines for the implementation of ISO 28000 Part 3: Additional specific guidance for adopting ISO 28000 for use by medium and small	related
ISO 28004-4:2014	businesses (other than marine ports) Security management systems for the supply chain Guidelines for the implementation of ISO 28000 Part 4: Additional specific	Slightly related





	guidance on implementing ISO 28000 if compliance with ISO 28001	
	is a management objective	
ISO 28003:2007	Security management systems for the supply chain Requirements	
	for bodies providing audit and certification of supply chain security	Slightly
	management systems	related
ISO 28002:2011	Security management systems for the supply chain Development	
	of resilience in the supply chain Requirements with guidance for	Slightly
	use	related
ISO/TS 22375:2018	Security and resilience Guidelines for complexity assessment	Clearly
	process	relevant
ISO/TR 22351:2015	Societal security Emergency management Message structure	Clearly
	for exchange of information	relevant
ISO/TS 22331:2018	Security and resilience Business continuity management systems -	Clearly
	- Guidelines for business continuity strategy	relevant
ISO/TS 22330:2018	Security and resilience Business continuity management systems -	Clearly
	- Guidelines for people aspects of business continuity	relevant
ISO 22327:2018	Security and resilience Emergency management Guidelines for	
	implementation of a community-based landslide early warning	Clearly
	system	relevant
ISO 22326:2018	Security and resilience Emergency management Guidelines for	Clearly
	monitoring facilities with identified hazards	, relevant
ISO 22324:2015	Societal security Emergency management Guidelines for	Interesting
	colour-coded alerts	as info
ISO 22322:2015	Societal security Emergency management Guidelines for public	Interesting
	warning	as info
ISO 22320:2018	Security and resilience Emergency management Guidelines for	Interesting
100 2202012020	incident management	as info
ISO 22319:2017	Security and resilience Community resilience Guidelines for	Slightly
100 22010.2017	planning the involvement of spontaneous volunteers	related
ISO/TS 22318:2015	Societal security Business continuity management systems	Interesting
130/13 22310.2013	Guidelines for supply chain continuity	as info
ISO/TS 22317:2015	Societal security Business continuity management systems	Interesting
150/15/22517.2015	Guidelines for business impact analysis (BIA)	as info
ISO 22316:2017	Security and resilience Organizational resilience Principles and	Clearly
150 22510.2017	attributes	relevant
ISO 22315:2014		
130 22515.2014	Societal security Mass evacuation Guidelines for planning	Clearly relevant
ISO 22313:2012		Televalit
130 22515.2012	Societal security Business continuity management systems	Interaction.
Vionna Agraamast	Guidance	Interesting
Vienna Agreement		as info
ISO 22311:2012		
	Societal security Video-surveillance Export interoperability	Interesting
Vienna Agreement		as info
ISO 22301:2012	Societal security Business continuity management systems	
	Requirements	Interesting
Vienna Agreement		as info
ISO 22300:2018	Security and resilience Vocabulary	Interesting
	-,	as info





Vienna Agreement		
Under development		
ISO/WD 22313		
,	Security and resilience Business continuity management systems -	Interesting
Vienna Agreement	- Guidance	as info
ISO/WD 22384	Security and resilience Authenticity, integrity and trust for	
	products and documents Guidelines to establish and monitor a	Clearly
	protection plan and its implementation	relevant
ISO/NP 22383	Security and resilience Authenticity, integrity and trust for	relevant
130/111 22303	products and documents Performance criteria for authentication	
	solutions used to ensure genuineness and integrity of material	Clearly
	goods	relevant
ISO/PWI 23804		Clearly
130/ F WI 23804	Security and resilience Emergency management Framework	relevant
	Cogurity and reciliance Community reciliance Decourse	
ISO/PWI 23803	Security and resilience Community resilience Resource	Clearly
100/00/01/2011/0	management	relevant
ISO/PWI 23110	Protective security Basic elements for organization	Clearly
		relevant
ISO/PWI 23109	Public Private Partnership (PPP) based on local resilience	Clearly
	enhancement to contribute to sustainable development	relevant
ISO/PWI 22815	Framework and principles for methodologies on urban resilience	Clearly
		relevant
ISO/DIS 22396	Security and resilience Community resilience Guidelines for	Clearly
	information exchange between organizations	relevant
ISO/CD 22392	Security and resilience Community resilience Guidelines for	Slightly
	conducting peer reviews	related
ISO/CD TR 22370	Security and resilience Framework and principles for urban	Interesting
	resilience	as info
ISO/AWI 22342	Security and resilience Protective security Guidelines for the	Clearly
	development of a security plan for an organization	relevant
ISO/AWI TS 22332	Security and resilience Business continuity management systems -	Interesting
	- Guidance for developing business continuity procedures	as info
ISO/AWI 22329	Security and resilience Emergency management Guidelines for	Clearly
,	the use of social media in emergencies	relevant
ISO/DIS 22328-1	Security and resilience Emergency management Community-	
1307013 22320 1	based disaster early warning system Part 1: Guidelines for	
	implementation of a community-based disaster early warning	Clearly
	system	relevant
ISO/DIS 22301		relevante
130/013 22301	Security and resilience Business continuity management systems -	Clearly
Vienna Agreement	- Requirements	relevant
		Televant
ISO/NP 22300	Convrity and resilience Vecabulary	Interesting
Vienne Agreent	Security and resilience Vocabulary	Interesting
Vienna Agreement	and evetopes for rolling a	as info
IEC 9 Electrical equipment	and systems for railways	
Published		
	Railway applications - Electric equipment for rolling stock - Part 1:	Interesting
IEC 60077-1:2017	General service conditions and general rules	as info





	Railway applications - Electric equipment for rolling stock - Part 1:	Interesting
IEC 60077-1:2017 RLV	General service conditions and general rules	as info
	Railway applications - Electric equipment for rolling stock - Part 2:	Interesting
IEC 60077-2:2017	Electrotechnical components - General rules	as info
	Railway applications - Electric equipment for rolling stock - Part 2:	Interesting
IEC 60077-2:2017 RLV	Electrotechnical components - General rules	as info
	Railway applications - Electric equipment for rolling stock - Part 3:	Interesting
IEC 60077-3:2001	Electrotechnical components - Rules for d.c. circuit-breakers	as info
	Railway applications - Electric equipment for rolling stock - Part 4:	Interesting
IEC 60077-4:2003	Electrotechnical components - Rules for AC circuit-breakers	as info
	Railway applications - Electric equipment for rolling stock - Part 5:	Interesting
IEC 60077-5:2003	Electrotechnical components - Rules for HV fuses	as info
	Railway applications - Electronic equipment used on rolling stock	Interesting
IEC 60571:2012		as info
	Railway applications - Power converters installed on board rolling	Slightly
IEC 61287-1:2014	stock - Part 1: Characteristics and test methods	related
IEC TS 61207 2:2001	Power convertors installed on board railway rolling stock - Part 2: Additional technical information	Slightly related
IEC TS 61287-2:2001	Railway applications - Fixed installations - DC switchgear - Part 1:	Slightly
IEC 61992-1:2006	General	related
120 01332-1.2000	Railway applications - Fixed installations - DC switchgear - Part 2: DC	Slightly
IEC 61992-2:2006	circuit-breakers	related
	Railway applications - Fixed installations - DC switchgear - Part 3:	
	Indoor d.c. disconnectors, switch-disconnectors and earthing	Slightly
IEC 61992-3:2006	switches	related
	Railway applications - Fixed installations - DC switchgear - Part 4:	
	Outdoor d.c. disconnectors, switch-disconnectors and earthing	Slightly
IEC 61992-4:2006	switches	related
	Railway applications - Fixed installations - DC switchgear - Part 6: DC	Slightly
IEC 61992-6:2006	switchgear assemblies	related
	Railway applications - Fixed installations - DC switchgear - Part 7-1:	
	Measurement, control and protection devices for specific use in d.c.	Slightly
IEC 61992-7-1:2006	traction systems - Application guide	related
	Railway applications - Fixed installations - DC switchgear - Part 7-2: Measurement, control and protection devices for specific use in d.c.	
	traction systems - Isolating current transducers and other current	Slightly
IEC 61992-7-2:2006	measuring devices	related
	Railway applications - Fixed installations - DC switchgear - Part 7-3:	
	Measurement, control and protection devices for specific use in d.c.	
	traction systems - Isolating voltage transducers and other voltage	Slightly
IEC 61992-7-3:2006	measuring devices	related
	Railway applications - Fixed installations - Electrical safety, earthing	
	and the return circuit - Part 1: Protective provisions against electric	Slightly
IEC 62128-1:2013	shock	related
	Railway applications - Fixed installations - Electrical safety, earthing	
	and the return circuit - Part 2: Provisions against the effects of stray	Slightly
IEC 62128-2:2013	currents caused by d.c. traction systems	related





	Railway applications - Fixed installations - Electrical safety, earthing	
	and the return circuit - Part 3: Mutual interaction of a.c. and d.c.	Slightly
IEC 62128-3:2013	traction systems	related
12C 02128-3.2013		Clearly
150 0000	Railway applications - Specification and demonstration of reliability,	· · ·
IEC 62278:2002	availability, maintainability and safety (RAMS)	relevant
	Railway applications - Specification and demonstration of reliability,	
	availability, maintainability and safety (RAMS) - Part 3: Guide to the	Clearly
IEC TR 62278-3:2010	application of IEC 62278 for rolling stock RAM	relevant
	Railway applications - Specification and demonstration of reliability,	
	availability, maintainability and safety (RAMS) - Part 4: RAM risk and	Clearly
IEC TR 62278-4:2016	RAM life cycle aspects	relevant
	Railway applications - Fixed installations - Particular requirements	
	for AC switchgear - Part 2: Disconnectors, earthing switches and	Interesting
IEC 62505-2:2016	switches with nominal voltage above 1 kV	as info
	Railway applications - Fixed installations - Particular requirements	
	for a.c. switchgear - Part 3-1: Measurement, control and protection	Interesting
IEC 62505-3-1:2009	devices for specific use in a.c. tractions systems - Application guide	as info
CEN/ TC 226 Road equipment		
Published		
Published		Clearly
EN 1071 2000	Road marking materials - Physical properties	Clearly
EN 1871:2000		relevant
	Road marking materials - Road trials	Clearly
EN 1824:1998		relevant
	Road marking materials - Wear simulators	Clearly
EN 13197:2001		relevant
	Road marking materials - Retroflecting road studs - Part 1: Initial	Clearly
EN 1463-1:1997	performance requirements	relevant
	Fixed ventical model traffic sizes. Dout 1. Fixed sizes	Clearly
EN 12899-1:2001	Fixed, vertical road traffic signs - Part 1: Fixed signs	relevant
	Vertical road signs - Portable deformable warning devices and	Clearly
EN 13422:2004	delineators - Portable road traffic signs - Cones and cylinders	relevant
	Road vertical signs - Variable message traffic signs - Part 1: Product	
		Clearly
EN 12966-1:2005		Clearly relevant
EN 12966-1:2005	standard	relevant
	standard Road marking materials - Quality control - Part 1: Sampling from	relevant Clearly
EN 12966-1:2005 ENV 13459-1:1999	standard Road marking materials - Quality control - Part 1: Sampling from storage and testing	relevant Clearly relevant
ENV 13459-1:1999	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for	relevant Clearly relevant Clearly
ENV 13459-1:1999	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials application	relevant Clearly relevant Clearly relevant
ENV 13459-1:1999 ENV 13459-2:1999	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in	relevant Clearly relevant Clearly relevant Clearly
ENV 13459-1:1999 ENV 13459-2:1999	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in use	relevant Clearly relevant Clearly relevant Clearly relevant
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for	relevant Clearly relevant Clearly relevant Clearly relevant Clearly
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in use	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999 EN 1317-1:2010	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for test methods	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant
	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant Interesting as info
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999 EN 1317-1:2010	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for test methodsRoad marking materials - Road trials	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999 EN 1317-1:2010 EN 1824:2011	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for test methods	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant Interesting as info
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999 EN 1317-1:2010 EN 1824:2011	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for test methodsRoad marking materials - Road trialsRoad marking materials - Laboratory methods for identification	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant Interesting as info Interesting
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999 EN 1317-1:2010	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for test methodsRoad marking materials - Road trials	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant Interesting as info
ENV 13459-1:1999 ENV 13459-2:1999 ENV 13459-3:1999 EN 1317-1:2010 EN 1824:2011 EN 12802:2011	standardRoad marking materials - Quality control - Part 1: Sampling from storage and testingRoad marking materials - Quality control - Part 2: Guidelines for preparing quality plans for materials applicationRoad marking materials - Quality control - Part 3: Performance in useRoad restraint systems - Part 1: Terminology and general criteria for test methodsRoad marking materials - Road trialsRoad marking materials - Laboratory methods for identification	relevant Clearly relevant Clearly relevant Clearly relevant Clearly relevant Interesting as info Interesting as info







	Road traffic noise reducing devices - Non-acoustic performance -	
511 4 70 4 0 001 0	Part 3: Reaction to fire - Burning behaviour of noise reducing	Interesting
EN 1794-3:2016	devices and classification	as info
Under development		
prEN 1824	Road marking materials - Road trials	Interesting as info
CEN/ TC 227 ROAD MATERIAL	S	
Published		
EN 13108-3:2016	Bituminous mixtures - Material specifications - Part 3: Soft Asphalt	Clearly relevant
13108-2:2016	Bituminous mixtures - Material specifications - Part 2: Asphalt Concrete for Very Thin Layers (BBTM)	Clearly relevant
EN 13108-1:2016	Bituminous mixtures - Material specifications - Part 1: Asphalt Concrete	Clearly relevant
EN 13108-4:2016/AC:2017	Bituminous mixtures - Material specifications - Part 4: Hot Rolled Asphalt	Clearly relevant
EN 13108-31:2019	Bituminous mixtures - Material specifications - Part 31: Asphalt Concrete with Bituminous Emulsion	Clearly relevant
EN 13108-5:2016	Bituminous mixtures - Material specifications - Part 5: Stone Mastic Asphalt	Clearly relevant
EN 13108-6:2016	Bituminous mixtures - Material specifications - Part 6: Mastic Asphalt	Clearly relevant
EN 13108-4:2016	Bituminous mixtures - Material specifications - Part 4: Hot Rolled Asphalt	Clearly relevant
EN 13108-8:2016	Bituminous mixtures - Material specifications - Part 8: Reclaimed asphalt	Clearly relevant
EN 13108-20:2016	Bituminous mixtures - Material specifications - Part 20: Type Testing	Clearly relevant
EN 13108-7:2016	Bituminous mixtures - Material specifications - Part 7: Porous Asphalt	Clearly relevant
EN 13108-9:2016	Bituminous mixtures - Material specifications - Part 9: Asphalt for Ultra-Thin Layer (AUTL)	Clearly relevant
CEN/TC 250/SC 2 Eurocode 2	: Design of concrete structures	
Published		
EN 1992-1-1:2004	Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings	Interesting as info
EN 1992-1-2:2004	Eurocode 2: Design of concrete structures - Part 1-2: General rules - Structural fire design	Interesting as info
EN 1992-2:2005	Eurocode 2 - Design of concrete structures - Concrete bridges - Design and detailing rules	Clearly relevant
CEN/TS 1992-4-1:2009	Design of fastenings for use in concrete - Part 4-1: General	Interesting as info
CEN/TS 1992-4-2:2009	Design of fastenings for use in concrete - Part 4-2: Headed Fasteners	Clearly relevant
CEN/TS 1992-4-3:2009	Design of fastenings for use in concrete - Part 4-3: Anchor channels	Clearly relevant
CEN/TS 1992-4-4:2009	Design of fastenings for use in concrete - Part 4-4: Post-installed fasteners - Mechanical systems	Clearly relevant





CEN/TS 1992-4-5:2009	Design of fastenings for use in concrete - Part 4-5: Post-installed fasteners - Chemical systems	Clearly relevant
	Eurocode 2 - Design of concrete structures - Part 4: Design of	Clearly
EN 1992-4:2018	fastenings for use in concrete	relevant
	Design of fastenings for use in concrete - Redundant non-structural	Interesting
CEN/TR 17079:2018	systems	as info
Under development		
	Eurocode 3 - Design of steel structures - Part 1-6: Strength and	Clearly
orEN 1993-1-7 rev	Stability of Shell Structures	relevant
	Eurocode 3: Design of steel structures - Part 1-7: Plate assemblies	Clearly
prEN 1993-4-1 rev	with elements under transverse loads	relevant
CEN /TC 250/SC 3 Eurocode 3	- Design of steel structures	
Published		
	Eurocode 3: Design of steel structures - Part 1-2: General rules -	Clearly
EN 1993-1-2:2005	Structural fire design	relevant
	Eurocode 3: Design of steel structures - Part 1-1: General rules and	Clearly
EN 1993-1-1:2005	rules for buildings	relevant
		Clearly
EN 1993-1-8:2005	Eurocode 3: Design of steel structures - Part 1-8: Design of joints	relevant
		Clearly
EN 1993-1-9:2005	Eurocode 3: Design of steel structures - Part 1-9: Fatigue	relevant
	Eurocode 3: Design of steel structures - Part 1-10: Material	Clearly
EN 1993-1-10:2005	toughness and through-thickness properties	relevant
10.2003	Eurocode 3 - Design of steel structures - Part 1-3: General rules -	Clearly
EN 1993-1-3:2006	Supplementary rules for cold-formed members and sheeting	relevant
1999 1 9.2000	Eurocode 3 - Design of steel structures - Part 1-4: General rules -	Clearly
EN 1993-1-4:2006	Supplementary rules for stainless steels	relevant
1999 1 4.2000	Eurocode 3 - Design of steel structures - Part 1-5: Plated structural	Clearly
EN 1993-1-5:2006	elements	relevant
EN 1993-1-3.2000		Clearly
EN 1993-2:2006	Eurocode 3 - Design of steel structures - Part 2: Steel Bridges	relevant
1999-2.2000	Eurocode 3 - Design of steel structures - Part 1-11: Design of	Clearly
EN 1993-1-11:2006	structures with tension components	relevant
1993-1-11.2000	Eurocode 3 — Design of steel structures — Part 1-13: Rules for	Clearly
EN 1993-1-13	beams with large web openings	relevant
1992-1-12	Eurocode 3 — Design of steel structures — Part 1-14: Design	Clearly
EN 1993-1-14		· · · · · ·
EN 1993-1-14	assisted by finite element analysis"	relevant
EN 1002 2 1.2000	Eurocode 3 - Design of steel structures - Part 3-1: Towers, masts	Clearly
EN 1993-3-1:2006	and chimneys - Towers and masts	relevant
N 1002 2 2.2000	Eurocode 3 - Design of steel structures - Part 3-2: Towers, masts	Clearly
EN 1993-3-2:2006	and chimneys - Chimneys	relevant
EN 1002 1 C-2007	Eurocode 3 - Design of steel structures - Part 1-6: Strength and	Clearly
EN 1993-1-6:2007	Stability of Shell Structures	relevant
	Eurocode 3 - Design of steel structures - Part 1-7: Plated structures	Clearly
EN 1993-1-7:2007	subject to out of plane loading	relevant
Under development		
511 1 2 2 2 2	Eurocode 3: Design of steel structures - Part 3: Buildings (will	Clearly
prEN 1993-3	replace ENV 1993-1-1:1992)	relevant





prEN 1002 1 12 rov	Design of steel structures - Part 1-12: Additional rules for steel	Clearly relevant
prEN 1993-1-12 rev	grades up to S960" for the revised version. Eurocode 3 — Design of steel structures — Part 7: Design of	Clearly
	sandwich panels	relevant
prEN 1993-6 rev	Eurocode 3 - Design of steel structures - Part 6: Crane supporting structures	Clearly relevant
CEN/TC 250/SC 4 Eurocode 4	: Design of composite steel and concrete structures	
Published		
EN 1994-1-2:2005	Eurocode 4 - Design of composite steel and concrete structures - Part 1-2: General rules - Structural fire design	Clearly relevant
EN 1994-2:2005	Eurocode 4 - Design of composite steen and concrete structures - Part 2: General rules and rules for bridges	Clearly relevant
Under development		
prEN 1994-2 rev	Eurocode 4 - Design of composite steen and concrete structures - Part 2: General rules and rules for bridges	Clearly relevant
	Eurocode 4: Design of composite steel and concrete structures -	Clearly
prEN 1994-1-1 rev	Part 1-1: General rules and rules for buildings	relevant
511 400 4 4 0	Eurocode 4 - Design of composite steel and concrete structures -	Clearly
prEN 1994-1-2 rev	Part 1-2: General rules - Structural fire design	relevant
	Design rules for steel- Concrete-steel construction	Clearly relevant
	Design rules for the use of Composite Dowels	Clearly relevant
	Design rules for composite columns comprising high performance materials	Clearly relevant
CEN/TC 250/SC 8 Eurocode 8	3: Earthquake resistance design of structures	
Published		
	Eurocode 8: Design of structures for earthquake resistance - Part 1:	Clearly
EN 1998-1:2004	General rules, seismic actions and rules for buildings	relevant
	Eurocode 8: Design of structures for earthquake resistance Part 5:	Clearly
EN 1998-5:2004	Foundations, retaining structures and geotechnical aspects	relevant
	Eurocode 8 - Design of structures for earthquake resistance - Part 2:	Clearly
EN 1998-2:2005	Bridges	, relevant
	Eurocode 8: Design of structures for earthquake resistance - Part 3:	Clearly
EN 1998-3:2005	Assessment and retrofitting of buildings	relevant
Under development		
No documents under		
development		
CEN/TC 256 Railway applicati	ons	
Published		
	Technical drawings - Railway applications - Part 1: General	Clearly
EN 15016-1:2004	Principles	relevant
EN 13674-4:2006+A1:2009	Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m	Interesting as info
LIV 13074-4.2000+A1.2005	Railway applications - Fire protection on railway vehicles - Part 1:	Interesting
EN 45545-1:2013	General	as info
	Railway applications - Fire protection on railway vehicles - Part 3:	Interesting
EN 45545-3:2013	Fire resistance requirements for fire barriers	as info





	Railway applications - Fire protection on railway vehicles - Part 4:	Interesting
EN 45545-4:2013	Fire safety requirements for rolling stock design	as info
	Railway applications - Fire protection on railway vehicles - Part 6:	Interesting
EN 45545-6:2013	Fire control and management systems	as info
	Railway applications - Track - Safety protection on the track during	
	work - Part 1: Railway risks and common principles for protection of	Interesting
EN 16704-1:2016	fixed and mobile work sites	as info
	Railway applications - Fire protection on railway vehicles - Part 7:	
	Fire safety requirements for flammable liquid and flammable gas	Interesting
EN 45545-7:2013	installations	as info
	Railway applications - Track - Concrete sleepers and bearers - Part	Interesting
EN 13230-1:2016	1: General requirements	as info
	Railway applications - Track - Concrete sleepers and bearers - Part	Interesting
EN 13230-2:2016	2: Prestressed monoblock sleepers	as info
	Railway applications - Track - Noise barriers and related devices	
	acting on airborne sound propagation - Test method for	
	determining the acoustic performance - Part 1: Intrinsic	
	characteristics - Sound absorption in the laboratory under diffuse	Interesting
EN 16272-1:2012	sound field conditions	as info
	Railway applications - Track - Concrete sleepers and bearers - Part	Interesting
EN 13230-3:2016	3: Twin-block reinforced sleepers	as info
	Railway applications - Track - Concrete sleepers and bearers - Part	Interesting
EN 13230-4:2016	4: Prestressed bearers for switches and crossings	as info
	Railway applications - Track - Concrete sleepers and bearers - Part	Interesting
EN 13230-5:2016	5: Special elements	as info
	Railway applications - Infrastructure - Non-destructive testing on	
	rails in track - Part 1: Requirements for ultrasonic inspection and	Slightly
EN 16729-1:2016	evaluation principles	related
	Railway applications - Track - Concrete sleepers and bearers with	Slightly
EN 16730:2016	under sleeper pads	related
	Railway applications - Track - Track geometry quality - Part 1:	Slightly
EN 13848-1:2019	Characterization of track geometry	related
	Railway applications - Fire protection on railway vehicles - Fire	Interesting
EN 16989:2018	behaviour test for a complete seat	as info
	Railway applications - Fire protection on railway vehicles - Toxicity	Interesting
EN 17084:2018	test of materials and components	as info
	Railway applications - Track - Test methods for fastening systems -	Slightly
EN 13146-4:2012+A1:2014	Part 4: Effect of repeated loading	related
	Railway applications - Ballastless track systems - Part 1: General	Interesting
EN 16432-1:2017	requirements	as info
21, 10132 1.2017	Railway applications - Track - Performance requirements for	Interesting
EN 13481-2:2012+A1:2017	fastening systems - Part 2: Fastening systems for concrete sleepers	as info
LIN 13401 2.2012 MI.2017		Slightly
EN 15016-2:2004/AC:2007	Technical drawings - Railway applications - Part 2: Parts lists	related
Under development:		
	Railway applications - Infrastructure - Plastic sleepers and bearers -	Slightly
nrEN 17210 2		related
prEN 17318-2	Part 2: Product testing Railway applications Track Test methods for factoning systems	
prEN 12116 0	Railway applications - Track - Test methods for fastening systems - Part 9: Determination of stiffness	Slightly
prEN 13146-9	rait 9. Determination of stimess	related





	Railway applications - Infrastructure - Performance requirements of	Slightly
prEN 17319	rail fastening systems for tramways - Complementary element	related
	Railway applications - Fire protection on railway vehicles - Part 2:	Interesting
prEN 45545-2	Requirements for fire behavior of materials and components	as info
CEN/TC 391: Societal and (Citizen Security	1
Published		
CEN/TS 16595:2013	CBRN - Vulnerability Assessment and Protection of People at Risk	Interesting as info
CEN/TS 16850:2015	Societal and Citizen Security - Guidance for managing security in healthcare facilities	Slightly related
CEN/TS 17091:2018	Crisis management - Guidance for developing a strategic capability	Interesting as info
	Societal and citizen security - Guidance for the security of	Interesting
CEN/TS 17159:2018	hazardous materials (CBRNE) in healthcare facilities	as info
EN ISO 22300:2018	Security and resilience - Vocabulary (ISO 22300:2018)	Clearly relevant
	Societal security - Business continuity management systems -	Slightly
EN ISO 22301:2014	Requirements (ISO 22301:2012)	related
	Societal security - Video-surveillance - Export interoperability (ISO	Slightly
EN ISO 22311:2014	22311:2012)	related
	Societal security - Business continuity management systems -	Interesting
EN ISO 22313:2014	Guidance (ISO 22313:2012)	as info
EN ISO 22315:2018	Societal security - Mass evacuation - Guidelines for planning (ISO 22315:2014)	Clearly relevant
	Societal security - Guidelines for establishing partnering	Interesting
EN ISO 22397:2018	arrangements (ISO 22397:2014)	as info
Under development		
	Security and resilience - Vocabulary	Interesting as info
CEN/TC 442 Building Inform	mation Modelling (BIM)	
Published		
EN ISO 29481-2:2016	Building information models - Information delivery manual - Part 2: Interaction framework (ISO 29481-2:2012)	Interesting as info
	Industry Foundation Classes (IFC) for data sharing in the	Interesting
EN ISO 16739:2016	construction and facility management industries (ISO 16739:2013)	as info
	Building construction - Organization of information about	
	construction works - Part 3: Framework for object-oriented	Interesting
EN ISO 12006-3:2016	information (ISO 12006-3:2007)	as info
	Organization and digitization of information about buildings and	
	civil engineering works, including building information modelling	
	(BIM) - Information management using building information	Interesting
EN ISO 19650-1:2018	modelling - Part 1: Concepts and principles (ISO 19650-1:2018)	as info
	Organization and digitization of information about buildings and	
	civil engineering works, including building information modelling	
	(BIM) - Information management using building information	Interesting
EN ISO 19650-2:2018	modelling - Part 2: Delivery phase of the assets (ISO 19650-2:2018)	as info
	Building information models - Information delivery manual - Part 1:	Interesting
EN ISO 29481-1:2017	Methodology and format (ISO 29481-1:2016)	as info
Under development		





Building information modelling and other digital processes used in	
construction - Methodology to describe, author and maintain	Interesting
properties in interconnected dictionaries (ISO/DIS 23386:2019)	as info
Building Information Modeling - Level of Information Need - Part 1:	Interesting
Concepts and principles	as info
	Interesting
	as info
•	
	Interesting
	as info
	Interesting
information	as info
Guidance on how to implement EN ISO 19650 1 and 2 in Europa	Slightly
	related
fire fighting equipment	
Classification of fires	Interesting
Mahila finanziahana Dant 1 Chanadani di ang famuana and	as info
-	Interesting as info
	asiiiiu
EN 54 - Fire detection and fire alarm systems - Interpretation of	Interesting
specific clauses of EN 54-2:1997	as info
Fire detection and fire alarm systems - Part 14: Guidelines for	Interesting
planning, design, installation, commissioning, use and maintenance	as info
Fire detection and fire alarm systems - Part 32: Planning, design,	
installation, commissioning, use and maintenance of voice alarm	Interesting
systems	as info
Smoke alarm devices	Interesting
	as info
Fire detection and fire alarm systems - Part 1: Introduction	Interesting
dinan	as info
-	Interacting
	Interesting as info
-	431110
	Interesting
Underground fire hydrants	as info
Dillar fina hudranta	Interesting
Pillar fire hydrants	as info
	properties in interconnected dictionaries (ISO/DIS 23386:2019) Building Information Modeling - Level of Information Need - Part 1: Concepts and principles Product data templates, for products and systems used in construction works, stored in a data dictionary framework - Part 1: General concepts, relations, and general structure of product data templates, and how to link the product data templates to Industry Foundation Classes (IFC Organization of information about construction works Information management using building information modelling Part 5: Specification for security-minded building information modelling, digital built environments and smart asset management Building construction Organization of information about construction works Part 3: Framework for object-oriented information Guidance on how to implement EN ISO 19650-1 and -2 in Europe ire fighting equipment Classification of fires Mobile fire extinguishers - Part 1: Characteristics, performance and test methods fire alarm systems EN 54 - Fire detection and fire alarm systems - Interpretation of specific clauses of EN 54-2:1997 Fire detection and fire alarm systems - Interpretation of specific clauses of EN 54-2:1997 Fire detection and fire alarm systems - Part 32: Planning, design, installation, commissioning, use and maintenance Fire detection and fire alarm systems - Part 32: Planning, design, installation, commissioning, use and maintenance Smoke alarm devices





ISO 8201:2017	Alarm systems — Audible emergency evacuation signal —	Interesting
	Requirements	as info
ISO 3941:2007	Classification of fires	Interesting as info
	Components for fire-extinguishing systems using gas—	
	Requirements and test methods — Container valve assemblies and	
ISO 16003:2008	their actuators; selector valves and their actuators; nozzles; flexible	Interesting
	and rigid connectors; and check valves and non-return valves	as info
	Condensed aerosol fire extinguishing systems — Requirements and	
ISO 15779:2011	test methods for components and system design, installation and	Interesting
130 1377 5.2011	maintenance — General requirements	as info
	Explosion protection systems — Part 1: Determination of explosion	Interesting
ISO 6184-1:1985	indices of combustible dusts in air	as info
		Interesting
ISO 6184-2:1985	Explosion protection systems — Part 2: Determination of explosion indices of combustible gases in air	as info
	Explosion protection systems — Part 3: Determination of explosion	Interesting
ISO 6184-3:1985	indices of fuel/air mixtures other than dust/air and gas/air mixtures	as info
	Fire detection and alarm systems — Part 19: Design, installation,	asiiii0
10.2007	commissioning and service of sound systems for emergency	Interacting
ISO 7240-19:2007		Interesting as info
	purposes	
ISO 7240-2:2017	Fire detection and alarm systems — Part 2: Fire detection control	Interesting
	and indicating equipment	as info
ISO 7240-22:2017	Fire detection and alarm systems — Part 22: Smoke-detection	Interesting
	equipment for ducts	as info
ISO 7240-23:2013	Fire detection and alarm systems — Part 23: Visual alarm devices	Interesting
		as info
ISO 7165:2017	Fire fighting — Portable fire extinguishers — Performance and	Interesting
	construction	as info
ISO 11601:2017	Fire fighting — Wheeled fire extinguishers — Performance and	Interesting
	construction	as info
ISO/TC 92 Fire Safety Published		
rublisheu	Fire tests — Applicability of reaction to fire tests to fire modelling	Interesting
ISO/TR 17252:2019	and fire safety engineering	as info
	Fire containment — Elements of building construction — Part 1:	Interesting
ISO 6944-1:2008		-
	Ventilation ducts	as info
ISO 6944-1:2008/AMD	Fire containment — Elements of building construction — Part 1: Ventilation ducts — Amendment 1	Interesting as info
1:2015		
ISO 13571:2012	Life-threatening components of fire — Guidelines for the	Interesting as info
	estimation of time to compromised tenability in fires	as info
ISO/DIS 13571-1	Life-threatening components of fire — Part 1: Guidelines for the	Interesting
	estimation of time to compromised tenability in fires	as info
ISO/TR 13571-2:2016	Life-threatening components of fire — Part 2: Methodology and	Interesting
	examples of tenability assessment	as info
ISO/CD 20710-1	Fire safety engineering — Active fire protection systems — Part 1:	Interesting
•	General principles	as info
ISO/CD TS 16733-2	Fire safety engineering — Selection of design fire scenarios and	Clearly
	design fires — Part 2: Design fires	relevant





ISO/TS 29761:2015	Fire safety engineering — Selection of design occupant behavioural	Clearly
	scenarios	relevant
ISO/CD TR 20413	Fire safety engineering — Survey of performance-based safety	Clearly
	design practices in different countries	relevant
ISO/AWI 20414	Fire safety engineering — Verification and validation protocol for	Clearly
	building fire evacuation models	relevant
ISO/TR 16738:2009	Fire-safety engineering — Technical information on methods for	Clearly
	evaluating behaviour and movement of people	relevant

