STANDARDS ANALYSIS

CONSTRUCTION

LUXEMBOURG

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ANEC

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ILNAS
Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services

ANEC
Agence pour la Normalisation et l'Economie de la Connaissance

FOREWORD

Technical standardization provides important support for a company's economic development and the quality of its products and services. Indeed, the European Regulation No. 1025/2012 on European standardization states that the application of standards *"also helps to boost the competitiveness of enterprises by facilitating in particular the free movement of goods and services, network interoperability, means of communication, technological development and innovation".*

At national level, the *Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services* (ILNAS), a public administration under the supervision of the Minister of the Economy, SME, Energy and Tourism, is the national standards body. Within this framework, ILNAS, as a member of European (CEN, CENELEC, ETSI) and international (ISO, IEC, ITU-T) standards organizations, enables the national market to participate in the development of standards within these entities, and also provides access to standards.

In order to promote technical standardization and develop the ad hoc skills in Luxembourg, the Luxembourg standardization strategy 2020-2030 identifies the construction sector as one of the most relevant economic pillars that can benefit greatly from technical standardization, along with the information and communication technology and aerospace sectors.

Directly linked to this strategy, ILNAS has drawn up the Luxembourg's policy on technical standardization in the construction sector 2020-2025, which is implemented with the support of the Economic Interest Group "*Agence pour la Normalisation et l'Economie de la Connaissance*" (ANEC GIE – Standardization Department). This policy intends to promote and strengthen the use of technical standards by the national market, to reinforce the position of Luxembourg in the global construction standardization landscape - particularly through a stronger involvement of national stakeholders in the relevant technical standardization committees - and to pursue the development of research and education programs in standardization.

National standardization activities are also playing an increasingly significant role in the construction sector, with several national standards documents currently being created, and many more published in recent years.

In order to foster, but also to enhance all these developments, the present document contributes to facilitating the orientation of construction market activities, from the normative point of view, and helps to position them in the related European and international context. Updated annually, it provides industry stakeholders with an overview of standards developments in the field and, this year, also highlights activities relevant to sustainable construction in line with the goals of the United Nations 2030 Agenda.

Jean-Marie REIFF, Director
ILNAS

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ILNAS

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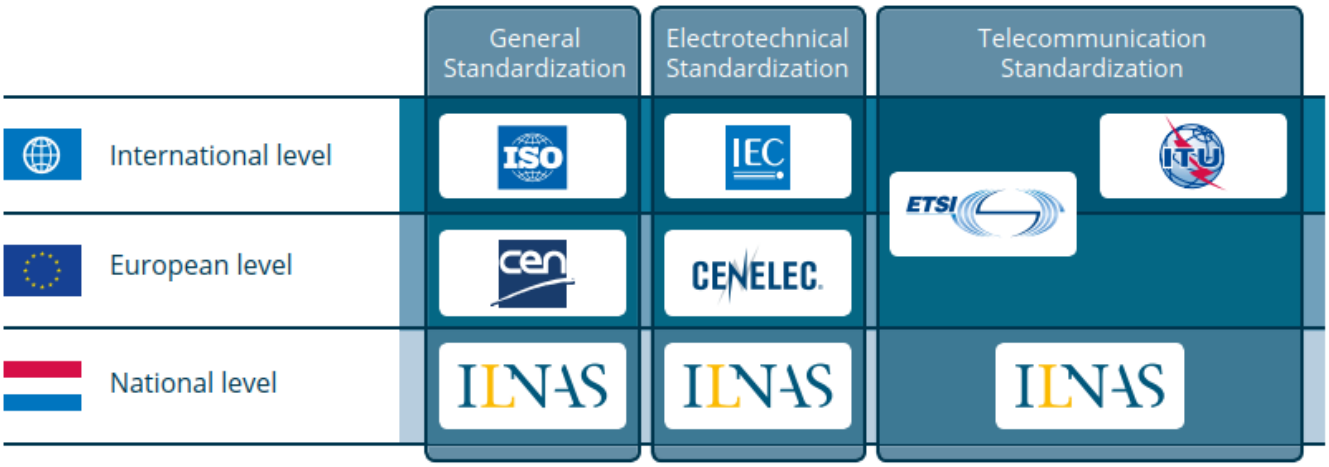
INTRODUCTION

The present version of the standards analysis for the construction sector provides information on the relevant technical committees at European (CEN and CENELEC)[1] and international (ISO and IEC)[2] level, as well as details on national involvement in the standardization process.

As a member of European and international organizations, ILNAS promotes technical standardization and encourages the national stakeholders to get involved in the standardization process at all levels.



Technical standardization offers the opportunity for construction professionals to participate in defining the rules of the art. The use of standards also provides a framework for technical innovation and best practices. Furthermore, taking into account the challenges of sustainable development, standards help guaranteeing quality and durability of buildings as well as effectively considering the social, environmental, and economic needs of current and future populations.

To offer a better visibility of standardization activities oriented towards eco-design, the “sustainability” logo below is affixed next to the relevant technical committees throughout the document.

[1] CEN : European Committee for Standardization
CENELEC : European Committee for Electrotechnical Standardization

[2] ISO : International Organization for Standardization
IEC : International Electrotechnical Commission

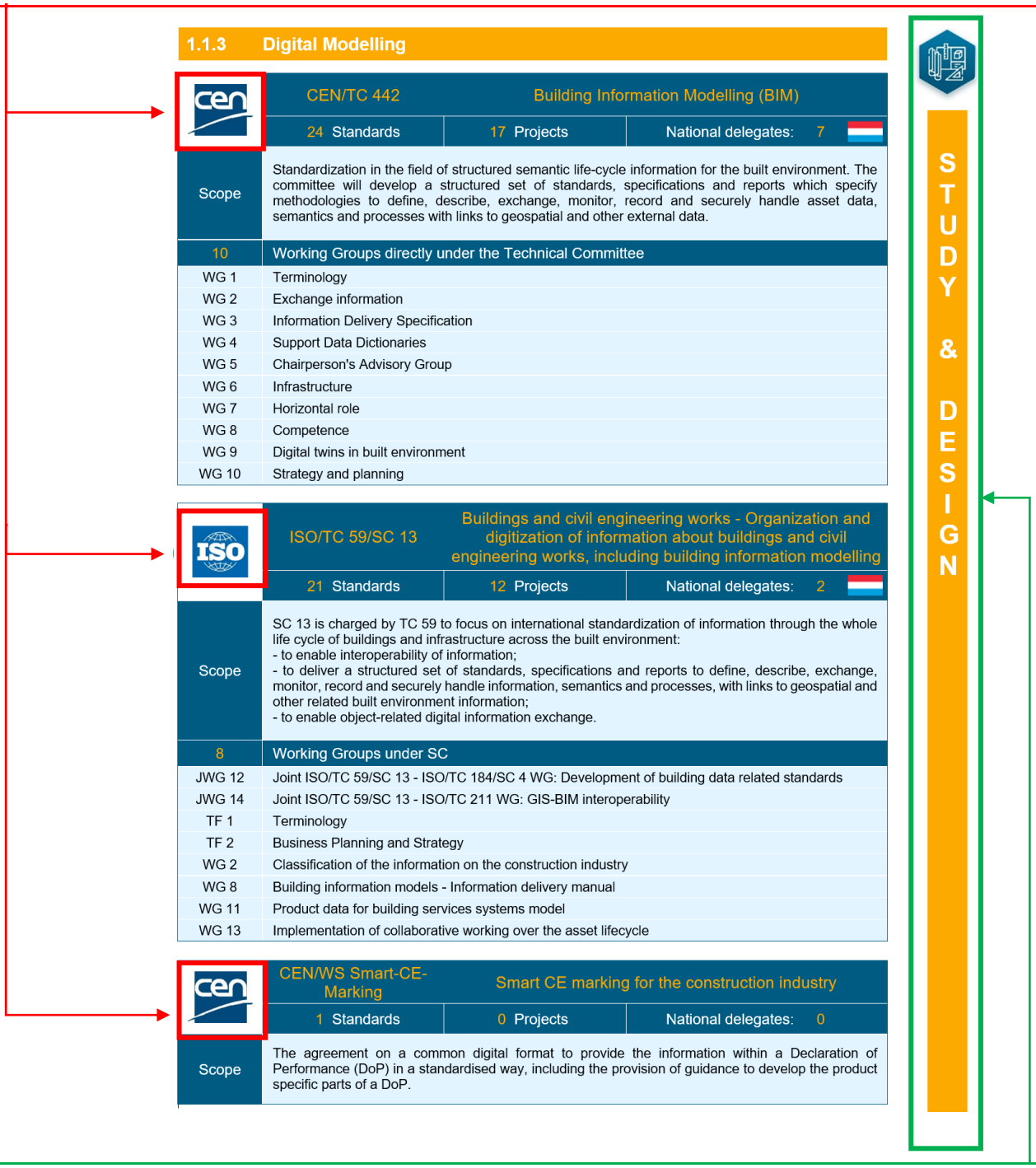
The present analysis is structured to facilitate access to information by adopting a classification into five main sections divided further according to specific topics. Each of these topics serves as an umbrella to group the relevant technical committees.

The second part of the document provides an overview of national participation in the standardization process in the construction sector, with statistics on the number of delegates and organizations registered in standardization bodies. Finally, the document presents a list of all technical committees, subcommittees and working groups related to the construction sector in which experts from Luxembourg are involved, along with a list of registered delegates.

1 TECHNICAL COMMITTEES IN THE CONSTRUCTION SECTOR

Tutorial : Navigation within the chapter

Click on the logo of the standardization organization to access the web page of the technical committee.



1.1.3 Digital Modelling

CEN/TC 442	Building Information Modelling (BIM)	
24 Standards	17 Projects	National delegates: 7

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.

10	Working Groups directly under the Technical Committee
WG 1	Terminology
WG 2	Exchange information
WG 3	Information Delivery Specification
WG 4	Support Data Dictionaries
WG 5	Chairperson's Advisory Group
WG 6	Infrastructure
WG 7	Horizontal role
WG 8	Competence
WG 9	Digital twins in built environment
WG 10	Strategy and planning

ISO/TC 59/SC 13	Buildings and civil engineering works - Organization and digitization of information about buildings and civil engineering works, including building information modelling	
21 Standards	12 Projects	National delegates: 2

Scope	SC 13 is charged by TC 59 to focus on international standardization of information through the whole life cycle of buildings and infrastructure across the built environment: - to enable interoperability of information; - to deliver a structured set of standards, specifications and reports to define, describe, exchange, monitor, record and securely handle information, semantics and processes, with links to geospatial and other related built environment information; - to enable object-related digital information exchange.

8	Working Groups under SC
JWG 12	Joint ISO/TC 59/SC 13 - ISO/TC 184/SC 4 WG: Development of building data related standards
JWG 14	Joint ISO/TC 59/SC 13 - ISO/TC 211 WG: GIS-BIM interoperability
TF 1	Terminology
TF 2	Business Planning and Strategy
WG 2	Classification of the information on the construction industry
WG 8	Building information models - Information delivery manual
WG 11	Product data for building services systems model
WG 13	Implementation of collaborative working over the asset lifecycle

CEN/WS Smart-CE-Marking	Smart CE marking for the construction industry	
1 Standards	0 Projects	National delegates: 0

Scope	The agreement on a common digital format to provide the information within a Declaration of Performance (DoP) in a standardised way, including the provision of guidance to develop the product specific parts of a DoP.

Click on the picture representing the ANS section (e.g.: “Study & Design”) or on the corresponding banner to go back to the table of contents of the section.

1.1
STUDY & DESIGN

ARCHITECTURE

ENGINEERING

TECHNICAL CONSULTANCY

SURVEYORS

TECHNICAL TESTING AND ANALYSIS

• • •

1.1 Study & Design

1.1.1 Buildings & Civil Engineering Works

ISO/TC 59	Buildings and civil engineering works		
135 Standards	25 Projects	National delegates: 2	

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. Excluded: - standardization and coordination of technical product documentation (ISO/TC 10); - acoustic requirements (ISO/TC 43); - bases for design of concrete structures (ISO/TC 71/SC 4); - fire tests and fire safety engineering related to building materials, components and structures (ISO/TC 92); - bases for design of structures (ISO/TC 98); - construction machinery (ISO/TC 127 and ISO/TC 195); - performance requirements for glass in buildings (ISO/TC 160); - performance requirements for doors, doorsets and windows (ISO/TC 162); - calculation of thermal properties (ISO/TC 163); - bases for design of timber structures (ISO/TC 165); - bases for design of steel and aluminium structures (ISO/TC 167); - geotechnical aspects and soil quality (ISO/TC 182 and ISO/TC 190); - standardization in the design and retrofit buildings regarding acceptable indoor environment and practicable energy use (ISO/TC 205).
2	Working Groups directly under Technical Committee
AG 1	Advisory Group
WG 4	Resilience of buildings and civil engineering works
10	Sub-Committees
SC 2	Terminology and harmonization of languages
SC 8	Sealants
SC 13	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)
SC 14	Design life
SC 15	Framework for the description of housing performance
SC 16	Accessibility and usability of the built environment
SC 17	Sustainability in buildings and civil engineering works
SC 18	Construction procurement
SC 19	Prefabricated building
SC 20	Resilience of buildings and civil engineering works

SC 8 is developed in the section 1.4.5 – Sealant
SC 13 is developed in the section 1.1.3 – Digital Modelling
SC 15 is developed in the section 1.1.11 – Conformity
SC 16 is developed in the section 1.1.12 – Accessibility
SC 17 is developed in the section 1.1.8 – Sustainability & Environment

1.1.2 Structural Design

ISO/TC 98	Bases for design of structures	
22 Standards	2 Projects	National delegates: 0
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.	
3	Sub-Committees	
SC 1	Terminology and symbols	
SC 2	Reliability of structures	
SC 3	Loads, forces and other actions	

CEN/TC 250	Structural Eurocodes	
120 Standards	61 Projects	National delegates: 28
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.	
4	Working Groups directly under the Technical Committee	
WG 1	Policy, procedures and links with other standards	
WG 4	Fiber reinforced polymer structures	
WG 5	Membrane Structures	
WG 6	Robustness	
11	Sub-Committees	
SC 1	Eurocode 1: Actions on structures	
SC 2	Eurocode 2: Design of concrete structures	
SC 3	Eurocode 3: Design of steel structures	
SC 4	Eurocode 4: Design of composite steel and concrete structures	
SC 5	Eurocode 5: Design of timber structures	
SC 6	Eurocode 6: Design of masonry structures	
SC 7	Eurocode 7: Geotechnical design	
SC 8	Eurocode 8: Earthquake resistance design of structures	
SC 9	Eurocode 9: Design of aluminum structures	
SC 10	EN 1990 Basis of structural design	
SC 11	Structural Glass	

ILNAS/TC 100	Eurocodes (Stand-by)	
58 Standards	0 Projects	National delegates: 0
Scope	National Annexes for structural Eurocodes	

1.1.3 Digital Modelling

CEN/TC 442	Building Information Modelling (BIM)		
24 Standards	17 Projects	National delegates: 7	
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.		
10	Working Groups directly under the Technical Committee		
WG 1	Terminology		
WG 2	Exchange information		
WG 3	Information Delivery Specification		
WG 4	Support Data Dictionaries		
WG 5	Chairperson's Advisory Group		
WG 6	Infrastructure		
WG 7	Horizontal role		
WG 8	Competence		
WG 9	Digital twins in built environment		
WG 10	Strategy and planning		

ISO/TC 59/SC 13	Buildings and civil engineering works - Organization and digitization of information about buildings and civil engineering works, including building information modelling		
21 Standards	12 Projects	National delegates: 2	
Scope	SC 13 is charged by TC 59 to focus on international standardization of information through the whole life cycle of buildings and infrastructure across the built environment: - to enable interoperability of information; - to deliver a structured set of standards, specifications and reports to define, describe, exchange, monitor, record and securely handle information, semantics and processes, with links to geospatial and other related built environment information; - to enable object-related digital information exchange.		
8	Working Groups under SC		
JWG 12	Joint ISO/TC 59/SC 13 - ISO/TC 184/SC 4 WG: Development of building data related standards		
JWG 14	Joint ISO/TC 59/SC 13 - ISO/TC 211 WG: GIS-BIM interoperability		
TF 1	Terminology		
TF 2	Business Planning and Strategy		
WG 2	Classification of the information on the construction industry		
WG 8	Building information models - Information delivery manual		
WG 11	Product data for building services systems model		
WG 13	Implementation of collaborative working over the asset lifecycle		

CEN/WS Smart-CE-Marking	Smart CE marking for the construction industry	
1 Standards	0 Projects	National delegates: 0
Scope	The agreement on a common digital format to provide the information within a Declaration of Performance (DoP) in a standardised way, including the provision of guidance to develop the product specific parts of a DoP.	

1.1.4 Geographic Information

ISO/TC 211	Geographic information/Geomatics		
97 Standards	21 Projects	National delegates: 1	

Scope	
	Standardization in the field of digital geographic information. This work aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. Within the scope of geographic information, these standards may specify methods, tools, and services for data management. Data management is understood to include acquiring, processing, analyzing, accessing, presenting, and publishing data for users and systems The work shall link to appropriate standards for information technology and data where possible, and provide a framework for the development of sector-specific applications using geographic data

21	Working Groups directly under the Technical Committee
AG 1	Outreach advisory group
AG 2	Advisory group on strategy
AG 3	Programme maintenance group (PMG)
AG 4	Joint advisory group (JAG) ISO/TC 211 – OGC
AG 5	Harmonized model maintenance group (HMMG)
AG 6	Group for Ontology Maintenance (GOM)
AG 7	Terminology maintenance group (TMG)
AG 10	XML maintenance group (XMG)
AG 11	Advisory group to support UN-GGIM and other related UN activities
AG 12	Control body for the ISO geodetic register
AG 13	Land cover and land use
AG 14	Register Maintenance Group (RMG)
AHG 11	Climate change
CAG 1	Chair's advisory group
CAG 1	Joint ISO/TC 211 - ISO/TC 204 WG: GIS-ITS
JWG 11	Framework and reference model
WG 1	Geospatial services
WG 4	Imagery
WG 6	Information communities
WG 7	Information management
WG 9	Ubiquitous public access

CEN/TC 287	Geographic Information	
59 Standards	12 Projects	National delegates: 1

Scope	
	Standardization in the field of digital geographic information for Europe: The committee will produce a structured framework of standards and guidelines, which specify a methodology to define, describe and transfer geographic data and services. This work will be carried out in close co-operation with ISO/TC 211 in order to avoid duplication of work. The standards will support the consistent use of geographic information throughout Europe in a manner that is compatible with international usage. They will support a spatial data infrastructure at all levels in Europe.

1.1.5 Technical Drawings

IEC	IEC/TC 3	Documentation, graphical symbols and representations of technical information	
	66 Standards	16 Projects	National delegates: 0
Scope	Standardization in the field of documentation, graphical symbols and representations of technical information, covering 1) Rules, principles and methods focusing on machine sensible representation of information. This includes but is not limited to: - Definition and identification of classes and properties (e.g. sematic data), - ontologies and data dictionaries (e.g. CDD), - Information models for structuring of technical data and document management, - information exchange based on existing communication means. It includes definition, co-ordination and management of the information required during the whole life cycle of a device, system, or plant, also covering aspects of documentation. 2) Rules, principles and methods focusing on human sensible representation of the information. This includes but is not limited to: - presentation of information in documentation, - graphical symbols for use in documentation, - graphical symbols for the human interaction with equipment. The standards deal with the presentations and graphical symbols as shown in documents or on equipment, independently of their forms of representation, analogue or digital, but may also include requirements for the development of documentation. 3) Rules, principles and methods for general and safety related marking, identification and arrangement of information in electrical installations, equipment and man-machine interfaces. This includes but is not limited to: - the meanings of colours and alternative means, when used for marking and identification, - the arrangement of indicating devices and actuators, - coding principles for indicating and actuating devices, - terminal designation of electrical and electronic components, apparatus and equipment, - designation of certain designated conductors, - marking of electrical and electronic equipment with ratings related to supply and to its properties, - marking of bare and insulated conductors. Horizontal functions: - To develop basic safety publications related to marking, identification and arrangement of information in electrical installations, equipment and man machine interfaces. - To develop horizontal publications in the area of documentation, graphical symbols and representation of technical information.		
21	Working Groups directly under the Technical Committee		
WG 27	Terminology		
WG 28	Intelligent Information Request and Delivery specification (iiRDS) – A Process Model for Information Architecture		
MT 21	Maintenance team of IEC 62027 and IEC 61082		
MT 22	Maintenance team of IEC 60073, IEC 60445 and IEC 60447		
MT 23	Maintenance team of IEC 60152, IEC 60757 and IEC 61293		
MT 29	Graphical symbols for diagrams		
MT 60848	Maintenance of IEC 60848		
MT 61175	Maintenance of IEC 61175		
MT 61666	Maintenance of IEC 61666		
MT 62023	Maintenance of IEC 62023		
MT 62491	Maintenance of IEC 62491		
MT 62507	Maintenance of IEC 62507		
MT 81714	Maintenance of the IEC 81714 series		
JWG 16	Maintenance of IEC 82079 series linked to ISO/TC 10		
JWG 17	Documentation of communication in power utility automation linked to TC 57		
JWG 18	Revision of IEC 81355-1 (former IEC 61355-1), to replace the existing MT 61355 linked to ISO/TC 10/SC 10		
JWG 24	Maintenance of the IEC 81346 series linked to ISO/TC 10/SC 10		
JWG 25	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designation - Part 10: Power plants linked to ISO/TC 10/SC 10		
JWG 26	IEC 82045 series linked to ISO/TC 10/SC 10		
AG CAG	Chair Advisory Group		
VT 60617	SDB team for IEC 60617 - Graphical symbols for diagrams		
2	Sub-Committees		
SC 3C	Graphical symbols for use on equipment		
SC 3D	Classes, Properties and Identification of products - Common Data Dictionary (CDD)		

CENELEC	CLC/SR 3	Information structures, documentation and graphical symbols	
	29 Standards	6 Projects	National delegates: 0

CENELEC	CLC/SR 3C	Graphical symbols for use on equipment	
	4 Standards	0 Projects	National delegates: 0

CENELEC	CLC/SR 3D	Product properties and classes and their identification	
	7 Standards	3 Projects	National delegates: 0

ISO	ISO/TC 10	Technical product documentation	
	145 Standards	22 Projects	National delegates: 0
Scope	Standardization and coordination of technical product documentation (TPD), including technical drawings, model based (3D), computer based (2D) or manually produced for technical purposes throughout the product life cycle, to facilitate preparation, management, storage, retrieval, reproduction, exchange and use.		
9	Working Groups directly under the Technical Committee		
CAG	Chairman's Advisory Group		
JSG 1	Joint Advisory Group between ISO/TC 10 and ISOTC 213 for harmonization issues		
JWG 21	Joint ISO/TC 10 - IEC/TC 3 WG: Work on the ISO 81355 series standards		
TF 1	Task Force for the development of the ISO/TC 10 roadmap		
WG 16	3D models: Presentation of product definition data		
WG 17	Vocabulary of terms and definitions		
WG 18	Drawing and writing instruments		
WG 19	Harmonization ISO 129 and ISO 128 series		
WG 20	Design and documentation for manufacture, assembly, disassembly and end-of-life processing		
4	Sub-Committees		
SC 1	Basic conventions		
SC 6	Mechanical engineering documentation		
SC 8	Construction documentation		
SC 10	Process plant documentation		

cen	CEN/SS F01	Technical Drawings	
	64 Standards	6 Projects	National delegates: 0

cen	CEN/SS F16	Graphical symbols	
	13 Standards	0 Projects	National delegates: 0

1.1.6 Geotechnics

ISO/TC 182	Geotechnics	
58 Standards	6 Projects	National delegates: 2
Scope	Standardization of geotechnical aspects in the field of building and civil engineering, including (related) properties of soil and rock.	
9	Working Groups directly under the Technical Committee	
WG 2	Monitoring in Geotechnical Engineering	
WG 4	Drilling and sampling methods and groundwater measurements	
WG 7	Cone and piezocone penetration tests	
WG 8	Borehole expansion tests	
WG 9	Geotechnical aspects of geophysical methods	
WG 10	Laboratory testing of rocks	
WG 11	Static testing of geotechnical structures	
WG 12	Standardization in geophysics	
WG 13	Laboratory testing of soils	

CEN/TC 288	Execution of special geotechnical works	
15 Standards	8 Projects	National delegates: 3
Scope	Standardization of the execution procedures for special geotechnical works (including the testing and control methods of the procedures) and of the required material properties.	
8	Working Groups directly under the Technical Committee	
WG 19	Sheet-pile walls	
WG 20	Ground freezing	
WG 22	Deep mixing	
WG 23	Ground treatment	
WG 24	Soil nailing	
WG 25	Diaphragm walls -Bored piles	
WG 26	Displacement piles	
WG 27	Micropiles	

CEN/TC 341	Geotechnical Investigation and Testing	
57 Standards	6 Projects	National delegates: 2
Scope	Standardization in the field of geotechnical investigation and testing pertaining to equipment and methods used for drilling, sampling and field and laboratory testing.	

CEN/TC 340	Anti-seismic devices	
1 Standards	6 Projects	National delegates: 0
Scope	Standardization of the design, manufacture, testing, installation and maintenance of antiseismic devices for use in structures erected in seismic areas and designed in accordance with Eurocode 8.	
1	Working Groups directly under the Technical Committee	
WG 5	Revision of EN 15129	

1.1.7 Acoustics

ISO/TC 43	Acoustics		
218 Standards	31 Projects	National delegates: 3	
Scope	Standardization in the field of acoustics, including methods of measuring acoustical phenomena, their generation, transmission and reception, and all aspects of their effects on man and his environment. Excluded: electro-acoustics and the implementation of specifications of the characteristics of measuring instruments for acoustic purposes.		
5	Working Groups directly under the Technical Committee		
AG 1	Advisory panel		
AG 2	Convenors coordination group		
WG 1	Threshold of hearing		
WG 9	Method for calculating loudness level		
WG 10	Hearing aid fitting management		
3	Sub-Committees		
SC 1	Noise		
SC 2	Building acoustics		
SC 3	Underwater acoustics		

CEN/TC 211	Acoustics	
91 Standards	8 Projects	National delegates: 0
Scope	Standardization in the field of acoustics, including methods of measuring acoustical phenomena, the generation, transmission and reception of sound, all aspects of the effects of sound on man and his environment, and methods of noise reduction. Excluded: acoustical performance requirements and measurement methods for building components and buildings; acoustical performance requirements for hearing protectors.	

CEN/TC 126	Acoustic properties of building elements and of buildings	
54 Standards	3 Projects	National delegates: 2
Scope	Standardization in the field of acoustic properties of building elements and of buildings, including: laboratory methods, expression of results and accuracy; rating of acoustic properties of elements; field measurement methods, expression of results and accuracy; rating of acoustic properties of buildings; methods for determining the acoustic of buildings from the performance of its elements.	
5	Working Groups directly under the Technical Committee	
WG 1	Methods for measuring the sound insulation of building elements and the acoustic performances of buildings	
WG 2	Prediction of the acoustic performance of buildings from the performance of elements	
WG 5	Coordination working group	
WG 7	Laboratory measurement of airborne and structure borne sound from building equipment	
WG 12	BIM Acoustics	

ILNAS/TC 103	Acoustics	
1 Standards	0 Projects	National delegates: 16
Scope (Extract)	Acoustics in residential buildings. Setting of performance criteria for the different types of existing noise. Initiation of a process for supervising acoustics in residential buildings (…).	

1.1.8 Sustainability & Environment

ISO/TC 59/SC 17	Sustainability in buildings and civil engineering works	
13 Standards	2 Projects	National delegates: 0
Scope	Standardization in the field of sustainability of new and existing construction works in the context of the UN Sustainable Development Goals and climate change mitigation and adaptation. The environmental, economic, and social aspects of sustainability and circular economy are included as appropriate.	
6	Working Groups directly under the Technical Committee	
WG 1	General principles and terminology	
WG 3	Environmental declaration of products	
WG 4	Environmental performance of buildings	
WG 5	Civil engineering works	
AHG2	Circular economy in the construction sector	
AHG3	Climate change mitigation in buildings and engineering works	

ISO/TC 205	Building environment design	
40 Standards	11 Projects	National delegates: 0
Scope (Extract)	Standardization in the design of new buildings and retrofit of existing buildings for acceptable indoor environment and practicable energy conservation and efficiency. Building environment design addresses the technical building systems and related architectural aspects, and includes the related design processes, design methods, design outcomes, and design-phase building commissioning. Indoor environment includes air quality, and thermal, acoustic, and visual factors. Covering and including: - aspects of sustainability related to indoor environmental quality and energy that can be addressed in the design of buildings and the design of retrofits of existing buildings; - general principles of building environment design; - design of energy-efficient buildings; - building automation and control systems in building and retrofit design; - indoor air quality in building and retrofit design; - indoor thermal environment in building and retrofit design; - indoor acoustical environment in building and retrofit design; - indoor visual environment in building and retrofit design; - design of heating and cooling systems including radiant; and - application of methods of testing and rating the performance of building environmental equipment in the design of new buildings and retrofits. (…)	
11	Working Groups directly under the Technical Committee	
AG 1	Joint advisory group TC 163 - TC 205 – Coordination of ISO 52000 family	
CAG	Chair's advisory group	
JWG 11	Joint ISO/TC 205 - ISO/TC 163 WG: Moisture damage	
JWG 12	Joint ISO/TC 205 - ISO/TC 274 WG: Visual indoor environment	
WG 1	General principles	
WG 2	Design of energy-efficient buildings	
WG 3	Building Automation and Control System (BACS) Design	
WG 7	Indoor visual environment	
WG 8	Radiant heating and cooling systems	
WG 9	Heating and cooling systems	
WG 10	Commissioning	

ISO/TC 323	Circular economy		
0 Standards	6 Projects	National delegates: 11	
Scope	Standardization in the field of Circular Economy to develop frameworks, guidance, supporting tools and requirements for the implementation of activities of all involved organizations, to maximize the contribution to Sustainable Development. Excluded: Aspects of Circular Economy already covered by existing committees. Note: In parallel, the ISO TC 323 works in cooperation with existing committees on subjects that may support Circular Economy.		
8	Working Groups directly under the Technical Committee		
AG	Communication		
CAG	Chairman's Advisory Group		
WG 1	Terminology, principles, frameworks and management system standard		
WG 2	Practical approaches to develop and implement Circular Economy		
WG 3	Measuring and assessing circularity		
WG 4	Circular Economy in practice: experience feedback		
WG 5	Product circularity data sheet		
STTF	Spanish Translation Task Force		

CEN/TC 473	Circular economy	
0 Standards	0 Projects	National delegates: 1
Scope	Standardization in the field of Circular Economy to develop horizontal standards relating to European specific prerequisites, legislation, and policy. The standards aim to provide recommendations, requirements, methodologies and tools to support and measure transition towards a circular economy. The deliverables aim to unify international and European standardization while contributing to a sustainable green economy. Excluded: - Aspects of Circular Economy already covered by existing committees or future standardization falling within specific sectors, product groups, material, or data standardization. - Aspects concerning standardization on Ecodesign and Digital Product Passport.	

CEN/TC 350	Sustainability of construction works	
14 Standards	5 Projects	National delegates: 9
Scope	The committee is responsible for the development of horizontal standardized methods for the assessment of the sustainability aspects of new and existing construction works (buildings and civil engineering works) in the context of the UN Sustainable Development Goals and of the circular economy. The methodological basis will be developed in the context of current needs, European strategies, such as mitigation, adaptation and resilience to climate change, and life cycle thinking. The standards describe coherent methodologies for the assessment of sustainability of construction works covering the assessment of environmental, social and economic performance (aspect and impacts) of buildings and civil engineering works, and the provision of construction product environmental information (EPD). This covers: - Environmental performance assessment; circularity principles (the circular economy in the construction sector), energy efficiency and decarbonization, sustainable use of resources (resource efficiency, waste minimization), protection of the environment and biodiversity; - Social performance assessment; health and comfort, safety and security, adaptability and accessibility in response to user needs, resilience against external events such impact of climate change, sourcing of materials; - Economic performance assessment; life cycle cost, whole life costs and impact on economic value, 'green finance' initiatives (taxonomy); - The implementation of the standards in response to trends in digitalization (e,g. BIM, CAD). Note: The committee is also entrusted with an advisory function to CEN committees to ensure the effective implementation of horizontal core rules regarding the development a specific Product Category Rules based on EN 15804.	

6	Working Groups directly under the Technical Committee
WG 1	Environmental performance of buildings
WG 3	Products Level
WG 5	Social performance assessment of building
WG 6	Civil Engineering works
WG 7	Framework and Coordination
WG 8	Sustainable refurbishment
1	Sub-Committees
SC 1	Circular Economy in the Construction Sector

ISO/TC 268	Sustainable cities and communities	
46 Standards	19 Projects	National delegates: 1

Scope

Standardization in the field of Sustainable Cities and Communities will include the development of requirements, frameworks, guidance and supporting techniques and tools related to the achievement of sustainable development considering smartness and resilience, to help all Cities and Communities and their interested parties in both rural and urban areas become more sustainable.
Note: TC 268 will contribute to the UN Sustainable Development Goals through its standardization work.
The proposed series of International Standards will encourage the development and implementation of holistic and integrated approaches to sustainable development and sustainability.

9	Working Groups directly under the Technical Committee
AHG 1	PWI Harbour Cities
CAG 1	Chairman Advisory Group
TG 1	Awareness-raising, communication and promotion
TG 2	Collection of cities good practices and needs
TG 3	Supporting the strategic positioning of ISO/TC 268
WG 1	Management System Standards
WG 2	City indicators
WG 3	City anatomy and sustainability terms
WG 4	Smart processes and operating models for sustainable communities
2	Sub-Committees
SC 1	Smart community infrastructures
SC 2	Sustainable cities and communities - Sustainable mobility and transportation

CEN/TC 465	Sustainable and Smart Cities and Communities	
1 Standards	3 Projects	National delegates: 0

Scope

Standardization in the field of Sustainable Cities and Communities, covering the development of requirements, frameworks, guidance and supporting tools and techniques. The proposed standardization plan will be developed to assist cities and community decision making, and support their implementation of sustainability and sustainable development. Standardization will focus on the development of a holistic and integrated approach in response to the needs of European Cities and Communities in both rural and urban areas.
It is proposed that the standardization activities focus on:
- the purposes of urban sustainable development as defined by ISO 37101 related to Sustainable Cities and Communities, namely resilience, attractiveness, well-being, social cohesion, preservation and improvement of environment, responsible resource use, aligned with the main pillars of sustainable development (economic, environmental and social),
- all innovative approaches to solution and service delivery, designed for use by all Cities and Communities, Citizens and their interested parties as a means of achieving the sustainability of urban and rural development, with the aim of continuously improving solutions and services. and rural development, with the aim of continuously improving solutions and services.

IEC/SyC Smart Cities	Electrotechnical aspects of Smart Cities	
10 Standards	16 Projects	National delegates: 0
Scope	To foster the development of standards in the field of electrotechnology to help with the integration, interoperability and effectiveness of city systems. Note 1: This will be done: - by promoting the collaboration and systems thinking between IEC/TCs, the SyC and other SDOs in relation to City systems standards, - by undertaking systems analysis to understand the needs for standards and assess new work item proposals (NWIPs) related to city systems, - by developing systems standards where needed and by providing recommendations to existing SyCs, TCs/SCs and other SDOs. Note 2: Overall common city goals include, for example, sustainable development, efficiency, resilience, safety and support for citizens' engagement and participation. However, an individual city will follow its own approach. Note 3: “Cities” refers to any geographically located population.	
16	Working Groups directly under the Technical Committee	
WG 1	Terminology	
WG 2	Market Relationship	
WG 3	Reference Architecture	
MT 15	Maintenance of IEC 63152 - City Service Continuity against disasters, the role of the electrical supply	
JWG 14	Smart Cities Reference Architecture linked to ISO/TC 268	
JWG 16	City Information Modelling and Urban Digital Twins linked to ISO/IEC JTC 1	
AG 10	Cooperation	
AG 11	Communications, Outreach, Promotion & Advocacy based Strategy Advisory Group (COPAG)	
AG 12	City Observatory & Research Advisory Group (CORAG)	
ahG 6	Developing good working practice in the Governance Framework	
ahG 8	Strategy	
ahG 9	Sustainable Digital Transformation of the Urban Landscape	
ahG 13	Decarbonization aspects of smart cities	
ahG 17	Project incubation	
CAG 1	Chair's Advisory Group	
OF 1	Open Forum 1 - Smart Cities Events	

ISO/TC 207	Environmental management	
68 Standards	22 Projects	National delegates: 6
Scope	Standardization in the field of environmental management to address environmental and climate impacts, including related social and economic aspects, in support of sustainable development. Excluded: test methods of pollutants, setting limit values and levels of environmental performance, and standardization of products. Note 1: TC 207 is focused on environmental management systems, auditing, verification/validation and related investigations, environmental labelling, environmental performance evaluation, life cycle assessment, climate change and its mitigation and adaptation, ecodesign, material efficiency, environmental economics and environmental and climate finance. Note 2: Where appropriate, the ISO/TC 207 works in cooperation with existing committees on subjects that may support environmental management.	
7	Working Groups directly under the Technical Committee	
DCCG	Developing Countries Coordination Group	
SLG	Strategic Leadership Group	
STTF	Spanish translation task force	
TCG	Terminology Coordination Group	
TF 1	Communications	
TG 1	Sustainable Finance Coordination	

TG 2	Circular economy coordination
6	Sub-Committees
SC 1	Environmental management systems
SC 2	Environmental auditing and related environmental investigations
SC 3	Environmental labelling
SC 4	Environmental performance evaluation
SC 5	Life cycle assessment
SC 7	Greenhouse gas management and related activities

CEN/SS S26	Environmental management	
37 Standards	7 Projects	National delegates: 0

CEN/TC 351	Construction Products - Assessment of release of dangerous substances	
32 Standards	4 Projects	National delegates: 0
Scope	The development of horizontal standardized assessment methods for harmonized approaches relating to the release (and/or the content when this is practicable or legally required solution) of regulated dangerous substances under the Construction Products Directive (CPD) taking into account the intended conditions of use of the product. It addresses emission to indoor air, and release to soil, surface water and ground water.	
5	Working Groups directly under the Technical Committee	
WG 1	Release from construction products into soil, ground water and surface water	
WG 2	Emissions from construction products into indoor air	
WG 3	Radiation from construction products	
WG 4	Terminology	
WG 5	Content and eluate analysis in construction products	

1.1.9 Energy Performance

ISO/TC 163	Thermal performance and energy use in the built environment	
153 Standards	14 Projects	National delegates: 0
Scope (Extract)	Standardization in the field of building and civil engineering works: - of thermal and hygrothermal performance of materials, products, components, elements and systems, including complete buildings, both new and existing, and their interaction with technical building systems; - of thermal insulation materials, products and systems for building and industrial application, including insulation of installed equipment in buildings; (…) Standardization of the holistic assessment of the energy performance of new and existing buildings as well as building retrofits, in close collaboration with ISO/TC 205 by means of the ISO/TC163/WG4 Joint working group TC 163 & TC 205 Energy performance using holistic approach (…)	
1	Working Groups directly under the Technical Committee	
WG 4	Joint ISO/TC 163 - ISO/TC 205 WG: Energy performance of buildings using holistic approach	
3	Sub-Committees	
SC 1	Test and measurement methods	
SC 2	Calculation methods	
SC 3	Thermal insulation products, components and systems	

CEN/TC 88	Thermal insulating materials and products		
	103 Standards	15 Projects	National delegates: 0
Scope	Standardization in the field of thermal insulating materials and products for application in buildings, including insulation for installed equipment and for industrial insulation, covering: terminology and definitions, list of required properties with regard to different applications, methods for the determination of these properties, sampling procedures, conformity criteria, specifications for insulating materials and products, marking and labelling of insulating materials and products.		
22	Working Groups directly under the Technical Committee		
WG 1	Common general test methods		
WG 2	Coordinating group		
WG 3	Mineral wool		
WG 4	Expanded polystyrene foam (EPS)		
WG 5	Rigid cellular polystyrene, extruded		
WG 6	Rigid cellular polyurethane and polyisocyanurate		
WG 7	Rigid cellular phenolic foam		
WG 8	Cellular glass (CG)		
WG 9	Mineral bonded wood wool (including multi-layered products)		
WG 10	Building equipment and industrial installations		
WG 11	Vacuum insulation products (VIP)		
WG 12	Prefabricated products of bonded expanded perlite		
WG 13	Expanded cork boards (ICB)		
WG 15	In situ formed insulation products		
WG 16	Factory production control		
WG 17	Wood fibre boards (WF)		
WG 18	External thermal insulation composite systems		
WG 19	Polyethylene foam		
WG 20	Expanded clay lightweight aggregates		
WG 21	Reflective insulation products		
WG 22	Factory made calcium silicate (CS) products		
WG 23	Vegetal fibers based products (VFBP)		

CEN/TC 89	Thermal performance of buildings and building components		
	18 Standards	19 Projects	National delegates: 0
Scope	Standardization in the field of energy performance of buildings, including particularly energy transfer through building components and thermal insulation of installed equipment in buildings, covering: - rules for expressing relevant thermal properties and requirements; - calculation and test methods; - input data, including climatic data; - effects of moisture.		
5	Working Groups directly under the Technical Committee		
WG 7	Thermal properties of doors and windows		
WG 8	Thermal test methods		
WG 13	In-situ thermal performance of construction products, building elements and structures		
WG 14	Determination of thermal resistance at elevated temperatures using the guarded hot plate method		
WG15	Durability of adhesives for airtight layers		

CEN/TC 371	Energy performance of buildings	
5 Standards	3 Projects	National delegates: 0

Scope (Extract)	CEN/TC 371 'Energy performance of buildings' is concerned with standardization related to the energy performance of buildings (EPB). The TC ensures the development, alignment and maintenance of a coherent set of standards for the determination of the EPB. It does so by (I) developing standards at overarching EPB level and by (II) coordinating the activities of related and specialized TCs that are responsible for the development of EPB standards within their scope, thereby ensuring harmonisation. CEN/TC 371 produced and maintains documents providing guidance and requirements to be met by EPB standards. 1. Developing standards at overarching EPB level (…) 2. Coordinating the activities of related and specialized TCs (…)
5	Working Groups directly under the Technical Committee
WG 1	EPBD Standards group
WG 2	EPB CAG
WG 3	Development of EN 16798-1-1
WG 4	Development of EN 16798-1-2
WG 5	Operational rating of energy performance of buildings

ISO/TC 301	Energy management and energy savings	
23 Standards	6 Projects	National delegates: 0

Scope	Standardization in the field of energy management and energy savings
13	Working Groups directly under the Technical Committee
AHG 10	Energy management system prioritizing GHG emission reduction
AHG 11	Relationship between energy performance and energy-related GHG emissions
AHG 12	Development of ISO 14019
AHG 13	Integrated District Energy System (IDES)
CAG	Chair's Advisory Group
STTF 1	Spanish translation task force
TG 2	Communication Task Group
TG 3	Terminology Task group
TG 5	Maintenance of requirements documents
WG 1	Energy management
WG 16	Zero Net Energy
WG 17	Energy Audits
WG 18	Energy data collection plan

IEC/SyC Smart Energy	Smart Energy	
13 Standards	5 Projects	National delegates: 0

Scope	Standardization in the field of Smart Energy in order to provide systems level standardization, coordination and guidance in the areas of Smart Grid and Smart Energy, including interaction in the areas of Heat and Gas. To widely consult within the IEC community and the broader stakeholder community to provide overall systems level value, support and guidance to the TCs and other standard development groups, both inside and outside the IEC. To liaise and cooperate with the SEG Smart Cities and future SEGs, as well as the future Systems Resource Group.
9	Working Groups directly under the Technical Committee
WG 2	IEC Smart Energy Development Plan

WG 5	Methodology and Tools
WG 6	Generic Smart Grid Requirements
WG 8	Distributed energy trading infrastructure
JWG 3	IEC Smart Energy Roadmap linked to ISO/IEC JTC 1/SC 41
AG 1	Technical Committees Forum
AG 4	Advisory group on Forums of SDOs & Regional Coordination Organizations
CAG 7	CAG Chairman's Advisory Group
ahG 9	Smart Hydropower

CEN/CLC/JTC 14	Energy management and energy efficiency in the framework of energy transition		
14 Standards	3 Projects	National delegates: 1	
Scope	Standardization in the field of energy management within the energy transition framework in close coordination with CEN/CENELEC sectorial strategy including, but not limited to, subjects such as: - Energy management systems - Energy audits - Energy efficiency and energy performance improvement - Energy and savings calculation methodologies - Energy efficiency improvement financing (For example: Valuation of Energy Related Investments, Energy Performance Contracting minimum requirements, etc.) - Energy services providers - Energy measurement and monitoring - Role of enabling technologies and RES within the energy management and energy efficiency framework Taking into account the horizontal role of JTC 14 and in order to avoid overlap with scopes of other TCs, the following fields are excluded from the scope: - Specific technologies or systems activities within the scope of other CEN, CENELEC or Joint CEN-CENELEC TCs, - Environmental issues.		
2	Working Groups directly under the Technical Committee		
WG 4	Energy financial aspects		
WG 5	Guarantees of Origin related to energy		

1.1.10 Maintenance & Facility Management

CEN/TC 319	Maintenance	
13 Standards	3 Projects	National delegates: 0
Scope	Standardization in the field of maintenance as far as generic standards which are generally applicable are concerned	
11	Working Groups directly under the Technical Committee	
WG 4	Terminology	
WG 6	Maintenance performance and indicators	
WG 7	Maintenance of buildings	
WG 8	Maintenance functions and maintenance management	
WG 9	Qualification of personnel	
WG 10	Maintenance within physical asset management	
WG 11	Condition assessment methodologies	
WG 12	Risk based inspection framework (RBIF)	
WG 13	Maintenance process	
WG 14	Maintenance engineering	
WG 15	Safety and maintenance	

ISO/TC 267	Facility management	
7 Standards	8 Projects	National delegates: 0
Scope	Standardization in the field of facility management	
10	Working Groups directly under the Technical Committee	
AG 1	Roadmap	
AG 2	Communication	
CAG 1	Chairman's Advisory Group	
WG 1	Concepts and context	
WG 4	Strategy and policy	
WG 5	Human experience	
WG 6	Technology in facility management	
WG 7	Emergency management	
WG 8	Performance measurement and improvement	
WG 9	Leadership and innovation	

CEN/TC 348	Facility Management	
12 Standards	12 Projects	National delegates: 0
Scope	The scope of the CEN/TC is the preparation of European standards for Facility Management (FM) covering operational, tactical and strategic levels to support primary processes.	
3	Working Groups directly under the Technical Committee	
WG 6	Space measurement in Facility Management	
WG 9	Facility Management - Principles and processes	
WG 10	FM digital transformation	

1.1.11 Conformity

ISO/CASCO	Committee on conformity assessment	
38 Standards	6 Projects	National delegates: 3
Scope	The Policy Development Committee on Conformity Assessment (CASCO) shall: a) Develop International Standards and other ISO and ISO/IEC documents related to conformity assessment; b) Promote recognition and broad acceptance of international, regional and national conformity assessment systems, and appropriate use of International Standards and other ISO and ISO/IEC documents for conformity assessment; c) In relation to conformity assessment: i. Identify and analyze new or emerging trends; ii. Provide a forum for the exchange of information on the experience of stakeholders in the development and implementation of standards and on other related questions of interest; iii. Provide advice and recommendations to the ISO Council regarding new or revised policies or actions; iv. Evaluate current and new conformity assessment methods as relevant to emerging or changing standards or other technical specifications d) Support, through advice and oversight, ISO and ISO/IEC Technical committees when developing ISO and ISO/IEC documents related to conformity assessment requirements and guidance, including but not limited to sectoral conformity assessment requirements, and; e) Prepare supporting material such as brochures and other information related to the activities covered by CASCO.	
15	Working Groups directly under the Technical Committee	
AHG	Monitoring global developments relevant to conformity assessment	

CPC	Chair's Policy and Coordination Group
IAF/ILAC JSG	IAF-ILAC-ISO Joint Strategic Group
INetQI	Hosted ISO/CASCO INetQI group
JWG 62	Joint ISO/CASCO - ISO/TC 85 WG: ISO/TS 23406 (ITNS)
JWG 63	Joint ISO/CASCO - ISO/TC 304 WG: Development of ISO/IEC 17021-15
STAR	Strategic Alliance and Regulatory group
STTF	Spanish translation task force
TIG	Technical Interface Group
WG 30	Conformity assessment - General requirements for bodies operating certification of persons
WG 31	Conformity assessment - Requirements for the operation of various types of bodies performing inspection
WG 61	ISO TS 17012 Guidelines remote methods in audits management systems
WG 64	Revision of ISO/IEC 17007 - Conformity assessment - Guidance for drafting normative documents suitable for use for conformity assessment.
WG 65	Revision of ISO/IEC 17067 - Conformity assessment - Fundamentals of product certification and guidelines for product certification schemes.
WG 66	Development ISO/IEC TR 17035 Conformity Assessment – Guidelines for validation and verification programmes

CEN/CLC/JTC 1	Criteria for conformity assessment bodies	
20 Standards	6 Projects	National delegates: 0
Scope	Preparation of standards on criteria for bodies involved in testing calibration, certification, inspection, accreditation, their operation and assessment, and other related standards.	

CEN/TC 330	Qualification of construction enterprises	
1 Standards	0 Projects	National delegates: 0
Scope	To draft European standards (ENs) for the harmonisation of criteria and procedures to be used by qualification bodies for the qualification of construction enterprises.	

ILNAS/TC 105	Technical control missions (Stand-by)	
1 Standards	0 Projects	National delegates: 23
Scope	Technical control missions : 1- Development of a standardized list defining the scope of the terms "minor works" and "major works" 2- Precise definition of the standardized missions of the technical controller within the framework of the standardization of risks with a view to the subscription of a ten-year insurance, as well as the technical qualifications required in order to be accredited by insurers. 3- Precise definition of the missions of the technical controller as part of the verification of the stability of built structures, as well as the technical and other qualifications required in order to be able to exercise the profession of technical controller.	

ILNAS/TC 101	Living space (Stand-by)	
1 Standards	0 Projects	National delegates: 0

ISO/TC 59/SC 15	Framework for the description of housing performance	
4 Standards	0 Projects	National delegates: 0
Scope	Standardization in the field of basic performance standards on building construction including general rules for performance requirements for buildings as a whole and for subsystems, e.g., building elements, focusing on performance description and requirements, user requirements, and the means to evaluate housing and other types of building solutions. A special emphasis is placed on developing housing performance descriptions on aspects (e.g., for trading of houses as a whole), such as: - Structural integrity, durability and serviceability - Fire safety - Operating energy - Accessibility and usability Topics covered in more specific detail by other SCs within TC 59 and other technical committees are excluded. Determination of performance level values required for specific purposes is excluded as it will be decided by the stakeholders.	

1.1.12 Accessibility

ISO/TC 59/SC 16	Accessibility and usability of the built environment	
1 Standards	1 Projects	National delegates: 0
Scope	Standardization of accessibility in the built environment to ensure usability for the widest range of people.	
2	Working Groups directly under the Technical Committee	
AHG 1	Accessible environments for children with disabilities	
WG 4	Accessibility of immovable cultural heritage	

CEN/CLC/JTC 11	Accessibility in the built environment	
3 Standards	1 Projects	National delegates: 3
Scope	Development of the standardization deliverables as requested by Mandate/420 Phase II : - A European Standard (EN) on functional European accessibility requirements - A Technical Report (TR1) on technical performance criteria - A Technical Report (TR2) on conformity assessment	
1	Working Groups directly under the Technical Committee	
WG 1	Revision of EN 17210	

1.1.13 Spectator Facilities

CEN/TC 315	Spectator facilities	
9 Standards	3 Projects	National delegates: 0
Scope	General: Standards for architectural design and performance requirements for spectator facilities for sports and multipurpose venues (indoor and outdoor), in order to ensure safety, comfort of and visibility for the spectators. Permanent indoor venues such as theatres, cinemas, opera houses, lecture halls, etc. are excluded. Specific: a) Standards for layout criteria including spacing, access and egress, sight lines, positioning of separation fences and barriers; b) Standards for products by performance requirements for permanent, demountable, movable and telescopic stands.	
2	Working Groups directly under the Technical Committee	
WG 1	Layout criteria	
WG 2	Products	

1.1.14 Cleanroom Technology

ISO/TC 209	Cleanrooms and associated controlled environments		
20 Standards	3 Projects	National delegates: 1	
Scope	Standardization for cleanrooms and associated controlled environments for controlling cleanliness, as well as other attributes and characteristics, relating to facilities, sustainability, equipment, processes and operations.		
7	Working Groups directly under the Technical Committee		
WG 2	Biocontamination control		
WG 4	Design and construction		
WG 5	Operations		
WG 7	Separative devices (clean air hoods, gloveboxes, isolators and mini-environments)		
WG 11	Assessment of suitability of equipment and materials for cleanrooms		
WG 15	Airborne particle sampling techniques		
WG 16	General technical requirements of modular isolation units		

CEN/TC 243	Cleanroom technology	
16 Standards	2 Projects	National delegates: 0
Scope	Standardization and classification of controlled environment spaces and fixing of criteria for controlling contamination in such spaces. Guidance on the design, taking into account sources of contamination; air, liquid, materials, equipment and personnel as well as their interactions. Guidance on biocontamination control is included, as are provisions for the control of molecular contamination. Methods of aseptic processing are excluded, as are methods of cleaning and disinfection except with particular reference to inert surfaces in cleanrooms. The field of competence of the committee embraces all aspects of cleanroom technology, including the classification of controlled environments, the achievement of contamination control in such environments and the design, construction and operation of cleanroom technology.	
1	Working Groups directly under the Technical Committee	
WG 5	Biocontamination control	

1.1.15 Crime Prevention

CEN/TC 325	Crime prevention through building, facility and area design	
8 Standards	2 Projects	National delegates: 0
Scope	Development of European standards for the prevention of crime at industrial facilities, educational institutions, hospitals, residential building areas, department stores, squares and public meeting places through building, facility and area design. The standards will include their area of application, the corresponding strategy, security levels, building and area layout, application of construction elements, roads and pavements. The standards may be applied to new and significantly refurbished buildings, facilities and areas. The standards will not deal with building products and security systems components.	
2	Working Groups directly under the Technical Committee	
WG 1	Terminology, principles and process	
WG 3	Building design	

1.1.16 Conservation of Cultural Heritage

	CEN/TC 346	Conservation of Cultural Heritage	
	44 Standards	7 Projects	National delegates: 0
Scope	Characterisation of materials, the processes, practice, methodologies and documentation of conservation of tangible cultural heritage to support its preservation, protection and maintenance and to enhance its significance. It includes characterisation of deterioration processes and environmental conditions for cultural heritage and the products and technologies used for the planning and implementation of their conservation, restoration, repair and maintenance.		
9	Working Groups directly under the Technical Committee		
WG 3	Characterisation of materials constituting cultural heritage and evaluation of conservation treatments		
WG 7	Specifying and measuring Indoor/outdoor climate		
WG 9	Waterlogged wood		
WG 11	Conservation process		
WG 12	Showcases		
WG 15	Exhibition lighting of cultural heritage		
WG 17	Management and monitoring of built heritage		
WG 18	Characterisation, preservation, and management of archaeological sites		
WG 19	Management and protection of collections		

1.2
BUILDING CONSTRUCTION & CIVIL ENGINEERING

RESIDENTIAL AND NON-RESIDENTIAL BUILDINGS

ROADS AND MOTORWAYS

RAILWAYS AND UNDERGROUND RAILWAYS

BRIDGES AND TUNNELS

UTILITIES (FLUIDS, ELECTRICITY AND TELECOMMUNICATION)

DEMOLITION, SITE PREPARATION, DRILLING AND BORING

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1.2 Building Construction & Civil Engineering

1.2.1 Steel & Aluminum

ISO/TC 17	Steel		
324 Standards	49 Projects	National delegates: 2	
Scope	Standardization in the field of cast, wrought and cold-formed steel, including technical delivery conditions for steel tubes for pressure purposes. Excluded: - steel tubes within the scope of ISO / TC 5; - line pipe, casing, tubing and drill pipe within the scope of ISO / TC 67; - methods of mechanical testing of metals within the scope of ISO / TC 164.		
6	Working Groups directly under the Technical Committee		
AG 0	Advisory group		
AHG 1	Drafting guideline on response to SDGs		
SG 2	Studying the scope of PWI 13055		
SG 3	Smart Manufacturing in Iron and Steel Industry (SMISI)		
WG 28	Guideline for smart manufacturing in iron and steel industry		
WG 29	Revision of ISO 4885		
14	Sub-Committees		
SC 1	Methods of determination of chemical composition		
SC 3	Steels for structural purposes		
SC 4	Heat treatable and alloy steels		
SC 7	Methods of testing (other than mechanical tests and chemical analysis)		
SC 9	Tinplate and blackplate		
SC 10	Steel for pressure purposes		
SC 11	Steel castings		
SC 12	Continuous mill flat rolled products		
SC 15	Railway rails, rails fasteners, wheels and wheelsets		
SC 16	Steels for the reinforcement and prestressing of concrete		
SC 17	Steel wire rod and wire products		
SC 19	Technical delivery conditions for steel tubes for pressure purposes		
SC 20	General technical delivery conditions, sampling and mechanical testing methods		
SC 21	Environment related to climate change in the iron and steel industry		

CEN/TC 459	ECISS : European Committee for Iron and Steel Standardization		
450 Standards	87 Projects	National delegates: 3	
Scope	Standardization on the definition, classification, testing, chemical analysis and technical delivery requirements for iron and steel products.		
1	Working Groups directly under the Technical Committee		
WG 1	Steel circular economy		
12	Sub-Committees		
SC 1	Test methods for steel (other than chemical analysis)		
SC 2	Methods of chemical analysis for iron and steel		
SC 3	Structural steels other than reinforcements		
SC 4	Concrete reinforcing and prestressing steels		
SC 5	Steels for heat treatment, alloy steels, free-cutting steels and stainless steels		
SC 6	Wire rod and wires		
SC 7	Steels for pressure purposes		
SC 8	Steel sheet and strip for electrical applications		
SC 9	Coated and uncoated flat products to be used for cold forming		
SC 10	Steel tubes, and iron and steel fittings		
SC 11	Steel castings and forgings		
SC 12	General issues		

ISO/TC 167	Steel and aluminium structures		
	7 Standards	4 Projects	National delegates: 0
Scope	Standardization in the field of structural use of steel and alloys of aluminium as applied in building, civil engineering and related structures. The standards shall comprise the requirements for the design, fabrication and erection of steel and aluminium structures, together with materials, structural components and connections.		
2	Working Groups directly under the Technical Committee		
WG 3	Execution of steel structures		
WG 4	Structural bolting		

CEN/TC 135	Execution of steel structures and aluminium structures		
	6 Standards	7 Projects	National delegates: 3
Scope	Standardization of rules for execution of steel and aluminium structures for building and civil engineering works including rules for inspection and control.		
5	Working Groups directly under the Technical Committee		
WG 2	Technical requirements for the execution of steel structures		
WG 14	Execution of aluminium structures and steel structures with cold formed structural sheeting		
WG 15	EN 1090-1, Requirements for conformity assessment of structural components		
WG 16	Revision of EN 1090-3		
WG 17	Product category rules complementary to EN 15804 for Steel and Aluminium structural products for use in construction works		

1.2.2 Welding

ISO/TC 44	Welding and allied processes		
	321 Standards	42 Projects	National delegates: 1
Scope	Standardization of welding, by all processes, as well as allied processes; these standards include terminology, definitions and the symbolic representation of welds on drawings, apparatus and equipment for welding, raw materials (gas, parent and filler metals) welding processes and rules, methods of test and control, calculations and design of welded assemblies, welders' qualifications, as well as safety and health. Excluded: electrical safety matters related to welding which are the responsibility of IEC/TC 26.		
3	Working Groups directly under the Technical Committee		
JAG	IIW – ISO/TC 44 – CEN/TC 121 Coordination Committee		
TF 1	Review of ISO/TC 261 standards dealing with welding		
WG 5	Welding simulation		
12	Sub-Committees		
SC 3	Welding consumables		
SC 5	Testing and inspection of welds		
SC 6	Resistance welding and allied mechanical joining		
SC 7	Representation and terms		
SC 8	Equipment for gas welding, cutting and allied processes		
SC 9	Health and safety		
SC 10	Quality management in the field of welding		
SC 11	Qualification requirements for welding and allied processes personnel		
SC 12	Soldering materials		
SC 13	Brazing materials and processes		
SC 14	Welding and brazing in aerospace		
SC 15	Underwater welding		

CEN/TC 121	Welding and allied processes		
	340 Standards	59 Projects	National delegates: 2
Scope	Standardization of welding by all processes, as well as allied processes; these standards include terminology, definitions and the symbolic representation of welds on drawings, apparatus and equipment for welding, raw materials (gas, parent and filler metals) welding processes and rules, methods of inspection, testing and quality control, design of welded joints, qualification of welding personnel, as well as safety and health. Excluded: Electrical arc welding equipment and electrical safety matters related to welding which are the responsibility of CLC/TC 26; welding and brazing for aerospace application which is the responsibility of ASD-STAN/D4/WG4.		
4	Working Groups directly under the Technical Committee		
WG 3	Welding consumables		
WG 19	Equipment for gas welding, cutting and allied processes		
WG 21	Testing of welds		
WG 22	Electromagnetic pulse welding		
1	Sub-Committees		
SC 4	Quality management in the field of welding		

IEC/TC 26	Electric welding		
	29 Standards	4 Projects	National delegates: 0
Scope	To prepare standards for electrical safety, EMC and EMF matters related to the construction, installation and use of equipment for electric welding and allied processes in both normal and adverse welding environments, taking into account all safety aspects for protection against electrical and mechanical hazards for professional and non-professional use and all aspects to protect the environment. All electric welding processes are covered except electromagnetic processing.		
2	Working Groups directly under the Technical Committee		
WG 1	Safety requirements for electric welding equipment		
WG 5	EMC and EMF requirements for electric welding equipment		

CLC/TC 26	Electric welding		
	32 Standards	5 Projects	National delegates: 0
Scope	To prepare standards for electrical safety, EMC and EMF matters related to the construction, installation and use of equipment for electric welding and allied processes in both normal and adverse welding environments, taking into account all safety aspects for protection against electrical and mechanical hazards for professional and non-professional use and all aspects to protect the environment. All electric welding processes are covered except electromagnetic processing.		
2	Working Groups directly under the Technical Committee		
WG 1	Safety requirements for electric welding equipment		
WG 5	EMC and EMF requirements for electric welding equipment		

ISO/IIW	International Institute of Welding	
29 Standards	2 Projects	National delegates: 0
Scope	The International Institute of Welding was founded in 1948 by the welding institutes or societies in 13 countries, who felt the need to make possible more rapid scientific and technical progress. The technical field of the IIW encompasses the joining, cutting and surface treatment of metallic and non-metallic materials by such processes as welding, brazing, soldering, thermal cutting, thermal spraying, adhesive bonding, microjoining and embraces allied fields including quality assurance, non-destructive testing, standardization, inspection, health and safety, education, training, qualification, design and fabrication. The IIW's objectives are : - To organize the exchange of scientific and technical information and provide for the transfer of knowledge related to these techniques; - To prepare recommendations, state-of-the-art reports and guidelines related to the technical field; - To promote by all appropriate means the organization of national welding institutes or associations in countries where these do not exist; - To organize annual assemblies, international conferences and regional congresses; - To define guidelines for the education, training, qualification and certification of personnel involved in welding and rules for their application; - To prepare and assist in the formulation of international standards in collaboration with the International Organization for Standardization (ISO) - To promote and encourage the development of a sustainable environment within welding activities. For the development of some standards in the field of welding, ISO collaborates with the International Institute of Welding, which has been approved by the ISO Council as an international standardizing body in this field of technology. ISO standards in the field of welding are developed and maintained under the responsibility of ISO/TC 44 Welding and allied processes.	

1.2.3 Fasteners & Structural Bearings

ISO/TC 2	Fasteners	
195 Standards	41 Projects	National delegates: 0
Scope	Standardization of fasteners and fastened connections, including: - terms and definitions, - dimensions and tolerances, - mechanical, physical and functional properties, - fastener coatings and finishes, - test methods, - acceptance and quality procedures, - design and calculation of fastened assemblies/joints, - assembly methods, - assembly/joint qualification. The term fastener covers all types of products designed to mechanically join two or more parts to form a solid or movable fastened connection or to contribute essentially to establish this function, such as bolts, screws, nuts, washers, pins and rivets. Assembly/joint qualification includes qualification of the assembly/joint, the assembly tools as well as the qualification of the personnel. Excluded: Fasteners for aerospace applications, keys, and hose clamps.	
3	Working Groups directly under the Technical Committee	
WG 13	Washer and non-threaded fasteners	
WG 17	Stainless steel fasteners	
WG 18	Pre-applied adhesive systems for threaded fasteners	
5	Sub-Committees	
SC 7	Reference standards	
SC 11	Fasteners with metric external thread	
SC 12	Fasteners with metric internal thread	
SC 13	Fasteners with non-metric thread	
SC 14	Surface coatings	

CEN/TC 185	Fasteners		
	198 Standards	35 Projects	National delegates: 0
Scope	Standardization in the field of mechanical fasteners, taking cognizance of the ISO standards prepared by ISO/TC 2. Note: The term "Mechanical fastener" covers all types of products designed to connect mechanically two or more structural parts to form a solid or movable joint or to contribute essentially to establish this function, such as screws, nuts, washers, pins and rivets.		
1	Working Groups directly under the Technical Committee		
WG 6	Structural bolting		

CEN/TC 167	Structural bearings		
	12 Standards	1 Projects	National delegates: 0
Scope	Standardization of structural bearing device used for bridges, stadiums, industrial buildings etc. describing the various types and giving the recommendations for design, specifications for materials, manufacture and installation, criteria for acceptance and testing. Excluded, for example, are: connections between piers and columns obtained by reinforced concrete, welded or bolted connections.		
1	Working Groups directly under the Technical Committee		
WG 1	Revision of EN 1337		

1.2.4 Timber Structures

ISO/TC 165	Timber structures		
	54 Standards	3 Projects	National delegates: 0
Scope	Standardization concerning structural applications of timber, wood -based panels, other wood based products, and related lignocellulosic fibrous materials including: - requirements for design; - structural properties, performance, and design values of materials, products, components, and assemblies and; - test methods and requirements to establish related structural, mechanical and physical properties and performance. Note: In cases where topics of TC 165 are also a subject, for non-structural purposes, of the Technical Committee of the relevant material or product (e.g. TC 89 or TC 218) a strong liaison with the relevant Technical Committee will be established.		
5	Working Groups directly under the Technical Committee		
WG 2	Structural glued wood products		
WG 7	Connections and assemblies		
WG 10	Characteristic values and design specifications		
WG 11	Solid and mechanically laminated timber products		
WG 12	Structural use of bamboo		

CEN/TC 124	Timber structures		
	42 Standards	12 Projects	National delegates: 0
Scope	Preparation of standards for the structural use of timber, covering : - test methods for the determination of strength and stiffness for solid timber, glued laminated timber, mechanical joints, wood based panel products, timber structures and their components; - solid timber: preferred sizes, strength grading and strength classes system (included glued laminated timber), evaluation of mechanical properties; - glued laminated timber: essential requirements, production requirements and control, structural full size finger joints; - mechanical fasteners.		
7	Working Groups directly under the Technical Committee		
WG 1	Test methods		
WG 2	Solid timber		
WG 3	Glued laminated timber		
WG 4	Connectors		
WG 5	Prefabricated wall, floor and roof elements		
WG 6	Wood poles		
WG 7	Preparation of the revision of harmonised standards		

1.2.5 Cement

ISO/TC 74	Cement and lime (Stand-by)		
	7 Standards	0 Projects	National delegates: 0
Scope	Standardization - including definitions, methods of test and specifications - of various kinds of cement, and lime used in building construction and engineering, either for binding together the construction materials or as a constituent part of all kinds of paste, mortar and concrete.		

CEN/TC 51	Cement and building limes		
	41 Standards	9 Projects	National delegates: 1
Scope	Standardization in the field of definitions and terminology, specifications and methods of test for cements and limes used in building and civil engineering.		
7	Working Groups directly under the Technical Committee		
WG 6	Definitions and terminology of cement		
WG 10	Masonry cement		
WG 11	Building lime		
WG 12	Special performance criteria		
WG 13	Assessment of conformity		
WG 14	Hydraulic binders for road bases		
WG 15	Test methods of cement and its constituents		

ISO/TC 77	Products in fibre reinforced cement (Stand-by)		
	4 Standards	0 Projects	National delegates: 0
Scope	Standardization in the field of products in fibre reinforced cement and calcium silicate containing essentially inorganic hydraulic binders, asbestos and other fibres; to include specifications, dimensions, test methods and specific values for acceptance and application requirements. Standardization of test methods for asbestos and other fibres appropriate to their use in the manufacture of fibre reinforced cement products. Excluded : - products in concrete covered by ISO/TC 71; - products in gypsum covered by ISO/TC 152.		

1.2.6 Concrete

ISO/TC 71	Concrete, reinforced concrete and pre-stressed concrete	
79 Standards	27 Projects	National delegates: 0

Scope	Standardization of the technology of concrete, of the design and construction of concrete, reinforced concrete and pre-stressed concrete structures, so as to ensure progressive development both in quality and in price reduction; and of definitions and terms, as well as testing procedures, to facilitate international exchange of research work.
4	Working Groups directly under the Technical Committee
AHG 1	Concrete materials terminology
CAG	Chair Advisory Group
WG 1	Life-cycle management of concrete structures
WG 2	Design of concrete-filled steel tubular (CFST) hybrid structures
7	Sub-Committees
SC 1	Test methods for concrete
SC 3	Concrete production and execution of concrete structures
SC 4	Performance requirements for structural concrete
SC 5	Simplified design standard for concrete structures
SC 6	Non-traditional reinforcing materials for concrete structures
SC 7	Maintenance and repair of concrete structures
SC 8	Environmental management for concrete and concrete structures

CEN/TC 104	Concrete and related products	
180 Standards	31 Projects	National delegates: 3

Scope	CEN/TC 104 deals with the standardisation of provisions for concrete and related products, in particular with respect to properties and requirements for: - fresh and hardened concrete; - production and delivery of fresh concrete; - constituent materials of concrete, e.g. mixing water, additions and admixtures; - sheaths for prestressing tendons; grout for prestressing tendons; - fibres for use in concrete; - execution of concrete structures; - production and execution of sprayed concrete; - products for the protection and repair of concrete structures. Additionally relevant test methods and provisions for the assessment of conformity for the products and procedures mentioned above are standardized. Not covered by the scope of TC 104 are: - the constituent materials; aggregate (see CEN/TC 154), Pigments (see CEN/TC 298) and Cement (see CEN/TC 51); - the design of concrete structures and components (see CEN/TC 250/SC 2); - precast concrete products (see CEN/TC 229); - prefabricated autoclave aerated and no-fines light weight concrete components (see CEN/TC 177).
11	Working Groups directly under the Technical Committee
WG 4	Fly ash for concrete
WG 9	Silica fume for concrete
WG 10	Sprayed concrete
WG 11	Fibres for concrete
WG 14	Concrete: Health, Hygiene and Environment
WG 15	Ground granulated blast furnace slag
WG 16	Joint Working Group CEN/TC 104/SC 1, CEN/TC 104/SC 2 and CEN/TC 288 - Concrete for special geotechnical works and foundations
WG 17	Curing compounds
WG 18	Specification of ground calcium carbonate as an addition for concrete

WG 19	Decarbonisation, resource efficiency and sustainability
WG 20	New constituents for concrete
4	Sub-Committees
SC 1	Concrete - Specification, performance, production and conformity
SC 2	Execution of concrete structures
SC 3	Admixtures for concrete
SC 8	Protection and repairs of concrete structures

ILNAS/TC 102	Concrete	
1 Standards	6 Projects	National delegates: 9
Scope	Creation of the following national normative documents: - National application document for standard EN 206 – Concrete - Specification, performance, production and conformity - National annex of standard EN 13670 - Execution of concrete structures - National annex of standard EN 13369 - Precast concrete products; Creation of additional national annexes in the field of concrete for the following European standards: - EN 1338 - Concrete pavers - Requirements and test methods - EN 1339 - Concrete slabs - Requirements and test methods - EN 1340 - Elements for concrete curbs - Requirements and test methods - EN 1433 - Hydraulic channels for traffic areas used by pedestrians and vehicles - Classification, requirements, principles of construction and testing, marking and assessment of conformity.	

CEN/TC 177	Prefabricated reinforced components of autoclaved aerated concrete or light-weight aggregate concrete with open structure	
26 Standards	0 Projects	National delegates: 0
Scope	Standards for prefabricated reinforced components of autoclaved aerated concrete or lightweight aggregate concrete with open structure (expanded clay, pumice, etc.).	
2	Working Groups directly under the Technical Committee	
WG 1	Prefabricated Reinforced Components of AAC	
WG 3	Test methods	

CEN/TC 229	Precast concrete products	
49 Standards	27 Projects	National delegates: 2
Scope	Standardization of precast concrete products (plain, prestressed, or reinforced or composite steel/concrete) covering terminology, performance criteria, preferred shapes and dimensions, tolerances, relevant physical properties special test methods, special features due to transport, erection and connections, not duplicating the work of other TCs, referring however, to concrete material properties covered by TC 104, properties for reinforcing steel covered by ECISS/TC 19, all general design and structural aspects covered by the Eurocodes, particularly Eurocode 2, and excluding products covered by other technical committees (including TC 125, 128, 164, 165, 177, 178...)	
4	Working Groups directly under the Technical Committee	
WG 1	Products for which the stability requirements is predominant	
WG 3	Products for which the stability requirements is not dominant	
WG 4	Products which do not warrant a specific standard and which could be referred to in specific standards	
WG 5	Sustainability of concrete products and structural concrete cast in situ	

1.2.7 Masonry – Aggregates – Natural Stones

CEN/TC 125	Masonry		
	76 Standards	3 Projects	National delegates: 1
Scope	Standardization in the field of masonry units of clay, calcium silicate, dense aggregate concrete, lightweight aggregate concrete, autoclaved aerated concrete, natural stone, manufactured stone, mortar for masonry, ancillary components for masonry and associated test methods.		
10	Working Groups directly under the Technical Committee		
WG 1	Masonry units		
WG 2	Mortar		
WG 3	Ancillary components		
WG 4	Test methods		
WG 5	Application of external rendering and internal plastering		
WG 6	Thermal properties for masonry		
WG 7	Dangerous substances		
WG 8	Environmental product declaration		
WG 9	Clay flooring blocks		
WG 10	Brick slips		

CEN/TC 154	Aggregates		
	57 Standards	10 Projects	National delegates: 0
Scope	Standardization in the field of natural, recycled and manufactured aggregates, by specifying aggregate performance characteristics, sampling and methods of test.		
4	Working Groups directly under the Technical Committee		
WG 10	Armourstone		
WG 11	Railway ballast		
WG 12	Aggregates from secondary source		
WG 13	Dangerous substances		
5	Sub-Committees		
SC 1	Aggregates for concrete, mortar and grouts		
SC 3	Bituminous bound aggregates		
SC 4	Hydraulic bound and unbound aggregates		
SC 5	Lightweight aggregates		
SC 6	Test methods		

CEN/TC 246	Natural stones		
	48 Standards	1 Projects	National delegates: 0
Scope	Definitions, requirements and test methods for natural stones relating to rough blocks, slabs, semi-finished and finished products intended for use in building and for monuments with the exception of items in the field of work covered by other Technical Committees. The WG 4 (JWG 229/246) covers the agglomerated stones for floor coverings, wall coverings and ancillary uses, for interior and exterior use, with resin or cement binders or a combination of the two and does not cover pressed tiles such as terrazzo tiles which are the territory of CEN/TC 229, or natural stone which is the territory of CEN/TC 246. Note: Reference should be made as far as possible to existing test methods. Submission of WG 4 documents for the formal vote must be decided by resolutions of the two CEN/TCs.		

4	Working Groups directly under the Technical Committee
WG 1	Terminology, classification and characteristics
WG 2	Test methods
WG 3	Product specifications
WG 4	Agglomerated stones (JWG 229/246)

CEN/TC JWG 229/246	Agglomerated stones	
0 Standards	0 Projects	National delegates: 0

1.2.8 Greenhouses

CEN/TC 284	Greenhouses	
2 Standards	1 Projects	National delegates: 0
Scope	Standardization in the field of permanent and non-permanent greenhouses. To coordinate work in relation to greenhouses in other functional and material related CEN/TCs, and to establish the appropriate liaisons.	

1.2.9 Earthworks

CEN/TC 396	Earthworks	
14 Standards	7 Projects	National delegates: 0
Scope	Terminology for earthworks (terms and definition); Test methods (characterisation for earthworks of natural soils and rocks) in laboratory and in situ- including improved soils treated with binders or lime or other "additives" used in earthworks. Classification systems of soils and rocks suitable for use in embankment construction, possibly leading to a unified classification system or principles/rules for classifying soils and rocks for earthworks purposes; Characterisation of extraction ability ("excavatability"); Design of earthworks; Quality control of works and monitoring.	

8	Working Groups directly under the Technical Committee
WG 1	General matters
WG 2	Soil and rock classification for Earthworks
WG 4	Quality control
WG 5	Hydraulic fill
WG 6	Hydraulic placement of mineral waste
WG 7	Use of alternative materials in earthworks
WG 8	Test methods
WG 9	Sustainable earthworks

ILNAS/TC 109	Geotechnics	
0 Standards	1 Projects	National delegates: 12

CEN/TC 321	Explosives for civil uses		
	59 Standards	54 Projects	National delegates: 0
Scope	Standardization of explosives substances and articles, including safety requirements, terminology, categorization and test methods. Pyrotechnic articles and ammunition are excluded and explosives intended for use by the armed forces ot the police are also excluded.		
2	Working Groups directly under the Technical Committee		
WG 4	Detonators and relays		
WG 6	Explosives and propellants		

CEN/TC 451	Water wells and borehole heat exchangers		
	1 Standards	3 Projects	National delegates: 1
Scope	Standardization in the field of design, environmental aspects, drilling, construction, completion, operation, monitoring, maintenance, rehabilitation and dismantling of wells and borehole heat exchangers for uses of groundwater and geothermal energy. Oil, gas and other mining activities in these fields are excluded from the scope.		
2	Working Groups directly under the Technical Committee		
WG 1	Water wells		
WG 2	Borehole heat exchangers		

1.2.10 Geosynthetics

ISO/TC 221	Geosynthetics		
	47 Standards	12 Projects	National delegates: 1
Scope	Standardization of all geosynthetic products including geotextlles, geomembranes, geocomposite clay liners and other geosynthetic related products.		
5	Working Groups directly under the Technical Committee		
WG 2	Terminology, identification and sampling		
WG 3	Mechanical properties		
WG 4	Hydraulic properties		
WG 5	Durability		
WG 6	Design using geosynthetics		

CEN/TC 189	Geosynthetics		
	77 Standards	9 Projects	National delegates: 2
Scope	Standardization related to geosynthetics; terminology, sampling before testing, identification and marking rules, test methods, requirements related to the intended used.		
7	Working Groups directly under the Technical Committee		
WG 1	Geotextiles and geotextile-related products - General and specific requirements		
WG 2	Terminology, identification, sampling and classification		
WG 3	Mechanical testing		
WG 4	Hydraulic testing		
WG 5	Durability		
WG 6	Geosynthetic barriers - General and specific requirements		
WG 7	Geosynthetics sustainability and environmental topics		

1.2.11 Road Networks

CEN/TC 226	Road equipment		
56 Standards	29 Projects	National delegates: 1	
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		
8	Working Groups directly under the Technical Committee		
WG 1	Crash barriers, safety fences, guard rails and bridge parapets		
WG 2	Horizontal road signs		
WG 3	Vertical signs		
WG 4	Traffic control		
WG 6	Noise reducing devices		
WG 10	Passive safety of support structures for road equipment		
WG 11	Variable message signs		
WG 12	Road interaction - ADAS / Autonomous vehicles		

CEN/TC 227	Road materials		
174 Standards	19 Projects	National delegates: 1	
Scope	To prepare specifications, test methods, compliance criteria for materials for construction and maintenance of roads, airfields and other trafficked areas.		
7	Working Groups directly under the Technical Committee		
WG 1	Bituminous mixtures		
WG 2	Surface Dressing, Sprays and Slurry Surfacing (incorporating Microsurfacing)		
WG 3	Materials for concrete roads including joint fillers and sealants		
WG 4	Hydraulic bound and unbound mixtures (including byproducts and waste materials)		
WG 5	Surface characteristics		
WG 6	Sustainability		
WG 7	Chairman's Advisory Group		

CLC/BTTF 69-3	Road traffic signal systems		
3 Standards	0 Projects	National delegates: 0	
Scope	To prepare a standard, as described in BT (DE/NOT)141 (Road traffic signal systems).		
1	Working Groups directly under the Technical Committee		
WG 02	Road traffic signal systems		

CEN/TC 336	Bituminous binders	
62 Standards	13 Projects	National delegates: 0
Scope	Terminology, methods of sampling, standardization of test and assessment methods, and specifications for bitumens and bituminous binders used for paving and industrial applications. Natural asphalts are not within the scope of CEN/TC 336.	
2	Working Groups directly under the Technical Committee	
WG 1	Bituminous binders for paving	
WG 2	Fluxed bitumen and bituminous emulsions	

CEN/TC 178	Paving units and kerbs	
13 Standards	1 Projects	National delegates: 0
Scope	Standardization of the performance requirements and their associated methods of test of paving units, kerbs and accessories manufactured from clay,concrete, natural stone or other materials used for the surfacing of footways, roads and other paved areas (dock, industrial, parking) considering their application.	
5	Working Groups directly under the Technical Committee	
WG 1	Precast concrete products	
WG 2	Natural stone products	
WG 3	Clay products	
WG 4	Test methods for simulation of ageing of pavers by polishing	
WG 5	Tactile Paving	

1.2.12 Railway Networks

ISO/TC 269	Railway applications	
32 Standards	30 Projects	National delegates: 3
Scope	Standardization of all systems, products and services specifically related to the railway sector, including design, manufacture, construction, operation, and maintenance of parts and equipment, methods and technology, interfaces between infrastructure, vehicles and the environment, excluding those electrotechnical and electronic products and services for railways which are within the scope of IEC/TC 9.	
9	Working Groups directly under the Technical Committee	
AG 17	Strategic liaison group	
AHG 2	Rail vehicle hydrogen refueling equipment	
AHG 7	Migration strategy	
CAG 1	Chair's Advisory Group	
WG 5	Railway quality management system	
WG 6	Fire protection	
WG 8	Platform barrier systems	
WG 9	Wheel-rail contact geometry	
WG 10	Terms and definitions	
3	Sub-Committees	
SC 1	Infrastructure	
SC 2	Rolling stock	
SC 3	Operations and services	

CEN/TC 256	Railway applications		
313 Standards	127 Projects	National delegates: 4	
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.		
3	Working Groups directly under the Technical Committee		
WG 51	Advisory Group Labour Health and Safety		
WG 56	Chairman's Advisory Group		
WG 57	Adoption of ISO Standards		
4	Sub-Committees		
SC 1	Infrastructure		
SC 2	Rolling stock products		
SC 3	Rolling Stock Systems		
SC 4	Cross-functional applications		

IEC/TC 9	Electrical equipment and systems for railways		
161 Standards	37 Projects	National delegates: 3	
Scope	To prepare international standards for the railways field which includes rolling stock, fixed installations, management systems (including supervision, information, 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.		
50	Working Groups directly under the Technical Committee		
WG 40	Railway applications-Urban Guided Transport Management and Command/Control Systems		
WG 43	Railway applications - Train communication network (TCN)		
WG 46	Onboard multimedia systems for railways		
WG 48	ODIS - On board Driving Information System		
WG 50	Railway applications – Fixed installations – Electronic power converter		
PT 591	Railway Applications - Rolling Stock - Specification and verification of energy consumption		
PT 641	Railway applications - Fixed installations - Requirements for the validation of simulation tools used for the design of traction power supply systems		
PT 62848-3	Railway application – Fixed installations – D.C. surge arresters and voltage limiting devices – Part 3: Application Guide		
PT 62973-2	Railway applications - Batteries for auxiliary power supply systems - Part 2: Nickel Cadmium (NiCd) batteries		
PT 62973-3	Railway applications – Rolling stock – Batteries for auxiliary power supply systems – Part 3: Lead acid batteries		
PT 62973-4	Railway applications - Rolling stock - Batteries for auxiliary power supply systems - Part 4: Secondary sealed nickel-metal hydride batteries		
PT 62973-5	Railway applications - Rolling stock - Batteries for auxiliary power supply systems - Part 5: Lithium-ion batteries		
PT 63341-2	Railway applications - Rolling stock - Fuel cell systems for propulsion - Part 2: Hydrogen storage system		
PT 63438	Railway applications - Fixed installations – Protection principles for AC and DC electric traction power supply systems		
PT 63452	Railway applications - Cybersecurity		
PT 63453	Railway applications - Current collection systems - Validation of simulation of the dynamic interaction between pantograph and overhead contact line		
PT 63477	Coordination requirements and energy-saving performance evaluation for EFS in DC Traction Power Systems		

PT 63488	Railway applications - Technical criteria for the coordinations in neutral-section passing system for train
PT 63395	Interoperability and safety of dynamic wireless power transfer (WPT) for railways
PT 63498	System Energy Efficiency
PT 63536	Railway applications - Signalling and control systems for non UGTMS Urban Rail systems
MT 60310	Railway applications - Traction transformers and inductors on board rolling stock
MT 60349	Electric traction - Rotating electrical machines for rail and road vehicles
MT 60913	Railway applications – Fixed installations – Electric traction overhead contact lines
MT 61373	Railway applications - Rolling stock equipment - Shock and vibration tests
MT 62128	Revision of IEC 62128 series
MT 62278	Railway applications – Specification and demonstration of reliability, availability, maintainability and safety (RAMS)
MT 62425	Railway applications – Communication, signalling and processing systems – Safety related electronic systems for signalling
MT 62427	Railway applications – Compatibility between rolling stock and train detection systems
MT 62486	Railway applications – Current collection systems – Technical criteria for the interaction between pantograph and overhead line (to achieve free access)
MT 62888	Railway applications – Energy measurement on board trains
MT 62973-1	Railway applications – Rolling stock – Batteries for auxiliary power supply systems – Part 1: General requirements
JWG 51	Fuel cell systems for railway applications linked to TC 105
AG CAG	Chair's Advisory Group
AG SLG	IEC UIC SLG (Strategic Liaison Group)
AG SLG SG FI	IEC UIC SLG Subgroup Fixed Installations
AG SLG SG Multimedia	IEC UIC SLG Subgroup Multimedia
AG SLG SG PHM	IEC UIC SLG Subgroup Prognostics Health Management
AG SLG SG Trainet	IEC UIC SLG Subgroup Trainet
ahG 19	Studying and reporting on ACEE Guides
ahG 20	Study ACSEC Guide 120 in view of implications on the work of TC 9
ahG 28	Safe transmission protocol
ahG 29	Interoperability and safety of dynamic wireless power transfer (WPT) for railways
ahG 30	IEC/TC 9 Standards Map
ahG 31	Sustainable electrified transportation (SET)
ahG 32	Lightning Protection for Traction Power Supply System of Rail Transit
ahG 33	Fixed installation - SCADA for Railways
ahG 34	Gaseous Hydrogen Filling Stations
JAHG 52	Fuel container for rail linked to ISO/TC 197/SC 1
JAHG 53	Fuel system components for rail linked to ISO/TC 197/SC 1

CENELEC	CLC/TC 9X	Electrical and electronic applications for railways	
	218 Standards	55 Projects	National delegates: 3
Scope	Standardization of electrical and electronic systems, equipment and associated software for use in all railway applications, whether on vehicles or fixed installations, including urban transport. This includes in particular communication, information, supervision and control systems.		
24	Working Groups directly under the Technical Committee		
WG 12	Communication means between safety equipment and man machine interface (mmi)		
WG 15	Liaison between CEN/TC278/WG3 and IEC/TC9/WG43&46 and Modtrain FIS		
WG 15-07	ICT for Railways - 7th edition		
WG 15-10	Digital Automatic Coupling (DAC)		

WG 16	Survey group 16 for assessment of Modtrain functional interface specifications (FIS)
WG 17	Survey group 17 for preparation of transfer of EN 50155 to SC9XB
WG 18	Railway application -- Electromagnetic compatibility (EMC)
WG 19	Alignment of prEN 50153, prEN 50388 and EN 50122
WG 21	Revision of EN 50126-1 & -2
WG 26	IT-Security / Cybersecurity in the railway sector
WG 27	Survey group Current collectors on commercial road vehicles in overhead contact line operation
WG 28	Survey Group on a cross functional standard on software
WG 29	Survey Group on a "Guide to the use of EN 45545-2 and EN 45545-5 for electronic equipment on board of rolling stock".
WG 30	Current collectors for ground-level feeding system on road vehicles in operation
WG 31	Survey Group on NiCd batteries on board of rolling stock.
WG 32	Survey Group on Simulation
WG 33	Survey group on Climate change adaptation
WG 34	Survey Group on digitalization for railways
WG 35	Survey Group Revision of EN 50553 Requirements for running capability in case of fire on board of rolling stock
WG 36	Survey Group on "Merging Strategy"
WG 37	Energy measurement on board trains
WG 38	Survey Group on Artificial Intelligence (AI)
WG 39	Survey Group on the parallel vote of IEC 63341-1 ED1
WG 40	Survey Group on the parallel vote of IEC 63341-2 ED1
3	Sub-Committees
SC 9XA	Communication, signalling and processing systems
SC 9XB	Electrical, electronic and electromechanical material on board rolling stock, including associated software
SC 9XC	Electric supply and earthing systems for public transport equipment and ancillary apparatus (Fixed installations)

1.2.13 Water Networks

	CEN/TC 164	Water supply	
	233 Standards	61 Projects	National delegates: 0
Scope	To establish standards for the installation and performance requirements of systems, constructions of components used for the water supply from the production facility, including the treatment of the water, to the taps attached or unattached to a sanitary appliance with the view of maintaining the quality of water as stated in Directive 80/778.		
11	Working Groups directly under the Technical Committee		
WG 1	External systems and components		
WG 2	Internal systems and components		
WG 3	Effects of materials in contact with drinking water		
WG 8	Sanitary tapware		
WG 9	Chemicals and filtering media for water treatment		
WG 10	Hot water and cold water storage within dwellings		
WG 12	Flexible hoses assemblies		
WG 13	Water conditioning equipment inside buildings		
WG 14	Valves and fitting for buildings and devices to prevent pollution by backflow		
WG 15	Security of drinking water supply		
WG 16	In-situ generating and dosing of biocides for water treatment		

ISO/TC 282	Water reuse		
36 Standards	12 Projects	National delegates: 0	
Scope	Standardization of water reuse of any kind and for any purpose. It covers both centralized and decentralized or on-site water reclamation, and direct and indirect reuse applications, taking into consideration the potential for unintentional exposure or ingestion. It includes technical, economic, environmental and societal aspects of water reuse. Water reuse comprises a sequence of the stages and operations involved in collection, conveyance, processing, storage, distribution, consumption, drainage and other handling of wastewater, and treated effluent, including water that is reused in repeated, cascaded and recycled ways. The scope of ISO/PC 253 (Treated wastewater reuse for irrigation) is merged therein. Excluded: - the limits of allowable water quality in water reuse, which should be determined by the governments, WHO and other relevant competent organizations. - all aspects of ISO/TC 224 scope (service activities relating to drinking water supply systems and wastewater systems -- Quality criteria of the service and performance indicators) - methods for the measurement of water quality, which are covered by ISO/TC 147.		
4	Working Groups directly under the Technical Committee		
CAG	Chair Advisory Group		
CTG 1	Communications Task Group		
WG 2	Terminology		
WG 3	Water systems for biopharma industries		
4	Sub-Committees		
SC 1	Treated wastewater reuse for irrigation		
SC 2	Water reuse in urban areas		
SC 3	Risk and performance evaluation of water reuse systems		
SC 4	Industrial water reuse		

CEN/TC 165	Waste water engineering		
121 Standards	22 Projects	National delegates: 0	
Scope	Functional standards, standards for performance and installation in the field of wastewater engineering for systems and components. Where there is no existing material related TC, product standards for all components of discharge pipes, drain and sewer pipes, pipelines, separators etc. according to the resolutions of BT (for the organization of work in the field of metallic tubes see resolution BT 160/1989). Standards for design, calculation, construction, commissioning, operation and maintenance in the field of wastewater engineering, from the point of origin (with the exception of the product standards for sanitary appliances*) up to the point of disposal, including treatment plants and use of treated wastewater for purposes other than agricultural irrigation. *) flushing cisterns, urinals, kitchen sinks, basins bidets, baths, (including whirlpool baths) and shower trays, see TC 163 Resolution 2 (London), WG 3 and 4.		
16	Working Groups directly under the Technical Committee		
WG 1	General requirements for pipes		
WG 2	Vitrified clay pipes		
WG 4	Manhole tops, gully tops, drainage channels and other ancillary components for use outside buildings		
WG 7	Steel pipes		
WG 8	Separators		
WG 9	Concrete pipes		
WG 10	Installation of buried pipes for gravity drain and sewer systems		
WG 11	Gratings, covers and other ancillary components for use inside buildings		
WG 12	Structural design of buried pipelines		
WG 13	Renovation and repair of drains and sewers		
WG 21	Drainage systems inside buildings		
WG 22	Drain and sewer systems outside buildings		
WG 30	Terminology in the field of wastewater engineering		

WG 40	Wastewater treatment plants > 50 PT
WG 41	Small type sewage treatment plants (< 50 inhabitants)
WG 50	Use of treated wastewater

CEN/TC 203	Cast iron pipes, fittings and their joints		
18 Standards	11 Projects	National delegates: 0	
Scope	Standardization of cast iron pipes, fittings, accessories, and their joints for water supply, drainage and sewerage, gas supply and other application. Valves, pumps and malleable iron parts are excluded.		
5	Working Groups directly under the Technical Committee		
WG 1	Water pipelines under pressure		
WG 7	Influence of non metallic materials used by ductile iron pipelines on potable water		
WG 8	Coatings for pipes, fittings and accessories		
WG 9	Revision of EN 545, EN 598 and EN 969		
WG 10	Life cycle costs (LCC) and Life cycle assessment (LCA) for ductile iron pipe systems		

CEN/TC 92	Water meters	
9 Standards	5 Projects	National delegates: 0
Scope	Standardization for meters to measure volume flow of cold potable water and heated water enclosed in full conduits, irrespective of technology applied.	
1	Working Groups directly under the Technical Committee	
WG 2	General requirements	

CEN/TC 107	District heating and cooling systems	
20 Standards	11 Projects	National delegates: 0
Scope	Standardization in the field of district heating and district cooling systems including design, prefabricated pipe systems, construction, integration, control, optimization, monitoring. Excluded: Aspects of DHC systems already covered by existing committees or future standardization. NOTE: This TC foresees a close cooperation with existing committees that may support DHC at system level such as: CEN/TC 113, CEN/TC 155, CEN/TC 156, CEN/TC 197, CEN/TC 228, ISO/ TC 60, ISO/TC 265, ISO/TC 301, ISO/TC 341	
10	Working Groups directly under the Technical Committee	
WG 2	Basic consideration	
WG 3	PUR-foam properties	
WG 4	Joint casing systems	
WG 5	Fitting, Valves and Twin Pipes	
WG 9	PE Casings	
WG 10	Flexible pipe systems for district heating	
WG 11	Surveillance systems	
WG 12	Polymer Service Pipes	
WG 13	Preinsulated district heating pipe systems - Design and installation	
WG 14	District cooling	

1.2.14 Gas Networks

CEN/TC 234	Gas infrastructure		
	32 Standards	15 Projects	National delegates: 0
Scope	Standardisation in the field of gas pipeline infrastructure for gaseous energy carriers and blends thereof from the input into the on-shore transmission network up to the inlet connection of gas appliances; This includes related functional requirements for injection, transmission, compression, pressure control, storage, blending, gas treatment, odorisation, distribution, measuring, and associated installation pipework, as well as related requirements such as safety, gas quality, sustainability, environment and emissions. Within the scope of CEN/TC 234, gaseous energy carriers and blends describe gases which are in the gaseous state when conveyed in the gas pipeline infrastructure such as hydrogen, hydrogen rich, and methane rich gases, dimethyl ether (DME) and propane and butanes used for combustion and/or as feedstock, excluding steam and compressed air.		
14	Working Groups directly under the Technical Committee		
WG 1	Gas installations		
WG 2	Gas supply systems up to and including 16 bar and pressure testing		
WG 3	Gas Transportation		
WG 4	Gas underground storage		
WG 5	Gas measuring		
WG 6	Gas pressure regulation		
WG 7	Gas compression		
WG 8	Industrial piping		
WG 10	Service Lines		
WG 11	Gas Quality		
WG 12	Safety and Integrity management		
WG 13	PNR H2NG/H2 in NG systems		
WG 14	Methane emissions		
WG 15	CAG - Convenors and Secretaries group		

CEN/TC 235	Gas pressure regulators and associated safety devices for use in gas transmission and distribution		
	2 Standards	3 Projects	National delegates: 0
Scope	Standardization of the requirements for the construction, performance, testing and marking of gas pressure regulators and associated safety devices for use in gas transmission and distribution for pressures up to 100 bar.		
1	Working Groups directly under the Technical Committee		
WG 1	Safety shut-off devices, safety relief devices and small regulators with or without safety devices used in gas transmission and/or distribution.		

CEN/TC 237	Gas meters		
	10 Standards	5 Projects	National delegates: 0
Scope	Standardization of the requirements for the construction, performance and safety of gas meters, including diaphragm, rotary displacement and turbine and electronic gas meters, and all associated conversion devices.		
7	Working Groups directly under the Technical Committee		
WG 2	Rotary displacement gas meters		
WG 3	Turbine meters		
WG 4	Associated conversion devices		
WG 5	General requirements		

WG 8	Diaphragm meters
WG 9	Ultrasonic gas meters
WG 10	Thermal-mass flow-meter based gas meters

CEN/TC 238	Test gases, test pressures, appliance categories and gas appliance types		
62 Standards	8 Projects	National delegates: 0	
Scope	Standardization of test gases, test pressures, appliance categories and gas appliance types as a reference standard to serve as the basis for the elaboration of standards for gas appliances, including mirroring the activity work of ISO/TC193 'Natural gas'.		
2	Working Groups directly under the Technical Committee		
WG 1	EN 437		
WG 2	Emission measurements		

CEN/TC 282	Installation and equipment for LNG	
18 Standards	3 Projects	National delegates: 0
Scope	Developing and maintaining standards in the field of installations, equipment and procedures used for production, transportation, transfer, storage, regasification and use of LNG, taking into account the programme of work of other CEN technical committees dealing with LNG. Standardization covers the supply chain from the inlet to the outlet of the relevant natural gas/LNG facilities, and comprises both onshore and offshore siting options for them. Standardization involves contribution to and adoption of ISO standards (under Vienna Agreement) as well of development of homegrown European standards. CEN/TC 282 further coordinates questions concerning LNG in the technical work of technical committees dealing with cryogenic equipment.	
1	Working Groups directly under the Technical Committee	
WG 5	Design of onshore installations	

1.2.15 Electricity Networks: Overhead Lines

IEC/TC 7	Overhead electrical conductors	
17 Standards	2 Projects	National delegates: 0
Scope	To prepare International Standards and Specifications for fabrication and utilization of overhead electrical conductors, including: - All types of overhead ground wires, - All shapes of round and non-round wires, - Conductors made of various metals such as aluminium, steel, copper, or composite material supporting core etc. and their combinations, - Test methods for assessment of overhead electrical conductor performance in operation, - Have the cooperation with TC11 on hardware and accessories directly connected to conductor for the purpose of maintaining electrical/mechanical continuity, - Have the cooperation with SC86A on aerial optical cables used either for phase conductors or ground wires, such as the publication of the original OPGW standard now named IEC 60794-4.	
5	Working Groups directly under the Technical Committee	
MT 1	Aluminium and aluminium alloy with and without steel or alternative reinforcement stranded conductors	
PT 61089	Concentric lay overhead electrical stranded conductors and tests methods	
PT 61597	Maintenance of IEC 61597/TR	
PT 62818	IEC 62818	
PT 63089	Development of IEC 63089/Ed1	

CENELEC	CLC/TC 7X	Overhead electrical conductors	
	18 Standards	1 Projects	National delegates: 0
Scope	Preparation and maintenance of European standards regarding fabrication, test methods and utilization of: - all kinds of overhead electrical conductors including ground wires made of various materials (aluminium, steel, copper, composite) - all shapes of round and non-round wires for conductors and cores - hardware directly connected to conductors.		
1	Working Groups directly under the Technical Committee		
WG 01	Conductors for Overhead Lines - Characteristics of Greases (Revision of EN 50326)		

IEC	IEC/TC 11	Overhead lines	
	14 Standards	1 Projects	National delegates: 0
Scope	To prepare International Standards for Overhead Lines above 1 kV AC and 1.5 kV DC Nominal Voltage, excluding railway traction supports and line materials. These Standards will provide design criteria that may serve as a guide to national regulations differing from each other only in the local conditions and in the assumed safety level. These Standards will deal with mechanical loadings and strength of the line, with clearances and with tests on supports, fittings and foundations. Including design requirements for supports and foundations to be able withstand the required mechanical loadings. Excluding Recommendations dealing with tests on conductors and insulators established respectively by Technical Committees Nos 7 and 36.		
5	Working Groups directly under the Technical Committee		
JWG 13	IEC 61284 - Requirements and tests for fittings - linked to TC 7		
WG 14	Requirements and tests for aeronautical warning balls		
MT 1	Maintenance of TC 11 documents		
MT 2	Maintenance of IEV 466 Parts		
AG 15	Committee Advisory Group		

CENELEC	CLC/TC 11	Overhead electrical lines exceeding 1 kV a.c. (1,5 kV d.c.)	
	32 Standards	1 Projects	National delegates: 0
Scope	To prepare harmonized standard for overhead electrical lines. The standard(s) will specify the general requirements that should be met by the design and construction of an overhead line to ensure that the line is suitable for its purpose with regard to safety of persons, maintenance, operation and environmental consideration. CENELEC, CEN, IEC publications and other relevant documents have to be considered.		
7	Working Groups directly under the Technical Committee		
WG 08	Maintenance of CLC/TC 11 Standards		
WG 08-01	Maintenance of CLC/TC 11 standards		
WG 08-02	Maintenance of CLC/TC 11 standards		
WG 08-03	Maintenance of CLC/TC 11 standards		
WG 09	Restructuring EN 50341		
WG 10	Final Review EN 50341-1		
WG ED	Editing Committee of TC 11		

IEC/TC 122	UHV AC transmission systems		
	8 Standards	4 Projects	National delegates: 0
Scope	Standardization in the field of AC transmission technology for highest voltage of the system exceeding 800 kV, particularly the preparation of systems-oriented specifications such as those for planning, design, technical requirements, construction, commissioning, reliability, availability, operation and maintenance. Development of processes for specifying requirements and demonstrating whether the required performance of UHV systems is assured. Responsibility for equipment standards remains with product TCs, except for specific equipment which is not within the scope of an existing TC but is nevertheless essential for the UHV transmission system. The UHV AC Transmission TC will consult and coordinate with the product TCs in all systems-related aspects of equipment standards.		
4	Working Groups directly under the Technical Committee		
WG 1	System design		
WG 2	Substation and Transmission Line Design		
WG 3	Commissioning		
WG 4	Maintenance		

IEC/TC 36	Insulators		
	58 Standards	19 Projects	National delegates: 0
Scope	Standardization of insulators for high voltage systems and equipment including bushings, insulators for overhead lines and substations and their couplings.		
14	Working Groups directly under the Technical Committee		
WG 11	Revision of IEC 60815, Edition 1: Guide for the selection of insulators in respect of polluted conditions		
PT 63264	Fiber optical bushings for a.c. voltage greater than 1 000 v and d.c. voltage greater than 1 500 v – definitions, test methods and acceptance criteria		
PT 63414	Artificial pollution tests on high-voltage insulators made of hydrophobicity transfer materials to be used on a.c. and d.c. systems		
PT 63432	Room temperature vulcanising (RTV) silicone rubber for outdoor insulators		
MT 14	Revision of Chapter 471 of IEC 60050		
MT 15	Review of IEC 61245 Ed.1.0		
MT 16	Review of IEC/TS 62073		
MT 17	Revision of IEC 60305 and 60433		
MT 18	Revision of IEC 61109, 61466-1,-2 & IEC 62609 and IEC 61952-2		
MT 19	Revision of IEC 62217		
MT 20	Revision of IEC 60383-1		
MT 21	Revision of IEC 60120, IEC 60372 and IEC 60471		
MT 23	Revision of IEC 60437		
MT 24	Revision of IEC 62772 and IEC 61462		
1	Sub-Committees		
SC 36A	Insulated bushings		

CLC/SR 36	Insulators		
	39 Standards	4 Projects	National delegates: 0

CENELEC	CLC/TC 36A	Insulated bushings	
	18 Standards	1 Projects	National delegates: 0
Scope	To prepare harmonized standards for bushings for use in electrical apparatus, transformers and installations.		
3	Working Groups directly under the Technical Committee		
WG 01	Open type bushings for liquid filled transformers		
WG 02	Plug-in type bushings for liquid filled transformers and apparatus		
WG 03	Revision of EN 50366 and EN 50386		

1.2.16 Electricity Networks: Power & Energy

IEC	IEC/TC 8	System aspects of electrical energy supply	
	44 Standards	42 Projects	National delegates: 0
Scope	To prepare and coordinate, in co-operation with other TC/SCs, the development of international standards and other deliverables with emphasis on overall system aspects of electricity supply systems and acceptable balance between cost and quality for the users of electrical energy. Electricity supply system encompasses transmission and distribution networks, generators and loads with their network interfaces. This scope includes, but is not limited to, standardization in the field of: • Terminology for the electricity supply sector; • Characteristics of electricity supplied by public networks; • Network management from a system perspective; • Connection of network users (generators and loads) and grid integration; • Design and management of de-centralized electricity supply systems (e.g. microgrids, systems for rural electrification). While relying on efficient and secure data communication and exchange, TC 8's scope does not include standards for communication with appliances and equipment connected to the electric grid or for communication infrastructure serving the electric grid. TC 8 is responsible for basic publications (horizontal standards) on standard voltages, currents and frequencies ensuring the consistency of the IEC publications in these fields. TC 8 cooperates also with several organizations active in the field of electricity supply such as CIGRE, CIRED, IEEE, AFSEC, IEA.		
10	Working Groups directly under the Technical Committee		
WG 11	Power Quality		
MT 1	Maintenance of IEC 60038, IEC 60059 and IEC 60196		
MT 8	To define a general framework and procedures for maintenance of electrical energy supply networks		
JWG 1	Terminology linked to SC 8A, SC 8B, SC 8C		
JWG 9	LVDC distribution linked to SyC LVDC		
JWG 10	Distributed energy ressources connection with the grid linked to TC 120, TC 82, SC 22E		
JWG 12	Requirements for measurements used to control DER and loads linked to TC 85, TC 95, SC 77A		
AG 1	Chairman's Advisory Group (CAG)		
AG 13	Digital content and system approach		
ahG 14	Good working practice document development		
3	Sub-Committees		
SC 8A	Grid Integration of Renewable Energy Generation		
SC 8B	Decentralized electrical energy systems		
SC 8C	Network Management in Interconnected Electric Power Systems		

CENELEC	CLC/TC 8X	System aspects of electrical energy supply	
	30 Standards	5 Projects	National delegates: 0
Scope	To prepare the necessary standards framework and coordinate the development, in cooperation with other TC/SCs, of CENELEC standards needed to facilitate the functioning of electricity supply systems in open markets. TC8X also covers High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV.		
3	Working Groups directly under the Technical Committee		
WG 01	Physical characteristics of electrical energy (former BTTF 68-6)		
WG 03	Requirements for connection of generators to distribution networks		
WG 06	System aspects for HVDC grid		

IEC	IEC/TC 13	Electrical energy measurement and control	
	79 Standards	7 Projects	National delegates: 0
Scope	Standardization in the field of a.c. and d.c. electrical energy measurement and control, for smart metering equipment and systems forming part of smart grids, used in power stations, along the network, and at energy users and producers, as well as to prepare international standards for meter test equipment and methods. Excluded: Standardization for the interface of metering equipment for interconnection lines and industrial consumers and producers (covered by TC 57).		
8	Working Groups directly under the Technical Committee		
WG 11	Electricity metering equipment		
WG 14	Data exchange for meter reading, tariff and load control		
WG 15	Smart Metering Functions and Processes		
PT 62057	Test equipment, techniques and procedures for electrical energy meters		
PT 62057-3	Test equipment, techniques and procedures for electrical energy meters - Part 3: Automatic Meter Testing System (AMTS)		
JWG 16	Mapping between the common information model CIM and DLMS/COSEM data models and message profiles linked to TC 57		
JAHG 17	Initial study into synergy and interplay between IEC/TC 13 and IEC/TC 69 linked to TC 69		
AG 18	Chair Advisory Group		

CENELEC	CLC/TC 13	Electrical energy measurement and control	
	91 Standards	6 Projects	National delegates: 0
Scope	Standardization in the field for metering equipment and systems (using whenever possible IEC standards), including smart metering systems, for electrical energy measurement, tariff- and load control, customer information and payment, for use in power stations, along the network and at energy end users, as well as to prepare international standards for meter test equipment and methods. Excluded: Standardization for the interface of metering equipment for interconnection lines and industrial consumers and producers requiring energy management type interfaces to the control system, covered by IEC/TC 57.		
2	Working Groups directly under the Technical Committee		
WG 01	Electricity meters for active energy of class a, b and c		
WG 03	Measuring systems for stationary supply equipment		

CENELEC	CLC/BTTF 128-2	Erection and operation of electrical test equipment	
	1 Standards	1 Projects	National delegates: 0
Scope	To revise EN 50191:1999 "Erection and operation of electrical test equipment".		

IEC/TC 57	Power systems management and associated information exchange		
	231 Standards	40 Projects	National delegates: 0
Scope	To prepare international standards for power systems control equipment and systems including EMS (Energy Management Systems), SCADA (Supervisory Control And Data Acquisition), distribution automation, teleprotection, and associated information exchange for real-time and non-real-time information, used in the planning, operation and maintenance of power systems. Power systems management comprises control within control centres, substations and individual pieces of primary equipment including telecontrol and interfaces to equipment, systems and databases, which may be outside the scope of TC 57. The special conditions in a high voltage environment have to be taken into consideration. Note 1: Standards prepared by other technical committees of the IEC and organizations such as ITU and ISO shall be used where applicable. Note 2: Although the work of TC 57 is chiefly concerned with standards for electric power systems, these standards may also be useful for application by the relevant bodies to other geographical widespread processes. Note 3: Whereas standards related to measuring and protection relays and to the control and monitoring equipment used with these systems are treated by TC 95, TC 57 deals with the interface to the control systems and the transmission aspects for teleprotection systems. Whereas standards related to equipment for electrical measurement and load control are treated by TC 13, TC 57 deals with the interface of equipment for interconnection lines and industrial consumers and producers requiring energy management type interfaces to the control system.		

14	Working Groups directly under the Technical Committee
WG 3	Telecontrol protocols
WG 10	Power system IED communication and associated data models
WG 13	Software interfaces for operation and planning of the electric grid
WG 14	Enterprise business function interfaces for utility operations
WG 15	Data and communication security
WG 16	Deregulated energy market communications
WG 17	Power system intelligent electronic device communication and associated data models for microgrids, distributed energy resources and distribution automation
WG 18	Hydroelectric power plants - Communication for monitoring and control
WG 19	Interoperability within TC 57 in the long term
WG 20	Power Line Carrier Communication Systems
WG 21	Interfaces and protocol profiles relevant to systems connected to the electrical grid
AG 22	Advisory Group on strategic developments and technological, operational and organizational matters for TC 57
AG 23	Chair Advisory Group
JWG 24	IIoT and digital twin applications in power systems management linked to ISO/IEC JTC 1/SC 41

CENELEC	CLC/TC 57	Power systems management and associated information exchange	
	129 Standards	18 Projects	National delegates: 0
Scope (Extract)	To prepare international standards for power systems control equipment and systems including EMS (Energy Management Systems), SCADA (Supervisory Control And Data Acquisition), distribution automation, teleprotection, and associated information exchange for real-time and non-real-time information, used in the planning, operation and maintenance of power systems. Power systems management comprises control within control centres, substations and individual pieces of primary equipment including telecontrol and interfaces to equipment, systems and databases, which may be outside the scope of TC 57. The special conditions in a high voltage environment have to be taken into consideration. (...)		

IEC/TC 22	Power electronic systems and equipment		
	137 Standards	26 Projects	National delegates: 0
Scope	To prepare international standards regarding systems, equipment and their components for electronic power conversion and electronic power switching, including the means for their control, protection, monitoring and measurement. Note 1.- Components which are comprised within the scope include electronic devices. Note 2.- The scope does not include telecommunications apparatus other than power supplies to such apparatus. Group Safety Function: Power electronic converter systems and equipment for solar, wind, tidal, wave, fuel cell or similar energy sources.		
6	Working Groups directly under the Technical Committee		
WG 11	Application independent definitions		
MT 3	Maintenance Team for IEC 60146 series and 61148		
MT 8	Maintenance team for IEC/TS 62578		
MT 9	Maintenance team for IEC 62477-1		
AG CAG	Chairman's Advisory Group (CAG)		
JMT 10	Maintenance team for IEC 62477-2 linked to TC 99		
4	Sub-Committees		
SC 22E	Stabilized power supplies		
SC 22F	Power electronics for electrical transmission and distribution systems		
SC 22G	Adjustable speed electric power drive systems (PDS)		
SC 22H	Uninterruptible power systems (UPS)		

CLC/TC 22X	Power electronics		
	93 Standards	16 Projects	National delegates: 0
Scope	To prepare standards dealing with power electronics. The standards will deal with equipment, their component parts (especially electronic devices) and their extension to the system aspect. Standards for power converters interfacing general power systems to dedicated systems, for example railways, shall be dealt with jointly by TC 22X and relevant product committees. The following are excluded: - converters for rolling stock; - converters and charging equipment for electrical vehicles; - emitters for telecommunication; - dimmers for lighting.		
3	Working Groups directly under the Technical Committee		
WG 07	Power supplies		
WG 08	Management of New Approach Directives		
WG 09	Material Efficiency for Circular Economy		

1.3
INSTALLATION

ELECTRICITY

PLUMBING

HEATING

AIR CONDITIONING

• • •

1.3 Installation

1.3.1 Piping

ISO/TC 5	Ferrous metal pipes and metallic fittings		
63 Standards	8 Projects	National delegates: 0	
Scope	Standardization in the field of steel tubes, cast iron pipes, flexible metallic tubes and metallic fittings, flanges, pipe supports, pipe threads and gauges, metallic and organic coatings and protections. Excluded : - steel for tubes (ISO/TC 17); - aircraft pipes (ISO/TC 20); - tubes and equipment (other than flanges) pipe threads and gauging within the field of work of the petroleum and natural gas industries (ISO/TC 67); - connections for fluid power systems (ISO/TC 131).		
5	Sub-Committees		
SC 1	Steel tubes		
SC 2	Cast iron pipes, fittings and their joints		
SC 5	Threaded fittings, solder fittings, welding fittings, pipe threads, thread gauges		
SC 10	Metallic flanges and their joints		
SC 11	Metal hoses and expansion joints		

CEN/TC 342	Metal hoses, hose assemblies, bellows and expansion joints	
12 Standards	3 Projects	National delegates: 0
Scope	Standardization in the field of metal hoses, hose assemblies, bellows and expansion joints for general applications and for specific applications as required by the market, but avoiding overlap conflict with other functional CEN/TC's.	
3	Working Groups directly under the Technical Committee	
WG 1	Hose assemblies and fittings	
WG 2	Expansion joints	
WG 3	Hose assemblies for gas applications	

ISO/TC 138	Plastics pipes, fittings and valves for the transport of fluids	
357 Standards	40 Projects	National delegates: 0
Scope	Standardization of pipes, fittings, valves and auxiliary equipments intended for the transport of fluids and made from all types of plastic materials, including all types of reinforced plastics. Metal fittings used with plastics pipes are also included. This standardization includes - for pipes, flanges, fittings, valves and auxiliary equipments - dimensions and their tolerances; requirements for chemical, mechanical and physical properties and appropriate test methods; requirements and test methods for other properties relevant to particular applications; temperature and pressure ratings.	
1	Working Groups directly under the Technical Committee	
AG 0	Advisory group	
8	Sub-Committees	
SC 1	Plastics pipes and fittings for soil, waste and drainage (including land drainage)	
SC 2	Plastics pipes and fittings for water supplies	
SC 3	Plastics pipes and fittings for industrial applications	
SC 4	Plastics pipes and fittings for the supply of gaseous fuels	
SC 5	General properties of pipes, fittings and valves of plastic materials and their accessories - Test methods and basic specifications	
SC 6	Reinforced plastics pipes and fittings for all applications	
SC 7	Valves and auxiliary equipment of plastics materials	
SC 8	Rehabilitation of pipeline systems	

CEN/TC 155	Plastics piping systems and ducting systems		
	258 Standards	39 Projects	National delegates: 0
Scope	Standardization of requirements and test methods for geometrical, chemical, physical and other characteristics of components, joints and systems; - where "Function TC's" exist, standardization of the plastics related requirements and test methods for fitness for purpose of complete systems related to the application shall be done in liaison with these "Function TC's"; in such cases are excluded from the work of CEN/TC 155 those general requirements for fitness for purpose that are independent of the plastics materials; - where "Function TC's" exist, standardization of the plastics related aspects of Codes of Practice and commissioning rules for specified applications shall be done in liaison with these "Function TC's"... (see resolution BT 155/1989).		
18	Working Groups directly under the Technical Committee		
WG 1	Installation outside building structures of flexible piping systems and rainwater infiltration and storage/attenuation systems		
WG 12	Pressure systems of polyolefin material for gas supply, water supply and drainage and sewerage		
WG 13	Systems with structured-wall pipes for non-pressure drainage and sewerage - PE, PP, PVC-U		
WG 14	Systems of glass-reinforced thermosetting plastics for all applications - Polyester, epoxy and polyester resin based concrete		
WG 16	Systems for hot and cold water applications		
WG 17	Rehabilitation of pipeline systems		
WG 20	Thermoplastics ancillaries for soil and waste discharge and gravity buried drainage and sewerage systems		
WG 21	Internal CEN/TC 155 Guidance documents and templates for standards development		
WG 23	Thermoplastics systems for industrial applications		
WG 25	Recycling of PVC-U, PE and PP materials		
WG 26	Systems for storm water handling		
WG 27	Environmental aspects		
WG 28	Material assessment related to long term performance of non-pressure plastic piping systems		
WG 31	CPR and DWD		
WG 32	Valves		
WG 33	Thermoplastics piping systems for soil & waste discharge and non-pressure drainage and sewerage		
WG 34	Polyamid piping systems for gas supply		
WG 8	Systems for water supply and pressure drainage and sewerage - PVC (solid wall)		

CEN/TC 208	Elastomeric seals for joints in pipework and pipelines		
	21 Standards	0 Projects	National delegates: 0
Scope	Standardization of material requirements and test methods for elastomeric seals for joints and diaphragms used in systems for the conveyance of fluids, for example, cold and hot water, waste water, gas, hydrocarbons and other fluids.		
3	Working Groups directly under the Technical Committee		
WG 1	Elastomeric seals for hot and cold water and waste water		
WG 2	Elastomeric seals for gas, hydrocarbons and other fluids		
WG 4	Seals and diaphragms for gas appliances and gas equipment		

CEN/TC 218	Rubber and plastics hoses and hose assemblies	
71 Standards	15 Projects	National delegates: 0
Scope	Preparation of European standards for rubber and plastics hoses and hose assemblies for all applications, including methods of test, taking account of work already carried out by ISO, European trade associations and national standard bodies (with the exception of fire fighting hoses).	
3	Working Groups directly under the Technical Committee	
WG 1	Rubber and plastics hoses, couplings and hose assemblies for industrial, chemical and petrochemical applications	
WG 2	Rubber and plastics hoses and hose assemblies for hydraulic applications	
WG 4	Basic specifications and test methods for rubber and plastics hoses, hose assemblies and tubing	

CEN/TC 74	Flanges and their joints	
38 Standards	10 Projects	National delegates: 0
Scope	Standardization of flanges and their joints in pipelines and piping systems, for all applications excluding hydraulic and pneumatic load transmission. Definition of "nominal pressure" and "nominal size"; - flanges: dimensions and tolerances, selection of materials, technical conditions of delivery; - bolts, screws and nuts: selection of required bolts, screws and nuts, dimensions, technical conditions of delivery, materials; - gaskets: dimensions and tolerances, materials, technical conditions of delivery; - calculation method for flanges design; - determination of P/T ratings.	
5	Working Groups directly under the Technical Committee	
WG 2	Steel flanges	
WG 3	Cast iron flanges	
WG 8	Gaskets	
WG 9	Bolting	
WG 10	Calculation methods	

CEN/TC 267	Industrial piping and pipelines	
24 Standards	15 Projects	National delegates: 0
Scope	Standardization of rules constituting a design and manufacturing code comprising the choice of materials, design, fabrication, installation, inspection and testing of industrial piping and pipeline, including the choice of safety systems. The meaning of "industrial piping" is the following: Pipes or pipe networks located on the premises of an industrial site. The meaning of "pipelines" is the following: Pipes or pipe networks located outside premises of an industrial site. The following are excluded from the scope of CEN/TC 267: - Pipelines for waste water, and piping for waste water, the latter being directly evacuated via the sewer system outside of industrial premises and/or in the environment (dealt within CEN/TC 165); - Pipelines for gaseous fuels (that is to say any fuel that is in gaseous state at a temperature of 15°C and at a pressure of 1 bar (dealt with in CEN/TC 234); - Piping and pipelines for water for human consumption (dealt with in CEN/TC 164). - Pipelines for petroleum and natural gas industries (dealt with in CEN/TC 12).	
7	Working Groups directly under the Technical Committee	
WG 1	General	
WG 2	Metallic materials	
WG 3	Design and calculation	
WG 4	Manufacturing and installation	
WG 5	Inspection and testing	
WG 8	Maintenance of EN 13480 series	
WG 9	Aluminium and aluminium alloy piping	

1.3.2 Valves, Pumps & Compressors

ISO/TC 153	Valves		
	29 Standards	2 Projects	National delegates: 0
Scope	Standardization in the field of industrial valves, valve actuators including their attachments, and steam traps. The standardization to include parameters covering interchangeability, valve mating details for actuator mounting, testing, marking, quality requirements, terminology and other relevant parameters. Excluded : - safety and relief valves and other pressure relief devices which are the responsibility of ISO/TC 185; - production valves for wellhead equipment and valves for cross country pipelines for the petroleum and natural gas industries which are the responsibility of ISO/TC 67; - valves forming the final control element used for industrial process control systems which are the responsibility of IEC/TC 65; - valves having an envelope predominantly made of plastics which are the responsibility of ISO/TC 138; - valves for sanitary use; - solenoids.		
5	Working Groups directly under the Technical Committee		
AHG 1	Environmental requirements applicable to valves		
WG 1	Valve actuators and valve actuators attachments		
WG 5	Fugitive emissions		
WG 12	Isolating valves for low-temperature applications		
WG 15	Automatic steam traps		

CEN/TC 69	Industrial valves		
	84 Standards	9 Projects	National delegates: 1
Scope	The standardization of valves for all industrial applications and for all types of fluids, including : - steam traps; - valve actuator interface; - safety devices against excessive pressure (safety valves and bursting disks); - control valves (excluding the actuator element and their interface); but excluding: sanitary valves (as defined by CEN/TC 164/WG 8).		
6	Working Groups directly under the Technical Committee		
WG 1	Basic standards		
WG 4	Butterfly valves		
WG 10	Safety devices against excessive pressure		
WG 12	Valves for the process industry		
WG 15	Diaphragm valves		
WG 19	Valves for hydrogen applications and networks		

CEN/TC 197	Pumps		
	52 Standards	3 Projects	National delegates: 0
Scope	Standardization in the field of safety and all other aspects of pumps and pumping machinery for liquids including machines using pumps for their principal mode of action.		
6	Working Groups directly under the Technical Committee		
WG 1	Water pumps efficiency		
WG 2	Circulation pumps		
WG 3	Test Procedure for Packings for Rotary Applications		
WG 5	High-pressure water jet machines - Safety requirements		
WG 6	Vehicle cleaning appliances safety standard		
WG 7	Pumps and pump units for liquids		

	CEN/TC 232	Compressors, vacuum pumps and their systems	
	5 Standards	1 Projects	National delegates: 0
Scope	Standardization in the field of compressors and vacuum pumps, portable and stationary, for all compressible gases, and their systems. This work does not apply to sealed motor compressors used in refrigerating and heat pump systems in which the refrigerant is evaporated and condensed in a closed circuit. (Covered by CEN/TC 182).		

1.3.3 Cooling & Ventilation Systems

	ISO/TC 86	Refrigeration and air-conditioning	
	52 Standards	25 Projects	National delegates: 0
Scope	Standardization in the fields of refrigeration and air-conditioning, including terminology, mechanical safety, methods of testing and rating equipment, measurement of sound levels, refrigerant and refrigeration lubricant chemistry, with consideration given to environmental protection. The scope includes factory-assembled air-conditioners (cooling), heat pumps, dehumidifiers, refrigerants, and refrigerant reclaiming and recycling equipment as well as other devices, components and equipment such as humidifiers, ventilation equipment and automatic controls used in air-conditioning and refrigeration systems that are not covered by other ISO technical committees.		
5	Sub-Committees		
SC 1	Safety and environmental requirements for refrigerating systems		
SC 4	Testing and rating of refrigerant compressors		
SC 6	Testing and rating of air-conditioners and heat pumps		
SC 7	Testing and rating of commercial refrigerated display cabinets		
SC 8	Refrigerants and refrigeration lubricants		

	CEN/TC 44	Commercial and Professional Refrigerating Appliances and Systems, Performance and Energy Consumption	
	14 Standards	5 Projects	National delegates: 0
Scope	Standardization of Appliances and Systems for refrigeration for preparation, catering retail and wholesale of food and beverage related products such as: - refrigerated & frozen food display cabinets with or without incorporate condensing unit; - refrigerators & frozen food storage cabinets, Walk In Cold Room, ice maker and ice cream machines; - refrigeration systems composed of remote elements with respect to: - performance requirements and related test methods; - requirements and test methods for determination of energy consumption; Industrial scale production plants are excluded. Condensing Units and Chillers appliances are excluded. Safety and Environmental matters are excluded.		
6	Working Groups directly under the Technical Committee		
WG 1	Commercial refrigerated display cabinets		
WG 2	Service refrigerated cabinets and counters for use in commercial kitchens		
WG 4	Walk-in cold rooms		
WG 5	Refrigerated display cabinets for artisan and self made gelato		
WG 6	Commercial beverage coolers and ice cream freezers		
WG 7	Walk-in cold rooms packaged Refrigerating Units		

CEN/TC 182	Refrigerating systems, safety and environmental requirements		
20 Standards	11 Projects	National delegates: 0	
Scope	Standardization of requirements in the field of safety and environment for the design, construction, installation, testing, operation, maintenance, repair and disposal of refrigerating systems used for cooling and/or heating. Performance of Appliances and Systems for refrigeration for preparation, catering retail and wholesale of food and beverage related products are excluded. Standardization of requirements in the field of safety and environment for the design, construction, installation, testing, operation, maintenance, repair and disposal of refrigerating systems used for cooling and/or heating.		
6	Working Groups directly under the Technical Committee		
WG 2	Design and testing		
WG 4	Competence		
WG 6	Revision of EN 378		
WG 7	JWG CEN/TC 182/CEN/TC 54 Pressure vessels for refrigerating systems		
WG 9	Tightness of components		
WG 11	Revision of EN 14624		

CEN/TC 156	Ventilation for buildings		
88 Standards	28 Projects	National delegates: 0	
Scope	Standardization of terminology, testing and rating methods, dimensioning and fitness for purpose of natural and mechanical ventilation systems and components for buildings subject to human occupancy.		
17	Working Groups directly under the Technical Committee		
WG 1	Terminology		
WG 2	Natural and mechanical powered residential ventilation		
WG 3	Ductwork		
WG 4	Air terminal devices		
WG 5	Air handling units		
WG 8	Installation		
WG 9	Fire precautions for air distribution systems in buildings		
WG 14	Ventilation of commercial kitchens		
WG 16	Joint Working Group between CEN/TC 156 and CEN/TC 113 - Multifunctional balanced ventilation units for single family dwellings, including heat pumps		
WG 17	Fans		
WG 18	Ventilation in hospitals		
WG 20	Ventilation and Room-Conditioning Systems in non-Residential Buildings		
WG 21	Energy performance calculation of ventilation and cooling systems		
WG 23	Ventilation for Buildings - Inspection and checking		
WG 24	Chairman Advisory Group		
WG 25	Indoor Air Quality		
WG 26	c-PCR for ventilation components		

1.3.4 Heating Systems

CEN/TC 57	Central heating boilers		
14 Standards	5 Projects	National delegates: 0	
Scope	To establish European Standards with regard to constructional and performance requirements as well as efficiency tests for liquid and solid fuel-fired central heating boilers as well as boiler bodies of gas-fired central heating boilers to be equipped with a forced draught burner, oil fired air-heaters, heat storage units and hot water performance requirements (regarding efficiency) of storage tanks as part of a hot water storage system.		
7	Working Groups directly under the Technical Committee		
WG 1	Central heating boilers for solid fuels		
WG 2	Requirements for efficiency and emission and test methods for central heating boilers		
WG 4	Low pressure boilers		
WG 5	Heating boilers for fuel oil		
WG 6	Airborne noise emissions		
WG 8	Energy efficiency requirements for warm water storage tanks		
WG 9	Electrical power consumption for heat generators		

CEN/TC 58	Safety and control devices for burners and appliances burning gaseous or liquid fuels		
21 Standards	3 Projects	National delegates: 0	
Scope	Safety and control devices for equipment burning gaseous or liquid fuels, ranging from small domestic appliances to large industrial burners. Excluding the following: - mechanical controls other than gas controls - devices for transmission and distribution equipment		
5	Working Groups directly under the Technical Committee		
WG 11	Generics		
WG 12	Electronics		
WG 13	Mechanics		
WG 14	Sensors		
WG 15	Advisory Group 1 Hydrogen		

CEN/TC 109	Central heating boilers using gaseous fuels		
16 Standards	9 Projects	National delegates: 0	
Scope	All the gas-fired central heating boilers, including the boilers of the condensing type, with or without integrated domestic hot water production, of all types and all nominal inputs, i.e. : - the boilers fitted with atmospheric burners or premixed burners (fan-assisted or not), - the units composed of a boiler body and its fan-assisted burner, constituting an indissociable entity, - the assemblings of a boiler body (according to the requirements prescribed by the CEN/TC 57) and a fan-assisted burner (according to the requirements prescribed by the CEN/TC 131), but only for the specific characteristics suited to the utilisation of gaseous fuels.		
5	Working Groups directly under the Technical Committee		
WG 1	Domestic central heating boilers using gaseous fuels		
WG 3	Assembly of boiler bodies and forced draught burners		
WG 4	Hot water production of central heating boilers for domestic use		
WG 5	Steering Group ECOTEST		
WG 6	Material efficiency		

CEN/TC 269	Shell and water-tube boilers		
34 Standards	19 Projects	National delegates: 0	
Scope	Standardization of rules for the design, manufacture, materials, equipment and testing of shell boilers and water-tube boilers.		
2	Working Groups directly under the Technical Committee		
WG 1	Water-tube boilers		
WG 2	Shell boilers		

CEN/TC 295	Residential solid fuel burning appliances		
10 Standards	7 Projects	National delegates: 0	
Scope	Standardization in the field of residential heating and cooking appliances burning solid fuels: to include solid mineral fuel burning appliances, wood- burning appliances and multifuel appliances. The standardization to cover appliance construction, performance, (e.g. efficiency and emissions), safety and commissioning requirements, together with their associated test methods and installation and operating instructions. The standardization of test fuels and test methods for the assessment of the suitability of fuels for the various appliance types.		
6	Working Groups directly under the Technical Committee		
WG 1	Appliances fired by solid fuels		
WG 2	Appliances fired by pellets		
WG 3	Heat storage stoves (SHRA) and sauna stoves		
WG 4	Tiled Stoves		
WG 5	Measurement methods		
WG 6	CPR and Mandates		

CEN/TC 46	Fireplaces for liquid fuels		
4 Standards	4 Projects	National delegates: 0	
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.		
2	Working Groups directly under the Technical Committee		
WG 1	Oil stoves with vaporizing burners		
WG 2	Fireplaces for Ethanol/Gel		

CEN/TC 48	Domestic gas-fired water heaters		
2 Standards	2 Projects	National delegates: 0	
Scope	Preparation of European standards for domestic gas-fired water heaters, i.e. instantaneous water heaters and storage water heaters, excluding central heating boilers derived from these appliances and also excluding appliances combining these two preceding types.		
1	Working Groups directly under the Technical Committee		
WG 1	Revision of EN 26 and EN 89		

CEN/TC 62	Independent gas-fired space heaters		
	9 Standards	1 Projects	National delegates: 0
Scope	Preparation of standards for independent gas-fired space heaters and decorative fuel effect appliances, excluding dedicated LPG appliances.		
1	Working Groups directly under the Technical Committee		
WG 3	Chairman's Advisory Group		

CEN/TC 180	Decentralized gas heating		
	6 Standards	0 Projects	National delegates: 0
Scope	To prepare standards for: a) non-domestic, overhead, gas-fired radiant tube heaters; b) non-domestic, overhead, gas-fired radiant luminous heaters; c) domestic and non-domestic gas-fired air heaters intended for installation with or without air distribution ducts.		
3	Working Groups directly under the Technical Committee		
WG 1	Non domestic gas-fired overhead radiant tube and luminous heaters - Safety and Efficiency		
WG 2	Gas fired air heaters - Safety and Efficiency		
WG 3	Non-domestic gas fired overhead radiant strips and continuous radiant tube heaters - Safety and Efficiency		

CEN/TC 228	Heating systems and water based cooling systems in buildings		
	49 Standards	8 Projects	National delegates: 0
Scope	Standardisation of functional requirements for all types of heating systems, including domestic hot water production, water based cooling emission and distribution systems in buildings and power generation systems in the direct environment of the building. Furthermore standardisation in relation to energy performance of buildings. The work includes: - General performance requirements for heating systems, - General requirements for design of heating systems, water based cooling systems and power generation systems; - Requirements for installation and commissioning, including system tests on the heating and water based cooling system as a whole; - Requirements for preparation of instructions for operation, maintenance and use of heating and water based cooling systems; - Requirements for inspection of heating systems; - Methods for calculation of design heat loads, as basis for sizing of heating equipment; - Methods for calculation of energy use of heating systems, water based cooling systems and power generation systems in the direct environment of the building (e.g. wind power, thermo solar and photovoltaic), including energy economy and environmental impact, as basis for supporting energy performance criteria and/or energy certification of heating systems, water based cooling systems and power generation systems on building or building unit level; - Assessment of energy performance of district heating and cooling systems; - Co-operation with other CEN/TCs (such as CEN/TC 156) responsible for related systems and products in order to establish a common terminology and a common set of technical parameters that can be used for both product declaration and design information. The wind turbines handled by CEN/TC 228 are small plants as they may occur in domestic production and use of electricity in connection with buildings. The same applies to photovoltaic, CEN/TC 228 describes a process by which electrical energy, which is produced by building integrated or additive photovoltaic systems in the direct environment of the building, is determined. Not covered are: - requirements on products such as heating and cooling units, wind power units and photovoltaic units which are in the responsibility of dedicated Technical Committees (such as CEN/TC 57, CEN/TC 109, CEN/TC 113, CEN/TC 130, CEN/TC 182, CEN/TC 312 CLC/TC 82 and CLC/TC 88); - cooling generation systems (covered by CEN/TC 156); - calculation of cooling load (covered by CEN/TC 156).		
2	Working Groups directly under the Technical Committee		
WG 1	General performance requirements of heating systems and sub-systems in buildings		
WG 4	Calculation methods and system performance and evaluation		

CEN/TC 113	Heat pumps and air conditioning units	
17 Standards	7 Projects	National delegates: 0
Scope	Standardization of testing and requirements for the performance of factory assembled heat pumps, air conditioning units (ducted and non ducted), hydronic room fan coil units, and liquid chilling packages whether vapour compression or sorption, regardless of energy used, for domestic or commercial purposes excluding industrial processes and also excluding the rational use of gas energy which is within the scope of CEN/TC 299. Also the standardization of rating conditions, performance testing and the presentation of data of refrigerant compressors and condensing units.	
8	Working Groups directly under the Technical Committee	
WG 6	Refrigerant compressors - Presentation of performance data	
WG 7	Heat Pumps, air conditioners and chilling liquid packages - testing and rating at part load conditions	
WG 8	Rating and testing for performance	
WG 9	Sound rating of heat pumps, air conditioners and liquid chilling packages	
WG 10	Heat pumps for domestic hot water production and revision of EN 16147	
WG 11	Direct expansion-to-water units	
WG 14	Hydronic fan coil units	
WG 15	Roof-top units	

1.3.5 Gas

CEN/TC 236	Non industrial manually operated shut-off valves for gas and particular combinations valves-other products	
2 Standards	0 Projects	National delegates: 0
Scope	Standardization of the requirements for fitness for purpose (for design, performance, testing, marking, packing, instructions for installation and use) of manually operated shut-off valves for domestic and commercial not directly buried installations inside or outside of buildings, and other particular types of valves strictly combined to particular products or component considered as a whole (e.g. safety flexible metallic hose assemblies and connection valves for domestic gas appliances).	
1	Working Groups directly under the Technical Committee	
WG 1	Revision of existing standards	

CLC/TC 216	Gas detectors	
18 Standards	1 Projects	National delegates: 0
Scope	To standardize general and specific requirements for the construction, safety, performance and testing for electrical apparatus for sensing the presence of gas or vapour and for providing an indication, alarm and/or other output function, the purpose of which is to give a warning of explosion hazard, fire hazard or health hazard. The standardization work of TC 216 concerns domestic gas detectors and those industrial and commercial gas detectors that are not included in the scope of CLC/SC 31-9. To provide information and guidance, as appropriate, on the selection, installation and operation of such apparatus.	
4	Working Groups directly under the Technical Committee	
WG 05	Detectors in car parks and tunnels	
WG 13	Revision of EN 50379-2	
WG 14	Specification for portable electrical apparatus designed to measure draught & gas pressures of heating appliances and systems	
WG 15	Working group for the revision of EN 50194-1	

1.3.6 Chimneys

CEN/TC 166	Chimneys	
35 Standards	8 Projects	National delegates: 0
Scope	Standardization in the field of chimneys and vents used for conveying the products of combustion from appliances to outside atmosphere and the connecting pieces and ancillaries needed for their construction and operation. Structurally independent chimneys are excluded.	
4	Working Groups directly under the Technical Committee	
WG 1	General requirements	
WG 2	Thermal and fluid dynamic calculation methods for chimneys	
WG 4	Chimneys and their components with inner linings of plastic	
WG 6	Clay/Ceramic and Concrete chimneys and components	
1	Sub-Committees	
SC 2	Chimneys and their components with inner linings of metal	

CEN/TC 297	Free-standing industrial chimneys	
10 Standards	3 Projects	National delegates: 0
Scope	Standardization in the field of free-standing chimneys for industrial and utility applications including terminology, performance requirements, safety aspects, design as far as not covered by the Eurocodes, construction and maintenance of the shell, lining and accessories. A chimney may also be considered as free-standing, if it is guyed or supported or if it stands on another structure. All flue gas ducts to the chimney are outside the scope. Note: "Utility applications" can include schools, hospitals, assembly rooms, theatres, swimming pools, prisons etc.	

1.3.7 Domestic Appliances for Water

CEN/TC 402	Domestic Pools and Spas	
9 Standards	0 Projects	National delegates: 0
Scope	Standardization in the field of domestic swimming pools, spas and other types of pools and their related materials, equipment and accessories, used for domestic/private purposes.	
5	Working Groups directly under the Technical Committee	
WG 1	Pool structure - design, product and installation	
WG 2	Pool water circulation, filtration and treatment	
WG 3	Mini pools	
WG 4	Domestic spas and hot tubs	
WG 5	Domestic pools - Environmental impacts	

CEN/TC 426	Domestic appliances used for water treatment not connected to water supply	
1 Standards	1 Projects	National delegates: 0
Scope	Standardization of requirements for safety, performance and labelling of water treatment like filtration, sparkling etc. appliances used in domestic and similar environment for which the intended use is the treatment of drinking water only. This Project Committee covers safety requirements and test methods for water treatment devices that are not connected to water supply in buildings and provides requirements and recommendations for instruction manuals, so that these appliances can be used and maintained properly. Appliances with heating water systems are excluded from the scope of this Project Committee.	

1.3.8 Sanitary Appliances

	CEN/TC 163	Sanitary appliances	
	32 Standards	2 Projects	National delegates: 0
Scope	To establish standards for the performance requirements and the corresponding test methods for all sanitary appliances to ensure that the appliance, irrespective of the material of which they are made, will give satisfactory performances. To establish physical and hygiene characteristics, to establish standards on connecting dimensions and to establish tests on the material used in manufacturing sanitary appliances. This Committee is responsible for traps where they are an integral part of the appliances.		
2	Working Groups directly under the Technical Committee		
WG 3	Closet bowls, flushing cisterns, urinals, bidets and kitchen sinks		
WG 4	Baths (W/Pools) - Shower trays (Performance testing)		

1.3.9 Fire Safety

	ISO/TC 92	Fire safety	
	162 Standards	26 Projects	National delegates: 1
Scope	Standardization of the methods of assessing - fire hazards and fire risk to life and to property; - the contribution of design, materials, building materials, products and components to fire safety and methods of mitigating the fire hazards and fire risks by determining the performance and behaviour of these materials, products and components, as well as of buildings and structures. Excluded: - materials and equipments already covered by other technical committees; - fields covered by other ISO and IEC committees.		
6	Working Groups directly under the Technical Committee		
CAG 1	Technical programme management group (TPMG)		
TG 2	Fire fighters		
WG 8	Fire terms and definitions		
WG 13	Fire safety – Statistical data collection		
WG 14	Large outdoor fires and the built environment		
WG 15	Fire safety for tunnels		
4	Sub-Committees		
SC 1	Fire initiation and growth		
SC 2	Fire containment		
SC 3	Fire threat to people and environment		
SC 4	Fire safety engineering		

	CEN/CLC/JTC 4	Services for fire safety and security systems	
	2 Standards	0 Projects	National delegates: 0
Scope	The Technical Committee should develop standards for services for fire safety and security systems. The standards specify the requirements for quality of services supplied by companies and the competencies of their involved staff charged with the planning and design, engineering, installation and hand over, maintenance and repair of fire safety and/or security systems*. * Examples of fire safety and/or security systems, are fire detection-, fire extinguishing -, voice alarm-, intruder alarm-, hold up-, access control , social alarm-, smoke and heat exhaust ventilation-, CCTV systems, control equipment for escape and evacuation route, and combination of such systems as mentioned before.		
1	Working Groups directly under the Technical Committee		
WG 1	Remote Services for fire safety and security systems		

ISO/TC 21	Equipment for fire protection and fire fighting		
94 Standards	11 Projects	National delegates: 2	
Scope	Standardization in the field of all fire protection and fire fighting apparatus and equipment including extinguishing media as well as the personal equipment of the fire fighter, and related work on terminology, classification and symbols. Approval of advisory documents relating to the general principles and application of equipment and apparatus for fire protection and fire fighting. Excluded: protective clothing dealt with by ISO/TC 94.		
6	Sub-Committees		
SC 2	Manually transportable fire extinguishers		
SC 3	Fire detection and alarm systems		
SC 5	Fixed firefighting systems using water		
SC 6	Foam and powder media and firefighting systems using foam and powder		
SC 8	Gaseous media and firefighting systems using gas		
SC 11	Smoke and heat control systems and components		

CEN/TC 127	Fire safety in buildings		
92 Standards	44 Projects	National delegates: 1	
Scope	1) To develop standards utilizing relevant existing work where available e.g. in ISO, IEC, CENELEC, CEC and EFTA assessing the fire behaviour of building products, components and elements of construction, 2) To develop standards for classification of products, components and elements of construction, appropriate to the fire risks related to their application, 3) To develop standards for assessing fire hazard and for providing fire safety in buildings.		
8	Working Groups directly under the Technical Committee		
WG 1	Structural and separating elements		
WG 2	Services		
WG 3	Fire Doors		
WG 4	Reaction to fire		
WG 5	Roofs		
WG 7	Classification		
WG 8	Fire Safety Engineering		
WG 9	Fire protective products		

CEN/TC 72	Fire detection and fire alarm systems		
41 Standards	18 Projects	National delegates: 0	
Scope	To prepare standards, harmonised where necessary to meet the essential requirement 'Safety in case of fire' of the Construction Products Directive, in the field of fire detection and fire alarm systems in and around buildings, covering test methods, requirements and recommendations for: - components; - the combination of components into systems; - the planning, design and installation of systems for use in and around buildings; - usage, maintenance and servicing; - the connections to and control of other fire protection systems; - the combination with other systems to form integrated systems; - the combination with fixed firefighting systems; - the contribution of fire detection and fire alarm systems to fire safety engineering.		
21	Working Groups directly under the Technical Committee		
WG 2	Environmental tests		
WG 3	Fire alarm devices		

WG 4	Flame detectors
WG 5	Point heat and smoke detectors and short-circuit isolators
WG 6	Manual call points
WG 7	Control and indicating equipment
WG 8	Power supply equipment
WG 9	System requirements
WG 10	Optical beam smoke detectors
WG 11	Guidelines for planning, design and installation
WG 12	Multi-sensor detectors
WG 14	Smoke Alarm devices
WG 15	Routing devices
WG 16	Aspirating smoke detectors
WG 17	Input/output devices
WG 18	Line-type heat detectors
WG 19	Components using Radio links
WG 20	CO detectors
WG 21	Duct smoke detectors
WG 22	Revision of EN 54-1
WG 23	Voice alarm components and installation

CEN/TC 191	Fixed firefighting systems	
94 Standards	39 Projects	National delegates: 4
Scope	Standardization in the field of: - components for fixed firefighting systems; - the design, construction and maintenance of fixed firefighting systems primarily for installation in buildings and other construction works with recommendations for other possible applications; - components for fixed smoke and heat ventilation systems; - the design, construction and maintenance of fixed smoke and heat ventilation systems for installation in buildings; - fire extinguishing media for use in fixed systems and other firefighting equipment.	
7	Working Groups directly under the Technical Committee	
WG 2	Foam extinguishing systems	
WG 3	Fire extinguishing media - Foam	
WG 4	Powder extinguishing systems	
WG 5	Sprinkler systems	
WG 6	Gas extinguishing Systems and components	
WG 10	Water mist systems	
WG 12	Mandate	
1	Sub-Committees	
SC 1	Smoke and heat control systems and components	

1.3.10 Building Management Systems

IEC	IEC/TC 72	Automatic electrical controls	
	37 Standards	5 Projects	National delegates: 0
Scope	To prepare standards related to inherent safety, to the operating characteristics where such are associated with applicational safety, and to the testing of automatic electrical control devices used in appliances and other apparatus, electrical and non-electrical, for household and similar purposes, but also extended to industrial purposes when no dedicated product standards exist, such as that for central heating, air conditioning, process heating building automation, etc., including the following: 1. Automatic electrical control devices, mechanically, electromechanically, electrically or electronically operated, responsive to or controlling parameters such as temperature, pressure, passage of time, humidity, light, electrostatic effect, flow or liquid level. 2. Automatic electrical control devices serving the starting of small motors that are used principally in appliances and apparatus for household and similar purposes. Such control devices may be built into or be separate from the motor. 3. Non-automatic control devices when such are associated with automatic control devices.		
13	Working Groups directly under the Technical Committee		
WG 1	Burner controls and maintenance of 60730-2-5		
WG 3	Motor protectors and maintenance of 60730-2-3, 60730-2-10 and 60730-2-22		
WG 5	Timers and maintenance of 60730-2-7		
WG 6	Temperature and pressure sensing controls and maintenance of 60730-2-6, 60730-2-9, 60730-2-11, 60730-2-12, 60730-2-13, 60730-2-15		
WG 8	General requirements for automatic electrical controls and maintenance of 60730-1		
WG 9	Electric actuators and valves		
WG 12	Electrical sensors		
WG 13	Expanded use of intelligence in products, and the linking of products by information technology & wireless solutions (“internet of things” (IoT))		
AG 1	Part 1 Restructure Advisory Group		
AG 2	Chair Advisory Group (CAG)		
EG 1	Editing Group		
PT 60730	PT for Automatic electrical controls-Part 2-24: Particular requirements for displacement sensing controls		
JAG 14	TC 23 – TC 72 linked to TC 23		

CENELEC	CLC/TC 72	Automatic electrical controls	
	50 Standards	6 Projects	National delegates: 0
Scope	To prepare harmonized standards for rules related to inherent safety, to the operating characteristics where such are associated with applicational safety and to the testing of automatic electrical control devices used in appliances and other apparatus, electrical and non-electrical for household and similar purposes such as those for central heating, air conditioning etc. including the following: 1. Automatic electrical control devices mechanically, electro-mechanically, electrically or electronically operated responsive to or controlling such parameters as temperature, pressure, passage of time, humidity, light, electrostatic effect, flow or liquid level. 2. Automatic electrical control devices serving the starting of small motors that are used principally in appliances and apparatus for household and similar purposes. Such control devices may be built into or be separate from the motor. 3. Non-automatic control devices when such are associated with automatic control devices.		
2	Working Groups directly under the Technical Committee		
WG 03	Updating EN 60730 series for the emc directive		
WG 04	Editing Committee		

CEN/TC 247	Building Automation, Controls and Building Management	
31 Standards	6 Projects	National delegates: 0
Scope	Standardisation of building automation, controls and building management systems and services for residential and non-residential buildings. These standards include the definitions, requirements, functionality and test methods of building automation products and systems for automatic control of building services installations. The primary integration measures include application interfaces, systems and services to ensure an efficient technical building management in cooperation with commercial and infrastructural building management. Excluded from this scope are areas of building automation which are under the responsibility of other CEN/CENELEC TC's.	
2	Working Groups directly under the Technical Committee	
WG 4	Open System Data Transmission	
WG 6	Electronic control equipment for HVAC applications, integrated room automation, controls and management systems	

IEC/TC 79	Alarm and electronic security systems	
44 Standards	7 Projects	National delegates: 0
Scope	To prepare international standards for the protection of buildings, persons, areas and properties against fraudulent actions having the purpose to enter in a place or to take or to use something without permission and other threat related to persons. The scope includes, but is not limited to equipment and systems, either used by ordinary persons or by trained people in the following residential and non-residential applications: - Access control systems; - Alarm transmission systems; - Video surveillance systems; - Combined and/or integrated systems even including fire alarm systems*; - Fire detection and fire alarm systems*; - Intruder and hold-up alarm systems; - Remote receiving and/or surveillance centres; - Social alarm systems. These systems can be used for providing a local or remote alarm; they can be used for calling private guards, social assistance, fire brigade or police force. They can be used for recording and transmission of dated or undated information, sounds, pictures of places and people for surveillance purposes. The standards cover: - terminology; - technical characteristics regarding performance criteria, reliable operation, installation, maintenance; - testing for detection, monitoring, recording, triggering an alarm and transmission to a remote centre including procedures and protocols for communication. Electrical safety, environmental conditions and behaviour of alarm systems regarding electromagnetic compatibility are also considered with reference to the appropriate standards (e.g. Guide ISO/IEC 51). * ISO/TC 21/SC 3 is in charge of the production of standards for "Fire detection and alarm systems".	
5	Working Groups directly under the Technical Committee	
WG 11	Electronic access control systems	
WG 12	Video Surveillance Systems (VSS) (formerly called CCTV)	
WG 13	General requirements for building intercom systems	
PT 62692	Digital door lock system	
ahG 14	Interoperability	

CENELEC	CLC/TC 79	Alarm systems	
	102 Standards	10 Projects	National delegates: 0
Scope	To prepare harmonized standards for detection, alarm and monitoring systems for protection of persons and property, and for elements used in these systems. The scope includes in particular intruder and hold-up alarm systems, access control systems, periphery protection systems, combined alarm - fire alarm systems, social alarm systems, CCTV-systems, other monitoring and surveillance systems related to security applications, as well as associated and dedicated transmission and communication systems. The standards shall specify conformity tests.		
17	Working Groups directly under the Technical Committee		
WG 01	Intruder & hold-up alarm systems		
WG 02	Detection devices for intruder alarm systems		
WG 03	Control & indicating equipment, power supply for intruder alarm systems		
WG 04	Social alarm systems		
WG 05	Alarm transmission systems (annunciation equipment)		
WG 06	Warning devices (audible & visual) for intruder & hold-up alarm systems		
WG 07	Cctv surveillance systems for security applications		
WG 09	Environmental testing		
WG 10	Obscuration Security Devices		
WG 11	Alarm systems local interconnections		
WG 14	Monitoring and alarm receiving centre requirements		
WG 15	Audio and video door entry apparatus		
WG 16	Emergency and danger response systems		
WG 17	Cyber Security for Connected Alarm Systems		
WG 18	Domestic Hazard Warning Systems		
WG AHG HWS	Ad-Hoc Group - Hazard Warning Systems		
WG CAG	Chairmans Advisory Group		

1.3.11 Lifts, Escalators and Moving Walks

ISO	ISO/TC 178	Lifts, escalators and moving walks	
	43 Standards	15 Projects	National delegates: 0
Scope	Standardization of all aspects, including safety, of lifts, service lifts, escalators, passenger conveyors and similar apparatus. Excluded: continuous mechanical handling equipment and lifts in mines.		
10	Working Groups directly under the Technical Committee		
WG 1	Lifts on ships		
WG 4	Safety requirements and risk assessment		
WG 5	Escalators and moving walks		
WG 6	Lift installation		
WG 8	Electrical requirements		
WG 9	Measurement of lift and escalator ride quality		
WG 10	Energy efficiency		
WG 11	Methodology for the improvement of safety of existing passenger and goods passenger lifts		
WG 12	Cybersecurity		
WG 13	New technologies		

CEN/TC 10	Lifts, escalators and moving walks	
42 Standards	20 Projects	National delegates: 0

Scope	Establishment of safety rules for the construction and installation: - of lifts and service lifts; - of escalators and passenger conveyors.
11	Working Groups directly under the Technical Committee
WG 1	Lifts and service lifts
WG 2	Escalators and moving walks
WG 4	Data logging and remote control
WG 6	Fire related issues
WG 7	Accessibility to lifts for persons including persons with disability
WG 8	Stairlifts and vertical platforms for the disabled
WG 9	Inclined lifts
WG 10	Improvement of safety of existing lifts
WG 11	Lifting appliances for wind turbines
WG 12	Lifting tables
WG 13	Vertical lifting appliance with enclosed carrier
1	Sub-Committees
SC 1	Building hoists

1.3.12 Lighting

ISO/CIE	International Commission on Illumination	
13 Standards	4 Projects	National delegates: 0

Scope	The International Commission on Illumination (abbreviated as CIE from its French title) is an organization devoted to international cooperation and exchange of information among its member countries on all matters relating to the science and art of lighting. The objectives of the CIE are: - to provide an international forum for the discussion of all matters relating to science, technology and art in the fields of light and lighting and for the interchange of information in these fields between countries; - to develop basic standards and procedures of metrology in the fields of light and lighting; - to provide guidance on the application of principles and procedures in the development of international and national standards in the fields of light and lighting; - to prepare and publish standards, reports and other publications concerned with all matters relating to science, technology and art in the fields of light and lighting; - to maintain liaison and technical interaction with other international organizations concerned with matters related to science, technology, standardization and art in the fields of light and lighting. Within these objectives, light and lighting embrace such fundamental subjects as vision, photometry and colorimetry, involving natura1 and man-made radiations in the ultraviolet, visible and infrared regions of the spectrum, and also applications covering all uses of light, indoors and out, including environmental and aesthetic effects, as well as means for the production and control of light and radiation. Standards produced by the CIE are a concise documentation of data defining aspects of light and lighting for which international harmony requires a unique definition. CIE Standards are therefore a primaty source of internationally accepted and agreed data, which can be taken, essentially unaltered, into universal standard systems. For the development of some standards in the field of light and lighting, ISO has established a working relationship with the International Commission on Illumination, which has been recognized by the ISO Council as an international standardizing body. Further information about the CIE can be found on the CIE Web site.

ISO/TC 274	Light and lighting	
12 Standards	2 Projects	National delegates: 0
Scope	Standardization in the field of application of lighting in specific cases complementary to the work items of the International Commission on Illumination (CIE) and the coordination of drafts from the CIE, in accordance with the Council Resolution 42/1999 and Council Resolution 10/1989 concerning vision, photometry and colorimetry, involving natural and man-made radiation over the UV, the visible and the IR regions of the spectrum, and application subjects covering all usage of light, indoors and outdoors, energy performance, including environmental, non-visual biological and health effects and lighting related information modelling systems.	
5	Working Groups directly under the Technical Committee	
CAG	Chair advisory group	
JAG	Joint Advisory Group (ISO/TC274 – CIE)	
JWG 1	Energy performance of lighting in buildings (joint working group with CIE-JTC 6)	
JWG 5	Lighting for work places (joint working group with CIE-JTC 15)	
WG 2	Commissioning process of lighting systems	

CEN/TC 169	Light and lighting	
30 Standards	12 Projects	National delegates: 0
Scope	CEN/TC 169 is responsible for standards in the field of vision, photometry and colorimetry, involving natural and man-made optical radiation over the UV, the visible and the IR regions of the spectrum, and application subjects covering all usages of light, indoors and outdoors, including environmental, energy and sustainability requirements and aesthetics and nonimage forming biological aspects as well as lighting related information modelling systems.	
12	Working Groups directly under the Technical Committee	
WG 1	Basic terms and criteria	
WG 2	Lighting of work places	
WG 3	Emergency lighting in buildings	
WG 4	Sports lighting	
WG 6	Tunnel lighting	
WG 7	Photometry	
WG 8	Photobiology	
WG 9	Energy performance of buildings	
WG 11	Daylight	
WG 12	Joint Working Group with CEN/TC 226 - Road lighting	
WG 13	Non-visual effects of light on human beings	
WG 15	Assessment and control of obtrusive light in outdoor spaces	

IEC/TC 34	Lighting	
612 Standards	51 Projects	National delegates: 0
Scope	To prepare, review and maintain international standards and related IEC deliverables regarding safety, performance and compatibility specifications for: - Electric light sources and components thereof; - Caps and holders; - Controlgear and control devices for electric light sources, and electronic lighting equipment; - Luminaires; - Lighting systems; - Miscellaneous equipment related to items (a), (b), (c), (d) and (e) Compatibility specifications may include requirements necessary for coexistence, interoperability and interchangeability between components in a lighting system. It is recognized that the border of TC 34 product responsibility, the interfaces and protocols to other products, and committees internal and external to IEC may need to be specified.	

	For lighting systems within building premises, TC 34 is responsible for light sources, luminaires, control gear, dedicated protocols, and certain aspects of dedicated networks. Details of the work on control devices and lighting systems are currently under consideration in SEG 9/WG 5 "Advisory group on lighting systems". For the purpose of the scope, the terms and definitions according to IEC 60050-845:2020 apply. Terms not provided there but included in TC/SC 34 standards are available in the IEC Glossary.
14	Working Groups directly under the Technical Committee
WG 5	EMX
WG 7	Insulation Co-ordination
WG 11	Control Interface
WG 14	Lighting Systems
WG 19	Horticultural lighting
WG 23	UV radiation for germicidal purposes
WG 24	Environmental aspects for lighting products and systems
MT 2	Terminology
JWG 21	Photobiological safety of light sources and luminaires emitting visible light linked to TC 76
AG 1	Chair's Advisory Group
AG 4	Lighting Systems
AG 13	IEC adoption of Zhaga publications
AG 20	Environmental Aspects
AG 22	Flammability test requirements
4	Sub-Committees
SC 34A	Electric light sources
SC 34B	Lamp caps and holders
SC 34C	Auxiliaries for lamps
SC 34D	Luminaires

CENELEC	CLC/TC 34		Lighting
	495 Standards	50 Projects	National delegates: 0
Scope	To prepare European standards based on concluded International Standards in the field of: - electrical light sources including lamps, - lamp caps and holders, - lamp control gear, - luminaires. To ensure that any deviation from the IEC standards, such as common modifications, special national conditions and A-deviations, is only in response to a clear and justifiable European need, such as European mandates and European and national legislative needs. To coordinate the work with other standardisation organisations at European level, taking responsibility for applicable mandates from the European Commission and developing European standards only when necessary. To coordinate with IEC/TC 34 and its subcommittees to encourage the inclusion of European requirements in IEC standards within the responsibility of IEC/TC 34 and its subcommittees in order to avoid Common Modifications when adopted by CENELEC.		
1	Working Groups directly under the Technical Committee		
WG 01	to revise EN 50172:2004		

CEN/TC 50	Lighting columns and spigots		
	10 Standards	2 Projects	National delegates: 0
Scope	Harmonisation of existing standards in the field of lighting poles up to 20 m for pedestrian, roads and open space applications. In addition to luminaries, lighting columns could support minor attachments like cameras, flowers boxes, small signs etc. Flags and cables are excluded.		
3	Working Groups directly under the Technical Committee		
WG 4	Revision of standards on design and verification		
WG 5	Revision of product standards		
WG 6	Installation, operation and maintenance of lighting columns and spigots		

IEC/TC 97	Electrical installations for lighting and beaconing of aerodromes		
	9 Standards	2 Projects	National delegates: 0
Scope	To prepare international standards for design, installation, verification and maintenance of aeronautical ground lighting of aerodromes. The activity covers requirements which apply to the whole system from the incoming power to the aerodrome up to and including the luminaires used in aeronautical ground lighting. The activity will not cover: - electrical installations already standardized by TC 64; - luminaires not used as aeronautical ground lights standardized by TC 34; - special cables for the constant current series circuit standardized by TC 20. Note: Operational requirements for aeronautical ground lights are specified in Annex 14 to the Convention on International Civil Aviation.		
8	Working Groups directly under the Technical Committee		
PT 61820	Electrical installation for the lighting and beaconing of aerodromes- Constant current series circuits for aeronautical ground lighting- System design and installation requirements		
PT 61820-9-2	Electrical installation for lighting and beaconing of aerodromes – Mobile photometric in-field measurement of precision approach and runway light fixtures		
MT 1	Maintenance of IEC 61822: Electrical installations for lighting and beaconing of aerodromes - Constant current regulators		
MT 2	Maintenance of IEC 61823: Electrical installations for lighting and beaconing of aerodromes - AGL series transformers		
MT 3	Maintenance of IEC 62870: Electrical installations for lighting and beaconing of aerodromes - Safety secondary circuits in series circuits - General safety requirements		
AG 7	Chair Advisory Group		
ahG 5	General requirements for maintenance		
ahG 6	Requirements for inset and elevated luminaires		

CLC/SR 97	Electrical installations for lighting and beaconing of aerodromes		
	10 Standards	3 Projects	National delegates: 0

1.3.13 Solar Energy

ISO/TC 180	Solar energy		
	21 Standards	4 Projects	National delegates: 0
Scope	Standardization in the field of solar energy utilization in space and water heating, cooling, industrial process heating and air conditioning. This includes developing standards on the instrumentation and procedures used for measuring solar energy and solar measurement.		
3	Working Groups directly under the Technical Committee		
AHG 1	Measurement of CO2		
WG 3	Collector components and materials		
WG 4	Solar collectors		
2	Sub-Committees		
SC 1	Climate - Measurement and data		
SC 4	Systems - Thermal performance, reliability and durability		

IEC/TC 82	Solar photovoltaic energy systems		
	200 Standards	66 Projects	National delegates: 0
Scope	To prepare international standards for systems of photovoltaic conversion of solar energy into electrical energy and for all the elements in the entire photovoltaic energy system. In this context, the concept "photovoltaic energy system" includes the entire field from light input to a photovoltaic cell to and including the interface with the electrical system(s) to which energy is supplied. NOTE: It is recognized that there is some common interest between TC 47 and TC 82, therefore these two Committees shall maintain liaison.		
11	Working Groups directly under the Technical Committee		
WG 1	Glossary		
WG 2	Modules, non-concentrating		
WG 3	Systems		
WG 6	Balance-of-system components		
WG 7	Concentrator modules		
WG 8	Photovoltaic (PV) cells		
WG 9	BOS Components – Support Structures		
PT 600	Vehicle Integrated Photovoltaic Systems		
JWG 1	Renewable energy off grid systems, including access to electricity, rural electrification and hybrid systems linked to TC 88		
JWG 11	Building-Integrated Photovoltaics (BIPV) linked to ISO/TC 160/SC 1		
AG 12	Chair's Advisory Group (CAG)		

CLC/TC 82	Solar photovoltaic energy systems		
	111 Standards	41 Projects	National delegates: 0
Scope	To prepare European Standards for systems of and components for photovoltaic conversion of solar energy into electrical energy and for all elements in the entire photovoltaic energy system. The standards will deal with EMC, Machine, CPD and LVD directives. The CLC/TC 82 will especially develop standards in areas where there are special European concerns. The CLC/TC 82 will cooperate closely with IEC/TC 82 and the National Committees. The aim will be to support the accelerated market introduction by harmonization of standards.		
2	Working Groups directly under the Technical Committee		
WG 01	Wafers, cells and modules		
WG 02	Bos components and systems		

CEN/TC 312	Thermal solar systems and components	
14 Standards	2 Projects	National delegates: 0
Scope	Preparation of European Standards to cover terminology, general requirements, characteristics, test methods, conformity evaluation and labelling of thermal solar systems and components.	
2	Working Groups directly under the Technical Committee	
WG 1	Solar collectors	
WG 3	Custom built systems	

IEC/TC 117	Solar thermal electric plants	
10 Standards	10 Projects	National delegates: 0
Scope	To prepare international standards for systems of Solar Thermal Electric (STE) plants for the conversion of solar thermal energy into electrical energy and for all the elements (including all sub-systems and components) in the entire STE energy system. The standards would cover all of the current different types of systems in the STE field, as follows: - Parabolic trough; - Solar tower; - Linear Fresnel; - Dish; - Thermal storage. The standards would define terminology, design and installation requirements, performance measurement techniques and test methods, safety requirements, "power quality" issues for each of the above systems. The standards would also address issues of connectivity and interoperability with the power grid related to connections, bi-directional communicates and centralized control (Smart Grid) and environmental aspects.	
15	Working Groups directly under the Technical Committee	
PT 62862-1-4	Solar thermal electric plants - Part 1-4: Thermal insulation for solar thermal electric plants	
PT 62862-1-5	Performance code test for solar thermal electric plants	
PT 62862-1-6	Solar thermal electric plants - Part 1-6: Silicone-based heat transfer fluids for the use in line focusing CSP applications	
PT 62862-2-2	Solar thermal electric plants - Part 2-2: Thermal energy storage systems - Technical requirements for molten salt used as heat storage and heat transfer medium	
PT 62862-3-1	Solar thermal electric plants - Part 3-1: General requirements for the design of parabolic trough solar thermal electric plants	
PT 62862-3-4	Solar thermal electric plants - Part 3-4: Code of solar field performance test for parabolic trough solar thermal power plant	
PT 62862-3-5	Laboratory reflectance measurement of concentrating solar thermal reflectors	
PT 62862-3-6	Accelerated aging tests of silvered-glass reflectors for concentrating solar technologies	
PT 62862-4-1	Solar thermal electric plants - Part 4-1: General requirements for the design of solar tower plants	
PT 62862-4-2	Heliostat field control system	
PT 62862-4-3	Solar thermal electric plants - Part 4-3: Technical requirements and design qualification of heliostats for solar power tower plants	
PT 62862-5-2	Solar thermal electric plants - Part 5-2: Linear Fresnel systems - General requirements and test methods for linear Fresnel collectors	
MT 1	Terminology	
MT 5	Revision of IEC TS 62862-1-2:2017 ED1 and IEC TS 62862-1-3:2017 ED1	
EG 4	Editing Committee	

CENELEC	CLC/SR 117	Solar thermal electric plants	
	1 Standards	1 Projects	National delegates: 0

1.3.14 Wind Energy

IEC	IEC/TC 88	Wind energy generation systems	
	52 Standards	27 Projects	National delegates: 0

Scope	Standardization in the field of wind energy generation systems including wind turbines, wind power plants onshore and offshore and interaction with the electrical system(s) to which energy is supplied. These standards address site suitability and resource assessment, design requirements, engineering integrity, modeling requirements, measurement techniques, test procedures, operation and maintenance. Their purpose is to provide a basis for design, quality assurance and technical aspects for certification. The standards address site-specific conditions, all systems and subsystems of wind turbines and wind power plants, such as mechanical, and electrical systems, support structures, control and protection as well as communication systems for monitoring, centralized and distributed control and evaluation, implementation of grid connection requirements for wind power plants, and environmental aspects of wind power development. The TC 88 standards will be developed based on and in agreement with appropriate IEC/ISO standards.

35	Working Groups directly under the Technical Committee
WG 3	Design requirements for offshore wind turbines
WG 15	Assessment of wind resource, energy yield and site suitability input conditions for wind power plants
WG 21	Measurement and assessment of power quality characteristics of grid connected wind turbines
WG 26	Availability and reliability for wind turbines and wind turbine plants
WG 27	Wind turbines - Electrical simulation models for wind power generation
PT 61400-8	Wind energy generation systems - Part 8: Design of wind turbine structural components
PT 61400-9	Wind energy generation systems - Part 9: Probabilistic design measures for wind turbines
PT 61400-11-2	Wind energy generation systems - Part 11-2: Measurement of wind turbine noise characteristics in receptor position
PT 61400-16	Standard file format for sharing power curve information
PT 61400-28	Wind energy generation systems - Part 28: Through life management and life extension of wind power assets
PT 61400-28-2	Decommissioning and preparation for recycling
PT 61400-29	Marking and lighting of wind turbines
PT 61400-30	Wind turbines – Part 30: Safety of Wind Turbine Generator Systems (WTGs) - General principles for design
PT 61400-31	Wind energy generation systems - Part 31: Siting Risk Assessment
PT 61400-32	Operations and maintenance of blades
PT 61400-40	Electromagnetic Compatibility (EMC) - Requirements and test methods
PT 61400-50-4	Wind energy generation systems - Part 50-4: Use of floating lidars for wind measurements
PT 61400-50-5	Use of scanning doppler lidars for wind measurements
PT 61400-60	Wind energy generation systems – Part 60: Validation of computational models
PT 61400-101	Wind energy generation systems - Part 101: General requirements for wind turbine plants
MT 1	Design requirements for wind turbines
MT 2	Safety of small wind turbines
MT 3-2	Design requirements for floating offshore wind turbines
MT 5	Wind energy generation systems - Part 5: Wind turbine blades
MT 6	Wind turbines - Tower and foundation design

MT 11	Acoustic noise measurement technique
MT 12	Power performance
MT 13	Measurement of mechanical loads
MT 23	Full-scale structural testing of rotor blades
MT 24	Lightning protection for wind turbines
JWG 1	Wind turbine gearboxes linked to ISO/TC 60
JWG 25	Communications for monitoring and control of wind power plants linked to TC 57
ahG 1	Terminology in the field of wind turbines
ahG 28	Strategy for sustainability
ahG 29	Revision of TC 88 scope

CENELEC	CLC/TC 88	Wind turbines	
	50 Standards	18 Projects	National delegates: 0
Scope	Standardisation in the field of wind energy generation systems including wind turbines, wind power plants onshore and offshore and interaction with the electrical system(s) to which energy is supplied. These standards address site suitability and resource assessment, design requirements, engineering integrity, modelling requirements, measurement techniques, test procedures, operation and maintenance. Their purpose is to provide a basis for design, quality assurance and technical aspects for certification. The standards address site-specific conditions, all systems and subsystems of wind turbines and wind power plants, such as mechanical, and electrical systems, support structures, control and protection as well as communication systems for monitoring, centralised and distributed control and evaluation, implementation of grid connection requirements for wind power plants, and environmental aspects of wind power development. The TC 88 standards will be developed based on and in agreement with appropriate EN/IEC/ISO standards.		

1.3.15 High Voltage

IEC	IEC/TC 17	High-voltage switchgear and controlgear	
	73 Standards	18 Projects	National delegates: 0
Scope	To prepare standards, technical specifications and technical reports covering high-voltage switchgear and controlgear as well as their assemblies having a rated voltage above 1 kV a.c. and 1,5 kV d.c., together with associated control digital communication, measuring, signaling, protective, regulating and other equipment.		
7	Working Groups directly under the Technical Committee		
WG 6	Common specifications for DC switchgear		
WG 10	High-voltage switchgear and controlgear - Part 320: Environmental aspects and life cycle Assessment rules		
WG 11	Elaborate on catalogue data		
MT 1	Maintenance of IEC 62271-1		
MT 2	Maintenance of IEC 62271-3: High-voltage switchgear and controlgear - Part 3: Digital interfaces based on IEC 61850		
MT 3	Maintenance of IEC 62271-4		
MT 9	Maintenance of IEC TR 62063		
2	Sub-Committees		
SC 17A	Switching devices		
SC 17C	Assemblies		

CENELEC	CLC/TC 17AC	High-voltage switchgear and controlgear	
	73 Standards	7 Projects	National delegates: 0
Scope	To prepare harmonized standards for high-voltage switchgear and controlgear including their assemblies for rated voltages above AC 1 kV or above DC 1,5 kV. Note: In general, relevant IEC standards will be transposed into EN via the Dresden Agreement. To prepare and revise harmonized standards for enclosures of gas-filled high-voltage switchgear having a design pressure higher than atmospheric pressure. To observe and support European activities related to standardization in the field of high voltage switchgear and controlgear in order to ensure the availability of EN suitable to cover the essential requirements of European Directives.		
3	Working Groups directly under the Technical Committee		
WG 02	Maintenance of EN 50052		
WG 03	Revision of EN 50089		
WG 04	Revision of EN 50187		

IEC	IEC/TC 99	Insulation co-ordination and system engineering of high voltage electrical power installations above 1,0 kV AC and 1,5 kV DC	
	13 Standards	6 Projects	National delegates: 0
Scope	Standardisation of: a) insulation co-ordination for high voltage systems in specifying basic principles of insulation co-ordination, definitions and standard insulation levels for all type of electrical equipment considering field of applications, minimum air clearances, test requirements and test procedures; and b) common rules and particular requirements for system engineering and erection of high voltage electrical power installations for power generation, transmission, distribution, and consumer premises, in both indoor and outdoor situations, with particular consideration of safety aspects. High voltage (HV) covers nominal voltages above 1,0 kV AC and 1,5 kV DC and includes the voltages referred to as medium voltage (MV), extra-high voltage (EHV) and ultra-high voltage (UHV).		
10	Working Groups directly under the Technical Committee		
MT 4	Maintenance of IEC 61936-1		
MT 9	Maintenance of IEC 60071-2 (former TC 28/MT9)		
MT 10	Maintenance of IEC 60071-1 (former TC 28/MT10)		
MT 12	Principles to be observed in the design and erection of high voltage installations - Safety of high voltage installations		
MT 14	Maintenance of IEC TR 60071-4		
JWG 13	Insulation co-ordination for HVDC systems linked to TC 115		
AG 11	Advisory Group on Strategy		
ahG 15	Establish a proposal for Group Safety Function		
ahG 16	Establish alignment of DC voltages in the range above 1,5 kV up to 100 kV		
JMT 7	Maintenance of IEC/TS 61936-2 linked to TC 115, SC 22F		

CENELEC	CLC/TC 99X	Power installations exceeding 1 kV a.c. (1,5 kV d.c.)	
	14 Standards	3 Projects	National delegates: 0
Scope	To prepare harmonized standards for high voltage power installations (exceeding 1 kV a.c. or 1,5 kV d.c.) located indoors or outdoors, including earthing. The standards will specify the design requirements of the installations, and the selection and erection of electrical equipment in order to ensure the safety of persons and the proper operation of the installations. The standards will not be applicable to factory built and type tested equipment, but will be relevant to the installation of this equipment. The standards will not be applicable to overhead and underground lines between separate installations.		
3	Working Groups directly under the Technical Committee		
WG 01	Earthing aspects		
WG 02	Technical Details		
WG 03	Insulation Coordination		

IEC	IEC/TC 115	High Voltage Direct Current (HVDC) transmission for DC voltages above 100 Kv	
	20 Standards	11 Projects	National delegates: 0
Scope	Standardization in the field of HVDC Transmission technology above 100kV. The task includes HVDC system oriented standards as design aspects, technical requirements, construction and commissioning, reliability and availability, and operation and maintenance. Standards of HVDC equipment so far related to the system aspects will be prepared in close collaboration with the relevant Technical Committees and Subcommittees.		
18	Working Groups directly under the Technical Committee		
WG 2	Reliability and availability evaluation of HVDC system		
WG 3	Electromagnetic performance of high voltage direct current (HVDC) overhead transmission lines		
WG 4	Guidelines on Asset Management of HVDC Installations (former PT1)		
WG 5	System design of HVDC project		
WG 6	Guideline for HVDC system operation procedures		
WG 7	DC side harmonics & filtering in LCC HVDC transmission systems		
WG 9	High-Voltage Direct Current (HVDC) Power Transmission - System requirements for DC-side equipment		
WG 10	Guideline for planning of HVDC systems - Part 1: HVDC systems with line commutated converters		
WG 12	Life extension of HVDC converter stations		
WG 13	Testing and commissioning of VSC HVDC schemes		
WG 15	System Aspects of HVDC Grids		
WG 16	Guidelines for parameters measurement of HVDC transmission line		
MT 8	Maintenance work for IEC/TS 62344		
JWG 11	Performance of voltage source converter based high-voltage direct current transmission linked to SC 22F		
JWG 14	DC voltages for HVDC grids linked to SC 22F		
AG 1	Advisory Group on Road Map and Editing		
ahG 17	High voltage DC circuit breaker - Onsite test		
JMT 1	HVDC substation audible noise linked to SC 22F		

1.3.16 Low Voltage

IEC/TC 109	Insulation co-ordination for low-voltage equipment	
13 Standards	1 Projects	National delegates: 0
Scope	To prepare International Standards on the principles of insulation coordination applicable to all low-voltage equipment (up to and including 1 000 V a.c. and 1 500V d.c.). To provide IEC Technical Committees with: - rules for the determination of voltage ratings for insulation coordination, - physical data for dimensioning of insulations to given voltage rating and - guidance for determination of clearances, and creepage distances and requirements for solid insulation with respect to insulation coordination and safety aspects up to 2 000 V a.c and 3 000 V d.c operating voltage. Horizontal Safety Function: Insulation coordination for voltages up to and including 1 000 V a.c. and 1 500 V d.c., including dimensioning of clearances, and creepage distances and requirements for solid insulation with respect to insulation coordination. This includes all methods of dielectric testing with respect to insulation coordination.	
4	Working Groups directly under the Technical Committee	
MT 1	Principles, requirements and tests for clearances, creepage distances and solid insulation	
MT 2	Coating, potting or moulding for protection against pollution	
MT 3	High-frequency voltage stress with respect to insulation coordination of equipment within low-voltage systems	
JWG 4	Insulation coordination for equipment within a voltage range between 1 000 V and 2 000 V A.C. or between 1 500 V and 3 000 V D.C.	

CLC/SR 109	Insulation co-ordination for low-voltage equipment	
5 Standards	1 Projects	National delegates: 0

IEC/TC 121	Switchgear and controlgear and their assemblies for low voltage	
101 Standards	24 Projects	National delegates: 0
Scope	To prepare international standards for low-voltage switchgear and controlgear equipment for industrial, commercial and similar use rated below or equal to 1 kV a.c. and 1,5 kV d.c, electromechanical as well as semiconductor (solid state) equipment. The scope includes open and enclosed separate items of equipment as well as assemblies which are the combinations of items of equipment into complete functional units.	
6	Working Groups directly under the Technical Committee	
WG 1	Energy Efficiency	
WG 2	Environmental aspects for Low-Voltage Switchgear and Controlgear and their assemblies.	
WG 3	Product data and properties for information exchange	
WG 4	Digital aspects	
PT 63482	Maintenance of low voltage switchgear and controlgear and their assemblies	
JPT 63404	Integration of radiocommunication of IEC 63404 linked to TC 23	
2	Sub-Committees	
SC 121A	Low-voltage switchgear and controlgear	
SC 121B	Low-voltage switchgear and controlgear assemblies	

CLC/SR 121	Switchgear and controlgear and their assemblies for low voltage	
0 Standards	5 Projects	National delegates: 0

CENELEC	CLC/TC 121A	Low-voltage switchgear and controlgear	
	68 Standards	21 Projects	National delegates: 0
Scope	To prepare harmonized standards for low-voltage apparatus, based on concluded international standards (normally prepared by IEC/SC 121A).		
1	Working Groups directly under the Technical Committee		
WG 3	Control switches		

CENELEC	CLC/SR 121B	Low-voltage switchgear and controlgear assemblies	
	19 Standards	4 Projects	National delegates: 0

1.3.17 Electrical Energy Storage Systems

IEC	IEC/TC 120	Electrical Energy Storage (EES) Systems	
	13 Standards	11 Projects	National delegates: 0
Scope	1. Standardization in the field of grid integrated EES Systems. - TC 120 focuses on system aspects on EES Systems rather than energy storage devices. - TC 120 investigates system aspects and the need for new standards for EES Systems. - TC 120 also focuses on the interaction between EES Systems and Electric Power Systems (EPS). 2. For the purpose of TC120, “grid” includes and is not limited to applications in: a) transmission grids b) distribution grids c) commercial grids d) industrial grids e) residential grids f) islanded grids g) MUSH(Municipal/Military, Utilities/Universities, Schools, Hospitals) grids h) ICI (Institutional, Commercial and Industrial) grids It is also confirmed that TC120 can include “smart grid.” Storage in railway systems is considered if it contributes as an EES System to the grid as referenced in2 a-f. Note: grid: electricity supply network (ISO/IEC 15067-3) smart grid: electric power system that utilizes information exchange and control technologies, distributed computing and associated sensors and actuators, for purposes such as: - to integrate the behaviour and actions of the network users and other stakeholders - to efficiently deliver sustainable, economic and secure electricity supplies (IEV 617-04-13) 3. EES Systems include any type of grid-connected EES Systems which can both store electrical energy from a grid or any other source and provide electrical energy to a grid. By that feature it maintains the balance between electrical energy demand and supply over a period of time. TC 120 considers all storage technologies as long as they are capable to store and to discharge electrical energy. (Energy storage itself is not in the scope of the work.) Note: Thermal storage systems are included in the scope, only from the electricity exchange point of view. Unidirectional energy storage systems such as UPS are not included in the scope of TC 120. 4. The scope of TC 120 is to prepare normative documents dealing with the system aspects of EES Systems. For example, TC 120 deals with defining unit parameters, testing methods, planning and installation, guide for environmental issues and system safety aspects.		
8	Working Groups directly under the Technical Committee		
WG 1	Terminology		
WG 2	Unit parameters and testing methods		
WG 3	Planning and installation		
WG 4	Environmental issues		
WG 5	Safety considerations		
MT 7	Electrical energy storage (EES) systems - Part 5-2: Safety requirements for grid-integrated EES systems - Electrochemical-based systems		
MT 8	Maintenance of IEC 62933-5-1 Ed.1		
CAG 6	Chairman Advisory Group		

CENELEC	CLC/SR 120	Electrical Energy Storage (EES) Systems	
	4 Standards	6 Projects	National delegates: 0

1.3.18 Protection from Lightning & Surges

IEC/TC 81	Lightning protection		
23 Standards	8 Projects	National delegates: 1	
Scope	To prepare international standards and guides for lightning protection for structures, as well for persons, installations, services and contents. The objective of the standards will be: - To develop requirements for design and installation of Lightning Protection Systems for structures, - To develop requirements for design and installation of Surge Protection Measures for structures as they relate to protection from lightning effects, - To develop basic requirements for protection against electromagnetic effects due to lightning, - To give general guidance to IEC member countries that may have need of such requirements and - To facilitate international exchanges that may be hampered by differences in national regulations.		
11	Working Groups directly under the Technical Committee		
WG 18	Application Guide of IEC 62305-3, Ed.3		
PT 62561-9	Lightning protection system components (LPSC) - Part 9 Requirements for components for protection against dangerous touch voltage		
MT 3	Maintenance of IEC 62305-4		
MT 8	Maintenance of IEC 62305-1		
MT 9	Maintenance of IEC 62305-2		
MT 14	Maintenance of IEC 62561 series		
MT 16	Maintenance of IEC 62858		
MT 17	Maintenance of IEC 62793		
MT 20	Maintenance of IEC TR 62713		
MT 21	Maintenance of the IEC 62305-3		
ahG 19	Conformity Assessment in the field of lightning protection		

CLC/TC 81X	Lightning protection		
25 Standards	8 Projects	National delegates: 1	
Scope	To prepare European Standards or, where not possible, guides for lightning protection for structures and buildings as well as for persons, services and contents.		
4	Working Groups directly under the Technical Committee		
WG 01	Maintenance of EN62305 - Part1		
WG 02	Lightning protection components		
WG 03	Protection against LEMP		
WG 04	Assessment of the risk of damage due to lightning		

IEC/TC 37	Surge arresters		
29 Standards	17 Projects	National delegates: 0	
Scope	To prepare international standards regarding: - Specifications for surge arresters and other surge protective devices (SPDs) - The choice of arresters to provide adequate protection of the system with satisfactory reliability, and the definitions of conditions of use enabling this result to be obtained.		
4	Working Groups directly under the Technical Committee		
PT 60099-11	Prepare Surge Arresters - Part 11: Metal-oxide Surge Arresters to Protect Power Line Insulation		
MT 4	Metal-oxide surge arresters - Maintenance of high voltage surge arrester test standards		
MT 10	Maintenance of IEC 60099-5		
WG 14	Surge Arc Suppressors		

2	Sub-Committees
SC 37A	Low-voltage surge protective devices
SC 37B	Components for low-voltage surge protection

CENELEC	CLC/SR 37	Surge arresters	
	4 Standards	2 Projects	National delegates: 0

CENELEC	CLC/TC 37A	Low voltage surge protective devices	
	12 Standards	9 Projects	National delegates: 0
Scope	To prepare European standards (ENs), Technical specifications (TSs) and Technical reports (TRs). These documents will cover surge protective devices (SPDs) for protection against surges due to lightning and/or other transient overvoltages and their selection and application. These devices are to be used in power, telecommunication and/or signalling networks with voltages up to 1 000 V a.c. or 1 500 V d.c.		
2	Working Groups directly under the Technical Committee		
WG 01	Development of SPDs for Power systems and for special applications including d.c.		
WG 02	Development of SPDs connected to Telecommunications ans Signalling Networks		

CENELEC	CLC/SR 37B	Components for low-voltage surge protection	
	7 Standards	4 Projects	National delegates: 0

1.3.19 Electric Cables & Electrical Accessories

IEC	IEC/TC 20	Electric cables	
	260 Standards	11 Projects	National delegates: 0
Scope	To prepare international standards for the design, testing and end-use recommendations (including current ratings) for insulated electrical power and control cables, their accessories and cable systems, for use in wiring and in power generation, distribution and transmission. The applications cover an unlimited range of voltage and current, and includes applications such as cables for photovoltaic installations, charging cables for electric vehicles, HVDC cables (land and sub-sea), High Temperature Superconducting (HTS) cables and heating cables where the current is used to create heat. Cables specifically designed for marine applications covered by SC 18A are excluded. All cables for communication, data transmission and other non-power applications are covered elsewhere. TC 20 holds a Group Safety Function for fire hazard testing on cables comprising: - flame propagation tests; - fire resistance tests; - smoke optical density tests; - corrosivity tests.		
4	Working Groups directly under the Technical Committee		
WG 16	High voltage cables (1kV and above), their accessories and cable systems		
WG 17	Low voltage cables below 1kV		
WG 18	Burning characteristics of electric cables		
WG 19	Current rating and short-circuit limits of cables		

CENELEC	CLC/TC 20	Electric cables	
	229 Standards	7 Projects	National delegates: 0
Scope	To prepare harmonized standards in the field of insulated conductors, cables and flexible cords and their accessories, for both low and high voltage with the exception of telecommunications wires and cables.		
5	Working Groups directly under the Technical Committee		
WG 09	Cables for use by electricity supply companies		
WG 10	Fire performance tests for cables		
WG 11	Harmonisation of joints, accessories and terminations of electric cables		
WG 12	Harmonisation of cables for railway rolling stock		
WG 13	Covered overhead line conductors		

IEC	IEC/TC 23	Electrical accessories	
	256 Standards	53 Projects	National delegates: 0
Scope	To coordinate between the different subcommittees of TC 23 and with other technical bodies within and outside IEC, aspects concerning safety, EMC, coordination, performance, compatibility interoperability, interchangeability, energy efficiency and terminology for electrical accessories contributing to the global management of the electrical energy. To prepare standards for electrical accessories and related systems, for AC and DC, for household and similar purposes, the word “similar” including locations such as offices, commercial and industrial premises, hospitals, public buildings, etc. These accessories and related systems are: - Intended for fixed installations or for use in or with appliances and other electrical or electronic equipment, and may include electronic components, and related software and digital interfaces. - normally installed by instructed or skilled persons and are normally used by ordinary persons. (…)		
9	Working Groups directly under the Technical Committee		
WG 8	Electrical accessories for direct current		
WG 9	Energy Efficiency Aspects in TC 23		
WG 12	Home and Building Electronic Systems (HBES) and Building Automation and control systems (BACS)		
MT 1	Sound signalling devices for household and similar porposes - Maintenance of IEC 62080		
MT 6	Installation couplers intended for permanent connection, maintenance of IEC 61535		
MT 11	Maintenance of IEC/TR 61916 - Electrical accessories - Harmonization of general rules		
AG 10	Co-ordinating Group of TC 23		
ahG 1	Conditions for electrical accessories to be used at temperatures outside the range of the existing standards		
JAG 13	TC 23 - TC 34 linked to TC 34		
7	Sub-Committees		
SC 23A	Cable management systems		
SC 23B	Plugs, socket-outlets and switches		
SC 23E	Circuit-breakers and similar equipment for household use		
SC 23G	Appliance couplers		
SC 23H	Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles		
SC 23J	Switches for appliances		
SC 23K	Electrical Energy Efficiency products		

CENELEC	CLC/SR 23	Electrical accessories	
	12 Standards	1 Projects	National delegates: 0

CENELEC	CLC/SR 23B	Plugs, socket-outlets and switches	
	0 Standards	0 Projects	National delegates: 0

CENELEC	CLC/TC 23BX	Switches, boxes and enclosures for household and similar purposes, plugs and socket outlet for D.C.	
	42 Standards	11 Projects	National delegates: 0
Scope	a) To prepare standards for general purpose switches including electronic switches, time-delay switches, remote control switches and isolating switches, Fireman's switches, for a.c. only, with rated voltage not exceeding 440 V, and with a maximum rated current not exceeding 125 A, intended for household and similar purposes, either indoors or outdoors. b) To prepare standards for switches and related accessories for use in Home and Building Electronic Systems (HBES), with a working voltage not exceeding 250 V a.c. and a rated current up to and including 16 A, intended for household and similar purposes, either indoors or outdoors and to associate electronic extension units. c) To prepare standards for general purpose plugs and fixed and portable socketoutlets, with a rated voltage not exceeding 440 V d.c. and a rated current not exceeding 10A, intended to be used in restricted access areas where only skilled or instructed people have access. d) To prepare standards for general purpose boxes and enclosures for household devices, boxes and enclosures with provision for suspension means, connecting boxes and enclosures, floor boxes and enclosures, enclosures for housing protective devices and similar power consuming devices with a rated voltage not exceeding 440 V, intended for household and similar purposes, either indoors or outdoors. e) To prepare standards for ancillary products which relate to/incorporate products covered by a), b), c), e.g. luminaire couplers, adaptors/cable reels, indicator light units, etc.		
8	Working Groups directly under the Technical Committee		
WG 01	Requirements and tests on EN 60669 - Parts 2		
WG 03	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations		
WG 04	Cable reels		
WG 06	Luminaire Couplers		
WG 07	WG on plug and socket-outlet system for d.c.		
WG 11	EN 60669-1		
WG 12	Cord Extension Sets		
WG 13	EN 63418		

CENELEC	CLC/TC 23E	Circuit breakers and similar devices for household and similar applications	
	59 Standards	10 Projects	National delegates: 0
Scope	To prepare harmonized standards for electrical circuit breakers for overcurrent protection, devices protecting against electric shock and all related accessories. These devices are used for household and similar purposes. The word "similar" includes locations such as offices, commercial and industrial premises, hospitals, public buildings etc. This equipment is intended for fixed installations or for use in or with appliances or other equipment. This equipment may include electronic components.		
3	Working Groups directly under the Technical Committee		
WG 01	Maintenance of TC23E standards		
WG 02	Self-reclosing devices (SRD)		
WG 04	Power frequency overvoltage protective device for household and similar applications (POP)		

CENELEC	CLC/SR 23G	Appliance couplers	
	19 Standards	0 Projects	National delegates: 0

CENELEC	CLC/TC 23H	Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles	
	27 Standards	6 Projects	National delegates: 0
Scope	To prepare standards for industrial plugs, socket-outlets and couplers suitable for use in industrial, commercial, private or public locations, either indoors or outdoors. To prepare standards for other accessories, such as industrial cable reels among others, intended for use with industrial plugs, socket-outlets and couplers. To prepare standards for connection products intended for the connection of electric vehicles to the supply network and/or to dedicated supply equipment. The rated voltages of products covered by these standards lie within IEC 60038.		
4	Working Groups directly under the Technical Committee		
WG 1	Low voltage plugs, socket-outlets and couplers for industrial purpose, industrial cable reels, and conversion adapters for industrial use		
WG 2	Plugs, socket-outlets and couplers for electric vehicles		
WG 4	High-voltage accessories		
WG 5	Contact interface for automated connection devices (ACD)		

CENELEC	CLC/SR 23J	Switches for appliances	
	13 Standards	1 Projects	National delegates: 0

CENELEC	CLC/SR 23K	Electrical energy efficiency products	
	1 Standards	2 Projects	National delegates: 0

CENELEC	CLC/TC 213	Cable management systems	
	53 Standards	15 Projects	National delegates: 0
Scope	To prepare European standardization publications for products and systems used for the management of all types of cables, information and communication lines, electrical power distribution conductors and associated accessories. Management includes support and/or containment and/or retention and/or protection against external influences.		
13	Working Groups directly under the Technical Committee		
WG 01	Cable trunking systems and cable ducting systems		
WG 02	Conduit systems including conduit fixing devices and liquid tight sheathing (underground conduit is excluded).		
WG 04	Conduit systems intended to be buried underground		
WG 05	Cable tray systems and cable ladder systems		
WG 06	Cable ties for electrical installations		
WG 07	Fire performances and environmental performances of cable management systems		
WG 07-01	Resistance to fire		
WG 08	Cable cleats for electrical installations		
WG 09	Cover plates and cover tapes for the protection and warning of the location of buried cables or buried conduits in underground installations		
WG 10	Powertrack systems		
WG 11	Electromagnetic characteristics of linear cable management systems		
WG 12	Articulated systems and flexible systems for cable guiding		
WG CAG	Chairman's advisory group		

1.3.20 Power Transformers & Capacitors

IEC/TC 14	Power transformers	
53 Standards	6 Projects	National delegates: 0

Scope	Standardization in the field of power transformers, tap-changers and reactors for use in power generation, transmission and distribution. Generally these transformers have power ratings above 1 kVA single phase and 5 kVA polyphase with a higher voltage winding of 1000 V or more, however the scope includes lower voltage transformers and regulators used in power delivery applications. Excluded: - Instrument transformers - Testing transformers - Traction transformers mounted on rolling stock - Welding transformers - Transformers for applications covered by TC 96.

21	Working Groups directly under the Technical Committee
PT 60076-57-135	Technical guideline for the Application, Specification, and Testing of Phase-Shifting Transformers
MT 60076-1	Power transformers - Part 1: General
MT 60076-2	Temperature rise for liquid-immersed transformers
MT 60076-3	Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air
MT 60076-4	Power transformers - Part 4: Guide to the lightning impulse and switching impulse testing - Power transformers and reactors
MT 60076-5	Ability to withstand short circuit
MT 60076-6	Reactors
MT 60076-7	Loading guide for oil-immersed power transformers
MT 60076-9	To revise IEC 60616
MT 60076-14	Liquid-immersed power transformers using high-temperature insulation materials
MT 60076-16	Transformers for wind turbine applications
MT 60076-18	To revise IEC 60076-18
MT 60076-19	Power transformers - Part 19: Rules for the determination of uncertainties in the measurement of losses in power transformers and reactors
MT 60076-21	Power transformers - Part 21: Standard requirements, terminology, and test code for step-voltage regulators
MT 60076-22	Maintenance of IEC 60076-22 series
MT 60076-25	Power transformers - Part 25: Neutral grounding resistors - General design requirements and test procedures
MT 60076-57-129	Power transformers - Part 57-129: HVDC converter transformers
MT 60214	Tap changers
AG 39	Functional classification of power transformers, reactors and accessories
ahG 40	Power transformers related to energy transition such as PV, battery storage, e-chargers and hydrogen generation
JMT 60076-26	Functional requirements of insulating liquids for use in power transformers linked to TC 10, TC 15, TC 112

CENELEC	CLC/TC 14	Power transformers	
	47 Standards	10 Projects	National delegates: 0
Scope	Standardization in the field of power transformers, tap-changers and reactors for use in power generation, transmission and distribution. Generally these transformers have power ratings above 1 kVA single phase and 5 kVA polyphase with a higher voltage winding of 1 000 V or more, however the scope includes lower voltage transformers and regulators used in power delivery applications. Excluded: - Instrument transformers - Testing transformers - Traction transformers mounted on rolling stock - Welding transformers - Transformers for applications covered by TC 96.		
5	Working Groups directly under the Technical Committee		
WG 21	Maintenance of EN50708-2 series		
WG 28	Plug in cable-connections		
WG 29	Maintenance of EN 50708-3 series		
WG 32	Maintenance of EN50708-1 series		
WG 33	Adoption of the IEC/IEEE dual logo standard IEC/IEEE 60076-57-1202		

IEC	IEC/TC 33	Power capacitors and their applications	
	51 Standards	5 Projects	National delegates: 0
Scope	Standardization of Power Capacitors and their Applications		
8	Working Groups directly under the Technical Committee		
MT 13	Series capacitor banks and protective equipment		
MT 18	Power electronics capacitors		
MT 19	Shunt power capacitors for AC systems having a rated voltage above 1000 V		
MT 20	Coupling capacitors and capacitor dividers		
MT 21	Shunt power capacitors for AC systems having a rated voltage up to and including 1000 V		
MT 24	Special applications		
MT 25	AC motor capacitors		
JMT 17A	(TC 33 - SC 17A) - Grading capacitors linked to SC 17A		

CENELEC	CLC/SR 33	Power capacitors and their applications	
	36 Standards	8 Projects	National delegates: 0

1.3.21 Electrical Installations

IEC	IEC/TC 31	Equipment for explosive atmospheres	
	96 Standards	29 Projects	National delegates: 0
Scope	To prepare and maintain international standards relating to equipment for use where there is a hazard due to the possible presence of explosive atmospheres of gases, vapours, mists or combustible dusts.		
38	Working Groups directly under the Technical Committee		
WG 22	Responsible for MT 60079-0, maintenance of IEV 60050.426 and other specific tasks assigned by TC 31		
WG 27	Electric Machines (motors and generators)		
WG 28	Dusts		
WG 30	Equipment process sealing		
WG 31	Gas/dust hybrid mixtures		

WG 32	Creepage and clearance distances
WG 37	Electrochemical cells and batteries and electrochemical capacitors in equipment for explosive atmospheres
WG 39	Adverse service conditions
WG 40	Luminaires
WG 42	Safety Devices Related to Explosion Risk
WG 43	High voltage
WG 47	Gc equipment
WG 54	Reference point for TC 31 standards as a basic safety publication
PT 60079-29-0	Gas detection equipment – General requirements and test methods, and any supplementary parts
PT 60079-44	Personal Competence
PT 60079-45	Electrical Ignition Systems for Internal Combustion Engines
MT 60079-1	Maintenance of IEC 60079-1
MT 60079-2	Maintenance of IEC 60079-2
MT 60079-7	Maintenance of IEC 60079-7
MT 60079-15	Maintenance of IEC 60079-15
MT 60079-18	Maintenance of IEC 60079-18
MT 60079-26	Maintenance of IEC 60079-26
MT 60079-28	Risk of ignition by radiation from optical equipment
MT 60079-29	Maintenance of IEC 60079-29 series
MT 60079-30	Maintenance for IEC 60079-30-1 and IEC 60079-30-2
MT 60079-33	To consider and update IEC 60079-33.
MT 60079-35	Maintenance of IEC 60079-35-1 and IEC 60079-35-2
MT 60079-46	Explosive atmospheres - Equipment assemblies
JWG 29	with TC 101 - Electrostatics linked to TC 101
JWG 45	Toxic gas detection for workplace atmospheres linked to ISO/TC 146/SC 2
JWG 50	JWG 50 standards coordination with IECEx linked to IECEx
AG 36	Chair's Advisory Group
AG 49	Portable and personal equipment
AG 55	Specific Conditions of Use
AG 59	Hydrogen Advisory Group
ahG 58	“ec” & “tc” Ex Equipment enclosures
JMT 62784	Particular requirements for vacuum cleaners and dust extractors providing equipment protection level Dc linked to SC 61J
EG 52	Editing Group
3	Sub-Committees
SC 31G	Intrinsically-safe apparatus
SC 31J	Classification of hazardous areas and installation requirements
SC 31M	Non-electrical equipment and protective systems for explosive atmospheres

CENELEC	CLC/TC 31	Electrical apparatus for potentially explosive atmospheres	
	77 Standards	26 Projects	National delegates: 0
Scope	To prepare and maintain European standards relating to equipment for use where there is a hazard due to the possible presence of explosive atmospheres of gases, vapours, mists or combustible dusts.		
7	Working Groups directly under the Technical Committee		
WG 09	Reliability of safety-related devices		
WG 20	Electrostatics		
WG 21	IEC 60079-30-X		

WG 22	Editing Group Annex ZZ
WG 23	Marking
WG 24	Vacuum Cleaner EPL Dc, Joint WG between CLC/TC 31 and CLC/TC 61 under Mode 4 Cooperation
WG 25	Batteries
2	Sub-Committees
SC 31-8	Electrostatic painting and finishing equipment
SC 31-9	Electrical apparatus for the detection and measurement of combustible gases to be used in industrial and commercial potentially explosive atmospheres

IEC/TC 32	Fuses	
60 Standards	17 Projects	National delegates: 0

Scope	To prepare international standards regarding specifications of all types of fuses, with the object of determining: 1. The characteristics which are essential in specifying the conditions for installation and operation of the fuses. 2. The requirements to be met by the fuses and the tests designed to ascertain their compliance with such requirements as well as the procedures to be followed for these tests; 3. Markings. To prepare for these fuses international standards for standard value of: 1. characteristics: rated voltages, currents and breaking capacities; 2. dimensions in connection with the fixing and interchangeability of high-voltage and low-voltage fuses.
4	Working Groups directly under the Technical Committee
WG 1	New standard for HV fuses / DC and /or special application
MT 2	Revise IEC 60943 TR
MT 3	Revision of IEC 60050-441
AG CAG	Chairman's Advisory Group
3	Sub-Committees
SC 32A	High-voltage fuses
SC 32B	Low-voltage fuses
SC 32C	Miniature fuses

CLC/SR 32	Fuses	
0 Standards	1 Projects	National delegates: 0

CLC/SR 32A	High-voltage fuses	
5 Standards	0 Projects	National delegates: 0

CLC/SR 32B	Low-voltage fuses	
13 Standards	5 Projects	National delegates: 0

CLC/SR 32C	Miniature fuses	
18 Standards	7 Projects	National delegates: 0

IEC/TC 73	Short-circuit currents		
	14 Standards	2 Projects	National delegates: 0
Scope	To prepare international standards for standardized procedures for the calculation of short-circuit currents, and of their thermal and mechanical effects. The standards shall be, as far as possible, in a form to facilitate their use by non-specialist engineers.		
1	Working Groups directly under the Technical Committee		
MT 1	Calculation of short-circuit currents		

CLC/SR 73	Short-circuit currents		
	5 Standards	1 Projects	National delegates: 0

IEC/TC 64	Electrical installations and protection against electric shock		
	84 Standards	21 Projects	National delegates: 0
Scope	To prepare International standards: - concerning protection against electric shock arising from equipment, from installations and from systems without limit of voltage; - for the design, erection foreseeable correct use, proper functioning and verification of all kind of electrical installations at supply voltage up to 1 kV AC. or 1,5 kV DC., except those installations covered by the following IEC committees: TC 9, TC 18, TC 44, TC 97, TC 99; - in co-ordination with TC 99, concerning requirements additional to those of TC 99 for the design, erection and verification of electrical installations of buildings above 1 kV up to 35 kV. The object of the standards shall be: - to lay down requirements for installation and co-ordination of electrical equipment - to lay down basic safety requirements for protection against electric shock for use by technical committees - to lay down safety requirements for protection against other hazards arising from the use of electricity (e.g. thermal effects, overcurrent, fault currents, voltage disturbances) - to specify the operational characteristics and performance criteria necessary for selection of equipment for installation applications - to give general guidance to IEC member countries that may have need of such requirements - and to facilitate international exchanges that may be hampered by differences in national regulations. The standards will not cover individual items of electrical equipment other than their selection for use. Horizontal Safety Function: Protection against electric shock for equipment and installations without limitation of voltage. Group Safety Function: Protection against electric shock for low-voltage electrical installations. Horizontal Energy Efficiency Function: low-voltage electrical installations.		
29	Working Groups directly under the Technical Committee		
WG 43	Application guides parts 61200-200 complying with IEC 60364		
WG 46	Residential electrical installation in direct current not intended to be connected to Public Distribution Network		
WG 48	Safety aspects of local generation and electrical energy storage		
PT 60364-5-57	Low-voltage electrical installations - Part 5: Selection and erection of electrical equipment - Clause 57: Stationary secondary batteries		
PT 60364-7-716	DC power distribution over Information Technology Cable Infrastructure		
PT 60364-7-720	Requirements for special installations or locations – DC power supply system in the data centre		
PT 60364-7-725	Requirements for special installations or locations - Resilient power supply system		
MT 1	Terms and definitions (IEV 826 and IEV 195 in collaboration with TC 1, and existing MT 1 - revision of IEC 60364 Part 1)		
MT 2	Current carrying capacity of conductors and related overcurrent protection		
MT 3	External influences		
MT 4	Effects of current passing through the body		
MT 9	Disconnecting times and related matters		
MT 12	Verification of electrical installations		

MT 17	Basic requirements for protection against electric shock
MT 32	Maintenance of IEC 60364-7-705: Electrical installations of buildings -Electrical installations of agricultural and horticultural premises
MT 33	Maintenance of IEC 60364-7-708, IEC 60364-7-709 709 and IEC 60364-7-721
MT 34	Electrical installations of buildings - Part 7-718: Requirements for special installations or locations - Communal facilities and workplaces
MT 36	Maintenance of IEC 60364-5-53, Clause 531
MT 37	Maintenance of IEC 60364-5-53, Clause 532
MT 38	Maintenance of IEC 60364-5-53, Clause 533
MT 39	Maintenance of IEC 60364-5-53, Clause 535 to 537
MT 40	Maintenance of IEC 60364-7-710 - Medical locations
MT 41	Low voltage electrical installations - Part 8-1
MT 42	Low voltage electrical installations - Supply of electric vehicles
JWG 32	Electrical safety of PV system installations linked to TC 82
JWG 44	Prosumer's Low Voltage Installation linked to TC 8, SC 8B
AG 45	Chair Advisory Group: administration and organization of TC 64 Working Groups
ahG 35	Review of TC 64 publications
JAG 47	Low voltage electrical installations - Supply of electric vehicles

CENELEC	CLC/TC 64	Electrical installations and protection against electric shock	
	93 Standards	21 Projects	National delegates: 0
Scope	To prepare International standards - concerning protection against electric shock arising from equipment, from installations and from systems without limit of voltage, - for the design, erection foreseeable correct use and verification of all kind of electrical installations at supply voltage up to 1 kV a.c or 1,5 kV d.c., except those installations covered by the following IEC committees: TC 9X, TC 18X, TC 44X, TC 97, TC 99X, - in co-ordination with TC 99X, concerning requirements additional to those of TC 99X for the design, erection and verification of electrical installations of buildings above 1 kV up to 35 kV. The object of the standards shall be: - to lay down requirements for installation and co-ordination of electrical equipment, - to lay down basic safety requirements for protection against electric shock for use by technical committees, - to lay down safety requirements for protection against other hazards arising from the use of electricity, - to give general guidance to IEC member countries that may have need of such requirements, and - to facilitate international exchanges that may be hampered by differences in national regulations. The standards will not cover individual items of electrical equipment other than their selection for use.		
31	Working Groups directly under the Technical Committee		
JWG 64/82	Installation of PV - Equipment		
WG 01	Fundamental principles		
WG 02	Wiring systems - Protective measures against thermal effects, overcurrent		
WG 03	Earthing arrangements, protective conductors and protective bonding conductors		
WG 04	Protection against overvoltages of atmospheric origin or due to switching		
WG 05	Selection and erection of electrical equipment - Common rules		
WG 06	Medical locations		
WG 07	Selection and erection of electrical equipment - Switchgear and controlgear		
WG 08	Luminaires and lighting installations - Coupler and boxes for luminaires		
WG 09	Disconnecting times and related matters		
WG 10	Low-voltage generating sets		
WG 11	Safety services, communal facilities and workplaces		
WG 12	Low-voltage electrical installations - Verification		
WG 13	Protection against electromagnetic interference (EMI) in installations of buildings		
WG 14	Embedded heating systems		

WG 15	Auxiliary circuits
WG 16	Mobile and temporary installations
WG 17	Protection against electric shock - Common aspect for installation and equipment
WG 18	Determination of cross sectional areas of conductors and selection of protective devices
WG 19	Lighting installations for advertising signs with a rated output voltage not exceeding 1000V , which are illuminated by hot-cathode-fluorescent lamps, luminous discharge tubes (neon-tubes), inductive discharge lamps, light emitting diodes (LEDS) and/or LE
WG 20	Caravans, caravan parks and marinas
WG 21	Location containing a bath tub or a shower basin
WG 22	Swimming pools and other basins rooms and cabins containing sauna heaters
WG 23	Construction and demolition side installation - Restrictive conductive locations
WG 24	Installations in agricultural and horticultural premises
WG 27	Electric vehicles
WG 28	Supply of inland navigation vessels
WG 29	HD 60364-8-1, low voltage electrical installations - Energy efficiency
WG 30	Low-voltage electrical installations - Part 8-2: Smart Low-Voltage Electrical Installations
WG 31	HD 60364-7-716
WG AHG	Coordinating Parts 5 and Parts 4

1.3.22 Communication Cables & Equipments

IEC	IEC/TC 46	Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories	
	375 Standards	54 Projects	National delegates: 0
Scope	To establish and maintain standards for the terminology, design, characteristics, related test methods and requirements for quality assessment of metallic conductors, wires, waveguide, RF connectors, RF and microwave passive components and accessories for analogue and digital transmission systems and equipment for communication networks and cabling. Note: Magnetic components and ferrite devices covered by the scope of TC 51 will not be dealt with by this technical committee.		
6	Working Groups directly under the Technical Committee		
WG 5	Test methods for electromagnetic compatibility (EMC) of metallic cables and other passive components		
WG 6	Passive Intermodulation Measurement (PIM)		
WG 9	Metallic Cable Assemblies for ICT		
WG 13	Leaky wave guides		
MT IEV-726	IEV 726		
JWG 1	Raw materials and environmental issues linked to SC 86A		
3	Sub-Committees		
SC 46A	Coaxial cables		
SC 46C	Wires and symmetric cables		
SC 46F	RF and microwave passive components		

CENELEC	CLC/SR 46F	RF and microwave passive components	
	93 Standards	10 Projects	National delegates: 0

CENELEC	CLC/SR 46X	Communication cables	
	170 Standards	17 Projects	National delegates: 0
Scope	To establish standards related to wires, symmetric cables, coaxial cables and waveguides with metallic conductors for use in telecommunication, data transmission, radio frequency, video communication and signalling equipment to satisfy the advances in developing technologies. Particular requirements for materials, if necessary, will be evaluated in liaison with other technical committees.		
3	Working Groups directly under the Technical Committee		
JWG TC46XTC86A	JWG 1 - Fire test methods and raw materials		
WG 02	Electrical Test method (excepting EMC and Raw materials)		
WG 04	Mechanical and Environmental Test Procedures		
2	Sub-Committees		
SC 46XA	Coaxial cables		
SC 46XC	Multicore, multipair and quad data communication cables		

IEC	IEC/TC 86	Fibre optics	
	645 Standards	102 Projects	National delegates: 0
Scope	To prepare standards for fibre optic systems, modules, devices and components intended primarily for use with communications equipment. This activity covers terminology, characteristics, related tests, calibration and measurement methods, functional interfaces, optical, environmental and mechanical requirements to ensure reliable system performance.		
4	Working Groups directly under the Technical Committee		
WG 1	Terminology and symbology		
WG 4	Fibre optic test equipment calibration		
JWG 9	Optical functionality for electronic assemblies linked to TC 91		
JAG 10	(Joint Advisory Group) Laser safety linked to TC 76		
3	Sub-Committees		
SC 86A	Fibres and cables		
SC 86B	Fibre optic interconnecting devices and passive components		
SC 86C	Fibre optic systems and active devices		

CENELEC	CLC/SR 86	Fibre optics	
	24 Standards	2 Projects	National delegates: 0

CENELEC	CLC/TC 86A	Optical fibres and optical fibre cables	
	119 Standards	35 Projects	National delegates: 0
Scope	To prepare and maintain specifications for optical fibres and optical fibre cables, excluding image transmission types.		
4	Working Groups directly under the Technical Committee		
JWG TC46X	Fire issues		
JWG TC86A/TC86BXA	Interaction between connectors and cables		
WG 04	Ad-hoc working group for the revision of CLC/TR 50510		
WG 05	Topics covering the repair of optical fibre cables		

CENELEC	CLC/SR 86B	Fibre optic interconnecting devices and passive components	
	0 Standards	0 Projects	National delegates: 0

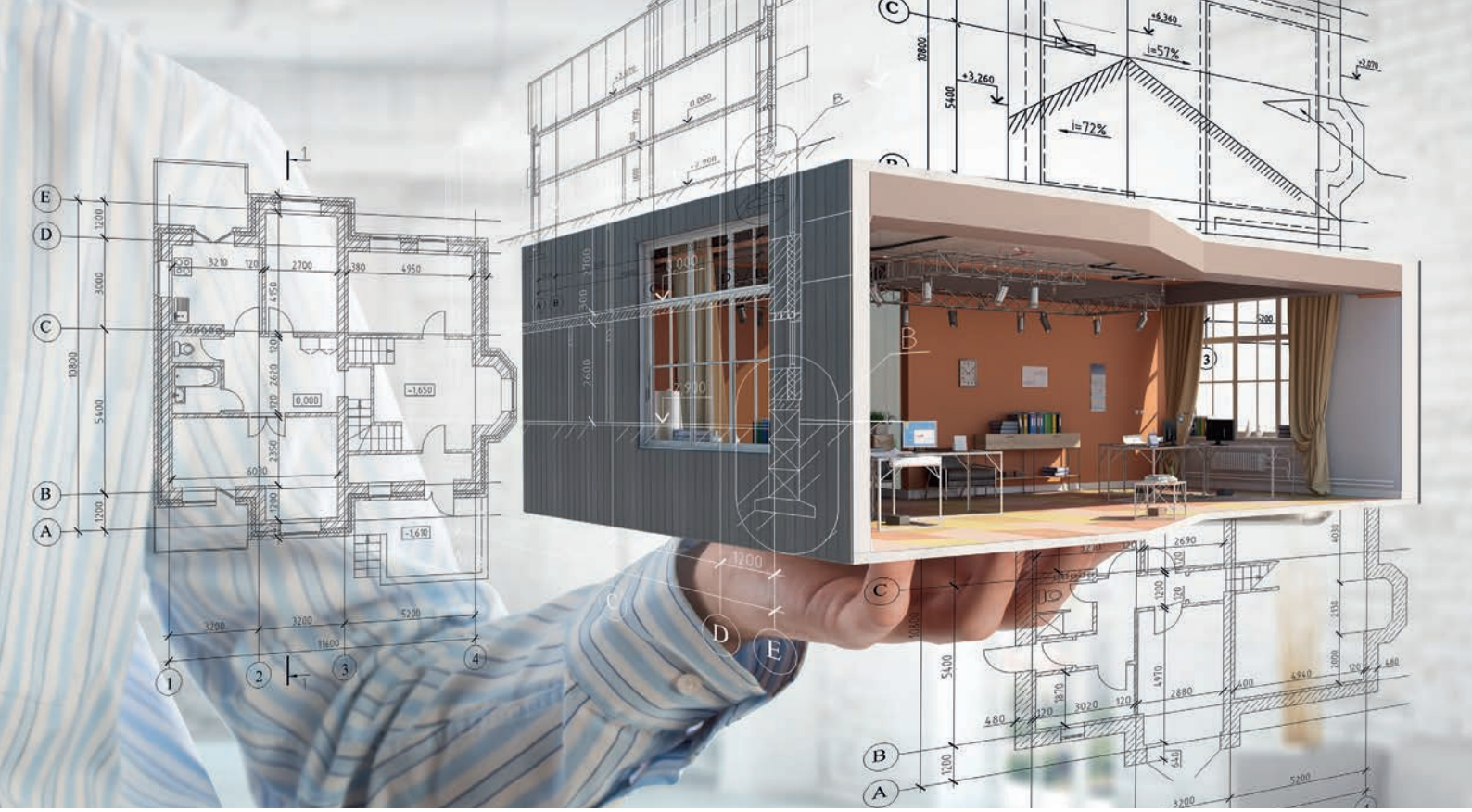
CENELEC	CLC/TC 86BXA	Fibre optic interconnect, passive and connectorised components	
	298 Standards	55 Projects	National delegates: 0
Scope	To prepare and maintain European Standards and specifications for fibre optic interconnecting devices, passive and/or connectorised components, fibre optic protective housings, fibre management systems, fusion splice protectors, mechanical splices, unprotected microduct tubes and microduct tube connectors.		
3	Working Groups directly under the Technical Committee		
JWG TC86BXATC86A	Interaction between connectors and cables		
WG 01	Fibre optic connectors & passive components		
WG 02	Fibre management systems and protective housings		

CENELEC	CLC/SR 86C	Fibre optic systems and active devices	
	126 Standards	5 Projects	National delegates: 0

CENELEC	CLC/TC 209	Cable networks for television signals, sound signals and interactive services	
	39 Standards	3 Projects	National delegates: 0
Scope	To develop harmonised and other European standards and deliverables relating to cable networks including equipment and associated methods of measurement for headend reception, processing and distribution of television and sound signals and for processing, interfacing and transmitting all kinds of data signals for interactive services using all applicable transmission media. These signals are typically transmitted in networks by frequency-multiplexing techniques. This includes for instance - regional and local broadband cable networks, - extended satellite and terrestrial television distribution systems, - individual satellite and terrestrial television receiving systems, and all kinds of equipment, systems and installations used in such cable networks, distribution and receiving systems. The extent of this standardization work is from the antennas and/or special signal source inputs to the headend or other interface points to the network up to the terminal input of the customer premises equipment. The standardization work will consider coexistence with users of the RF spectrum in wired and wireless transmission systems. The standardization of any user terminals (i.e. tuners, receivers, decoders, multimedia terminals etc.) as well as of any coaxial, balanced and optical cables and accessories thereof is excluded.		
7	Working Groups directly under the Technical Committee		
WG 01	Safety requirements		
WG 02	EMC for equipment and cable networks		
WG 03	Equipment for coaxial cable networks		
WG 05	Equipment and systems for optical cable networks		
WG 07	System performance		
WG 08	Ad-hoc WG « SAT » - Satellite systems and equipment		
WG CAG	Chairman's advisory group		

CENELEC	CLC/TC 215	Electrotechnical aspects of telecommunication equipment	
	55 Standards	1 Projects	National delegates: 4
Scope	- To address standardization in the field of electrotechnical aspects of telecommunication equipment and associated infrastructures and liaise with other standardization bodies as appropriate. - To prepare harmonized standards (EN, TS or TR) covering all aspects of generic and application-specific telecommunications cabling (e.g. ISDN, LAN and others) within all types of premises. - These documents also cover the requirements and recommendations for building infrastructures related to the effective installation and operation of associated telecommunication equipment by reference to the existing or forthcoming standards provided by the relevant committees or using technical inputs from them. - To provide contributions to ETSI standards (EN and/or other deliverables) in areas related to those detailed above. - To serve as a mediator in those cases where in accordance with the CENELEC-ETSI-Agreement ETSI indicates to CENELEC the need of standardization activities (EN/TS/TR or contributions to ETSI deliverables) of electrotechnical aspects related to its work. - Identification of the appropriate TC within CENELEC, thereby providing proper assignment of the technical work to the responsible group of experts. - Where an appropriate TC within CENELEC cannot be identified, TC 215 may decide to establish a Working Group to resolve a specific task. - To review international standardization results of ISO/IEC JTC 1 as far as telecommunication equipment with respect to Customer Premises Cabling and Energy Efficient Data Centres are concerned. This includes coordination of harmonization and assignment to the responsible organisation in close cooperation with CEN bearing in mind JTC 1 being a joint ISO/IEC-Committee.		
3	Working Groups directly under the Technical Committee		
WG 01	Cabling design		
WG 02	Cabling installation - Quality assurance and installation practices		
WG 03	Facilities and infrastructures		

ILNAS	ILNAS/TC 108	Vertical cabling	
	0 Standards	1 Projects	National delegates: 12
Scope	The purpose of the national standard is to specify technical and functional guidelines for vertical cabling in new and existing residential and mixed-use buildings.		



1.4
COMPLETION & FINISHING

PLASTERING

JOINERY

FLOOR AND WALL COVERING

PAINTING

GLAZING

ROOFING

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1.4 Completion & Finishing

1.4.1 Wood & Timber

ISO/TC 89	Wood-based panels		
	45 Standards	2 Projects	National delegates: 0
Scope	Standardization in the field of panels such as fibreboards, particle boards and plywood based on lignocellulosic materials (derived from wood or other materials) including terminology, classification, dimensions, test methods and quality requirements.		
1	Working Groups directly under the Technical Committee		
WG 5	Test methods		
3	Sub-Committees		
SC 1	Fibre boards [STANDBY]		
SC 2	Particle boards [STANDBY]		
SC 3	Plywood		

CEN/TC 112	Wood-based panels		
	69 Standards	9 Projects	National delegates: 0
Scope	Preparation of standards for wood-based panels and panels of other lignocellulosic materials covering: - terminology; - classification; - requirements; - product specifications; - methods of tests.		
7	Working Groups directly under the Technical Committee		
WG 2	Plywood		
WG 4	Test methods		
WG 5	Regulated dangerous substances		
WG 7	Semi-finished and finished products		
WG 8	Oriented strand boards (OSB)		
WG 11	Particleboards and fibreboards		
WG 13	Mandate		

CEN/TC 38	Durability of wood and wood-based products		
	56 Standards	16 Projects	National delegates: 0
Scope	Standardization of natural or conferred durability of wood and wood-based products against biological agents and their characteristics associated with exposure.		
8	Working Groups directly under the Technical Committee		
WG 21	Durability - Classification (Use classes-natural durability)		
WG 22	Performance - Assessment and specifications (treated wood - Wood preservatives)		
WG 23	Fungal testing (basidiomycetes-microfungi)		
WG 24	Insect testing - (beetles - termites)		
WG 25	External Factors and Preconditioning		
WG 26	Physical/chemical factors (analytical methods)		
WG 27	Exposure Aspects		
WG 28	Performance classification		

ISO/TC 218	Timber		
53 Standards	4 Projects	National delegates: 0	
Scope	Standardization of round, sawn and processed timber, and timber materials in and for use in all applications, including terminology, specifications and test methods. Excluded: - those applications of timber as covered by ISO/ TC 165 "Timber structures".		
7	Working Groups directly under the Technical Committee		
WG 1	Terminology		
WG 2	Round timber		
WG 3	Sawn and processed timber		
WG 4	Test methods		
WG 5	Parquet and wood flooring		
WG 6	Wooden products		
WG 7	Wood residue and post consumer wood		

CEN/TC 175	Round and sawn timber		
64 Standards	12 Projects	National delegates: 0	
Scope	Standardization of round and sawn timber in all uses, including timber prefabricated products and excluding structural aspects.		
10	Working Groups directly under the Technical Committee		
WG 1	General matters, definitions, measurement methods		
WG 2	Sawn timber		
WG 4	Round timber		
WG 5	Environmental topics		
WG 32	Specific user requirements - Timber in joinery		
WG 33	Specific user requirements - Timber in flooring		
WG 34	Specific user requirements - Timber in packaging and pallets, and other timber products		
WG 37	Specific user requirements - Timber in stairs		
WG 38	Specific user requirements - Timber in cladding and panelling		
WG 39	Specific user requirements - Fire retardant treated wood		

1.4.2 Gypsum

CEN/TC 241	Gypsum and gypsum based products		
27 Standards	1 Projects	National delegates: 0	
Scope	To prepare European standards for gypsum plasterboard, gypsum plasters, gypsum units, gypsum based and ancillary products as well as for design and application of the products: definitions, performance requirements, specifications & test methods.		
3	Working Groups directly under the Technical Committee		
WG 1	Powders		
WG 3	Board products		
WG 5	Framework and coordination		

1.4.3 Coatings

ISO/TC 107	Metallic and other inorganic coatings		
163 Standards	8 Projects	National delegates: 2	
Scope	- Standardization of the characteristics of protective and decorative metallic coating applied by electrolysis, fusion, vacuum or chemical means, mechanical deposition, ion plating. - Standardization of the characteristics of protective and decorative non-metallic coatings (excluding paints and other organic coatings) on metal surface applied by electrolysis, fusion, vacuum or chemical means. - Standardization of testing and inspection methods for such coatings. - Standardization of the preparation of the substrates prior to the deposition of metallic and inorganic coatings.		
5	Working Groups directly under the Technical Committee		
CAG	Chairman advisory group		
JWG 4	Joint ISO/TC 107 - ISO/TC 35/SC 9 WG: Thickness measurement methods for coatings, paints and varnishes		
WG 1	Thermal spraying		
WG 2	Vitreous and porcelain enamel coatings		
WG 5	Atomic layer deposition		
5	Sub-Committees		
SC 3	Electrodeposited coatings and related finishes		
SC 4	Hot dip coatings (galvanized, etc.)		
SC 7	Corrosion tests		
SC 8	Chemical conversion coatings		
SC 9	Physical vapor deposition coatings		

CEN/TC 262	Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys		
162 Standards	16 Projects	National delegates: 0	
Scope	Standardization in the field of metallic and other inorganic coatings, for corrosion protection of metals and for decorative and engineering purposes.		
5	Working Groups directly under the Technical Committee		
WG 2	Hot dip galvanized coatings		
WG 5	Vitreous enamel coatings		
WG 12	Maintenance and ISO co-ordination		
WG 13	Coating qualification tests		
WG 14	Guidelines and specifications for electrodeposited coatings of zinc or cadmium (including supplementary treatments) on iron or steel		

CEN/TC 240	Thermal spraying and thermally sprayed coatings		
41 Standards	5 Projects	National delegates: 0	
Scope	Standardization of definitions, acceptance test and quality control for thermal spraying equipment, specifications for spraying materials and sprayed coatings, including technical requirements, health and safety aspects, testing and testing procedures, basic rules for training and minimum requirements for operators.		

1.4.4 Sealing

CEN/TC 361	Polymer modified bituminous thick coatings for waterproofing - Definitions/requirements and test methods	
9 Standards	0 Projects	National delegates: 0

CEN/TC 254	Flexible sheets for waterproofing	
70 Standards	6 Projects	National delegates: 1
Scope	Preparation of European Standards on factory made flexible sheets for waterproofing for use in building construction and civil engineering.	
7	Working Groups directly under the Technical Committee	
WG 1	Coordination	
WG 3	Material properties relevant to wind uplift resistance	
WG 6	Bridge deck waterproofing	
WG 9	Underlays for discontinuous roof coverings	
WG 10	Ageing	
WG 15	PCR	
WG 16	Extrapolation rules for resistance to root penetration	
2	Sub-Committees	
SC 1	Bitumen sheeting	
SC 2	Synthetic sheets	

1.4.5 Sealant

ISO/TC 59/SC 8	Sealants	
38 Standards	2 Projects	National delegates: 0
Scope	Standardization in the field of buildings and civil engineering regarding: - general terminology; - test methods; - performance specifications; and - technical reports related to functional and user requirements of flexible sealing materials. Exclusion: Cementitious/mineral material (e.g., grouts)	
2	Working Groups directly under the Technical Committee	
WG 1	UV influence	
WG 10	Aesthetic issues	

CEN/TC 349	Sealants for joints in building construction	
10 Standards	5 Projects	National delegates: 0
Scope	European standardization on sealants for joints in building construction, by the preparation of European standards for their diverse applications.	
1	Working Groups directly under the Technical Committee	
WG 2	Sealants for glazing	

CEN/SS B02	Structures	
16 Standards	1 Projects	National delegates: 0

1.4.6 Roof

CEN/TC 128	Roof covering products for discontinuous laying and products for wall cladding		
43 Standards	24 Projects	National delegates: 3	
Scope	Standardization in the area of general and specific requirements and test methods for roof covering products for discontinuous laying and products for wall cladding, including anchor devices intended to prevent persons from falling and/or to arrest falls, used in and on buildings and civil engineering works.		
3	Working Groups directly under the Technical Committee		
WG 1	Mandates - Preparation		
WG 2	Pre-consideration Working Group		
WG 3	Renewable energy systems for roofs		
10	Sub-Committees		
SC 1	General requirements for roofing products - Types and scope of tests		
SC 2	Concrete roofing tiles		
SC 3	Clay roofing tiles		
SC 4	Fibre-cement products for roofing		
SC 6	Bitumen shingles and corrugated sheets for roofing		
SC 7	Roofing products from metal sheet		
SC 8	Slate and stone products for roofing		
SC 9	Prefabricated accessories for roofing		
SC 10	Gutters		
SC 11	Double skin metal faced insulating sandwich panels for roofing and cladding		

1.4.7 Doors & Windows

ISO/TC 162	Doors, windows and curtain walling	
21 Standards	2 Projects	National delegates: 0
Scope	Standardization in the field of doors, doorsets, windows, and curtain wall including hardware, manufactured from any suitable material covering the specific performance requirements, terminology, manufacturing sizes and dimensions, and methods of test. Excluded: The responsibility for dimensional coordination with other parts of buildings and general performance requirements derived from buildings as a whole, which devolves upon ISO/TC 59.	
3	Working Groups directly under the Technical Committee	
WG 3	Terminology	
WG 4	Windows and doors	
WG 5	Curtain walling	

CEN/TC 33	Doors, windows, shutters, building hardware and curtain walling	
157 Standards	28 Projects	National delegates: 0
Scope	Definition of functions of doors, windows, shutters, building hardware, and curtain walls and performance levels and classification associated with these functions which characterize the usage including the ability to meet the essential requirements (of the Construction Products Directive), tests requirements and, if necessary, the essential dimensions, terminology, symbols, packaging, marking and labelling.	
7	Working Groups directly under the Technical Committee	
WG 1	Windows and doors	
WG 3	Blinds and shutters	
WG 4	Building hardware	
WG 5	Industrial, commercial and garage doors and gates	
WG 6	Curtain walling	
WG 7	Burglary resistance	
WG 9	Powered Pedestrian Doors (PPD)	

1.4.8 Glass in Building

ISO/TC 160	Glass in building		
	58 Standards	10 Projects	National delegates: 0
Scope	Standardization in the field of glass in building, including terminology, performance requirements and methods of calculation and test, design and construction rules, classification and specification of materials, including dimensional properties.		
11	Working Groups directly under the Technical Committee		
CAG	Chair's Advisory Group		
WG 1	Basic glass products		
WG 2	Toughened glass		
WG 3	Laminated glass		
WG 4	Insulating glass units		
WG 5	Assembly rules and structural sealant glazing		
WG 6	Safety glazing tests		
WG 7	Airborne sound insulation of glazing		
WG 8	Light and energy transmission properties and thermal properties of glazing		
WG 9	Glass in building - Building integrated photovoltaics		
WG 10	Vacuum glass		
1	Sub-Committees		
SC 1	Product considerations		

CEN/TC 129	Glass in building		
	86 Standards	13 Projects	National delegates: 0
Scope	Standardization in the field of glass used in building including: - definitions of all types of glass products, basic and processed; - definition of characteristics; - test methods for measurement of characteristics; - calculation methods for characteristics; - requirements e.g. durability; - classifications e.g. anti-bandit glazing; - glazing methods.		
18	Working Groups directly under the Technical Committee		
WG 1	Basic glass products		
WG 2	Toughened, heat strengthened and enamelled glass		
WG 3	Laminated glass		
WG 4	Insulating glass units		
WG 5	Coated glass for mirrors		
WG 6	Coated glass for windows		
WG 8	Mechanical strength		
WG 9	Light and energy transmission, thermal insulation		
WG 10	Sound insulating glazed assemblies		
WG 11	Fire resistant glazed assemblies		
WG 12	Glass in building - Assembly rules		
WG 14	Security		
WG 16	Bonded glazing		
WG 17	Management		
WG 18	Filmed glass		
WG 19	Acid etched glass and sand blasted glass		
WG 20	Health, Hygiene, Environment and Sustainability		
WG 21	Digital communication of glass in building characteristics		

1.4.9 Paints & Varnishes

ISO/TC 35	Paints and varnishes		
295 Standards	54 Projects	National delegates: 1	
Scope	Standardization in the field of paints, varnishes and related products, including raw materials.		
4	Working Groups directly under the Technical Committee		
CAG	Chairman's advisory group		
JWG 6	Joint ISO/TC 35 - ISO/TC 67 WG: Competency requirements of coating inspectors and applicators		
WG 4	Binders for paints and varnishes		
WG 5	Naval stores		
5	Sub-Committees		
SC 9	General test methods for paints and varnishes		
SC 12	Preparation of steel substrates before application of paints and related products		
SC 14	Protective paint systems for steel structures		
SC 15	Protective coatings: concrete surface preparation and coating application		
SC 16	Chemical analysis		

CEN/TC 139	Paints and varnishes	
347 Standards	49 Projects	National delegates: 0
Scope	Standardization in the field of paints, varnishes and related products. Establishment of methods of test and requirements for coating materials and coatings. Definition of terms.	
5	Working Groups directly under the Technical Committee	
WG 1	Interior wall and facade coatings	
WG 2	Coating systems for wood	
WG 9	Testing of coil coated metals	
WG 10	Microbiology and leaching of substances	
WG 13	Reactive coatings for fire protection	

1.4.10 Wallcoverings

CEN/TC 99	Wallcoverings	
11 Standards	0 Projects	National delegates: 0
Scope	To elaborate ENs for wallcoverings in the sense that the term "wallcoverings" is used to cover all forms of flexible webs supplied in roll form for hanging onto walls or ceilings by means of an adhesive; it includes "finished wallcoverings", "wallcoverings for subsequent decoration", "heavy duty wallcoverings" and "textile wallcoverings" and cork wallcoverings in roll and panel form.	

1.4.11 Ceramic Tiles

ISO/TC 189	Ceramic tile	
35 Standards	11 Projects	National delegates: 0
Scope	Standardization of ceramic tiles generally used for floor coverings and wall facings.	
11	Working Groups directly under the Technical Committee	
WG 1	Test methods	
WG 2	Product specifications	
WG 3	Products for installation	
WG 4	Thin Tiles	
WG 6	Installation methods	
WG 7	Sustainability issues for ceramic tiling systems	
WG 8	Antimicrobial properties of ceramic tile surfaces	
WG 9	Low modulus adhesives for exterior tile finishing	
WG 10	Slip Resistance Measurement for Ceramic Tile	
WG 11	Uncoupling membranes for ceramic tile installation	
WG 12	Embodied carbon of ceramic tile and related products	

CEN/TC 67	Ceramic tiles	
27 Standards	5 Projects	National delegates: 0
Scope	To establish European Standards concerning terminology, technical characteristics, dimensional characteristics and tolerances, test and control methods, design and installation of ceramic tiles.	
4	Working Groups directly under the Technical Committee	
WG 1	Test methods	
WG 2	Specifications	
WG 3	Products for installation of ceramic tiles	
WG 5	Product category rules for ceramic tiles and installation products for ceramic tiling	

1.4.12 Ceilings

CEN/TC 277	Suspended ceilings	
1 Standards	0 Projects	National delegates: 0
Scope	To establish EN's on suspended ceilings for building and civil engineering works covering items such as terminology, fire, acoustics, thermal performances and also specifications for installations and application. To coordinate the outgoing work in relation to suspended ceilings in other functional and material related TC's.	

CEN/TC 357	Stretched ceilings	
1 Standards	0 Projects	National delegates: 0

1.4.13 Floor Coverings

ISO/TC 219	Floor coverings		
	83 Standards	8 Projects	National delegates: 0
Scope	Standardization in the field of textile, resilient and laminate floor coverings. Excluded: wood, ceramic, terrazzo, concrete and raised access type floorings.		
4	Working Groups directly under the Technical Committee		
WG 1	Textile floor coverings		
WG 2	Resilient floor coverings		
WG 3	Laminate floor coverings		
WG 4	Horizontal topics		

CEN/TC 134	Resilient, textile, laminate and modular mechanical locked floor coverings		
	96 Standards	18 Projects	National delegates: 0
Scope	Standardization of definitions, requirements, classification and test methods, and development of guidance documents and reports for resilient, textile, laminate and modular mechanical locked floor coverings. The main use areas for floor coverings within the scope of CEN/TC 134 are residential (homes, apartments) and commercial, (health care, education, hospitality, public buildings, offices, retail, transportation). These areas are limited to indoor use. Excluded are screeds, raised access floors, paving, surfaces for sports areas, as well as parquet, wood veneer and bamboo floorings.		
5	Working Groups directly under the Technical Committee		
WG 7	Resilient floor coverings		
WG 8	Textile floor coverings		
WG 9	Laminate floor coverings		
WG 10	Harmonization		
WG 11	Modular mechanical locked floor coverings (MMF)		

1.4.14 Floor Screeds

CEN/TC 303	Floor screeds and screed materials		
	13 Standards	3 Projects	National delegates: 0
Scope	Standardization of floor screeds and screed materials for floorings in buildings and civil engineering works.		
2	Working Groups directly under the Technical Committee		
WG 1	Terminology and properties		
WG 2	Test methods		

1.4.15 Surfaces for Sports Areas

CEN/TC 217	Surfaces for sports areas		
	50 Standards	6 Projects	National delegates: 0
Scope	This European Standard specifies a method for the determination of the slip resistance of a sports surface in relation to a studded or smooth soled sports shoe.		
3	Working Groups directly under the Technical Committee		
WG 2	Surfaces of sports halls		
WG 6	Synthetic surfaces primarily used outdoor		
WG 11	Test methods for sports surfaces.		

1.5
SAFETY, MACHINERY & EQUIPMENT

SAFETY ON CONSTRUCTION SITES

SAFETY IN USE OF EQUIPMENT AND MACHINERY

DESIGN AND USE OF MATERIALS AND MACHINERY

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1.5 Safety, Machinery & Equipment

1.5.1 Personal Protective Equipment

ISO/TC 94	Personal safety -- Personal protective equipment		
200 Standards	52 Projects	National delegates: 2	
Scope	Standardization of the performance of personal protective equipment designed to safeguard wearers against all known possible hazards.		
4	Working Groups directly under the Technical Committee		
CAG	Chairman advisory group		
WG 1	Compatibility of PPE items		
WG 2	Head protection		
5	Sub-Committees		
SC 3	Foot protection		
SC 6	Eye and face protection		
SC 13	Protective clothing		
SC 14	Firefighters' personal equipment		
SC 15	Respiratory protective devices		

CEN/TC 158	Head protection	
32 Standards	13 Projects	National delegates: 0
Scope	To develop European standardization documents in the field of head protection designed to safeguard wearers against known and potential hazards that cause head injuries. Hazards are identified by thorough risk assessment and the requirements reflect state of the art science as well as technical and economic considerations.	
7	Working Groups directly under the Technical Committee	
WG 1	Industrial safety helmets	
WG 3	Firefighters helmets	
WG 4	Helmets for cyclists	
WG 5	Helmets for horse riders	
WG 11	Headforms and test methods	
WG 13	Helmets for mountaineers	
WG 15	Helmets for S-EPAC users	

CEN/TC 159	Hearing protectors	
15 Standards	9 Projects	National delegates: 0
Scope	To prepare European standards related to personal hearing protective equipment to be used when sound exposure is expected to be hazardous to the ear including fit testing systems for determination of the individual hearing protection performance.	
3	Working Groups directly under the Technical Committee	
WG 2	Electronic and amplitude-sensitive hearing protectors	
WG 5	Hearing protectors - Selection and use	
WG 6	Hearing protectors - General requirements and test methods	

CEN/TC 160	Protection against falls from height including working belts		
23 Standards	9 Projects	National delegates: 2	
Scope	Standardization of requirements for personal protective equipment against falls (systems, subsystems and components), working belts and accessories including definitions of terms and establishment of test methods.		
5	Working Groups directly under the Technical Committee		
WG 1	General requirements		
WG 2	Personal fall arresting systems, components and systems		
WG 3	Personal equipment for work positioning and/or prevention of falls from a height		
WG 5	Rescue equipment		
WG 6	Definitions		

CEN/TC 161	Foot and leg protectors	
22 Standards	10 Projects	National delegates: 0
Scope	To prepare European standards in the field of protective footwear and leg protectors. Note: leg protectors are defined as an extension of protective footwear.	
2	Working Groups directly under the Technical Committee	
WG 1	PPE footwear - Test methods	
WG 2	PPE footwear - Requirements	

CEN/TC 162	Protective clothing including hand and arm protection and lifejackets	
157 Standards	48 Projects	National delegates: 2
Scope	To prepare European Standards (requirements and testing) in the field of clothing to protect against physical and chemical hazards. Hand and arm protectors are included as well as high visibility clothing and clothing against drowning (e.g. lifejackets).	
13	Working Groups directly under the Technical Committee	
WG 1	General requirements for protective clothing	
WG 2	Resistance to heat and fire of protective clothing	
WG 3	Protective clothing against chemicals, infective agents and radioactive contamination	
WG 4	Protective clothing against foul weather, wind and cold	
WG 5	Resistance to mechanical impact of protective clothing	
WG 6	Lifejackets	
WG 7	Visibility clothing and accessories	
WG 8	Protective gloves	
WG 9	Motorcycle rider protective clothing	
WG 10	Buoyant aids for swimming instruction	
WG 11	Body protection for sports	
WG 12	Diving suits	
WG 13	Joint Working Group between CEN/TC 162 and CEN/TC 161 - Test methods for permeation of chemicals through materials for protective footwear, gloves and clothing	

1.5.2 Tools

IEC/TC 116	Safety of motor-operated electric tools		
158 Standards	41 Projects	National delegates: 0	
Scope	To prepare international safety standards for electric motor-operated hand-held tools, transportable tools and lawn and garden machinery.		
6	Working Groups directly under the Technical Committee		
WG 7	Electric motor-operated hand-held transportable tools and lawn garden machinery - Safety - Part 1: General Requirements		
WG 8	Electric motor-operated hand-held tools		
WG 9	Electric motor-operated transportable tools		
WG 10	Electric motor-operated lawn and garden machinery		
WG 11	Dust measurement for electric motor-operated tools		
JWG 12	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-X linked to ISO/TC 23/SC 13		

CLC/TC 116	Safety and environmental aspects of motor-operated electric tools		
143 Standards	72 Projects	National delegates: 0	
Scope	To prepare European safety and environmental aspects standards for electric motor-operated hand-held and transportable tools and lawn and garden machinery.		
4	Working Groups directly under the Technical Committee		
WG 02	Electric motor-operated hand-held and transportable tools		
WG 04	Dust		
WG 05	Electric motor-operated lawn and garden machinery		
WG 06	Environmental aspects of motor-operated electric tools		

CEN/TC 213	Cartridge operated hand-held tools – Safety		
1 Standards	1 Projects	National delegates: 0	
Scope	Standardization in the field of hand-held machines, using propulsive charges. Priority should be given to the development of a standard for safety requirements for the design, construction and use of cartridge operated fixing tools (system consisting of tool, fastener and cartridge, functioning as an integral whole). Safety standards relating to the fastening point made with the cartridge operated fixing systems are not included in the scope. Safety standards for other cartridge operated, hand-held machines must be investigated.		
1	Working Groups directly under the Technical Committee		
WG 1	Cartridge Operated Fixing and Hard Marking tools		

CEN/TC 255	Hand-held, non-electric power tools – Safety		
15 Standards	1 Projects	National delegates: 0	
Scope	1) Standardization in the field of safety of non-electric hand-held power tools (including their use when mounted in fixtures) which can be both in one generic standard for aspects common to several types of tools, and standards for specific types of tools; 2) Coordination with CLC/TC 61F, CEN/TCs 65, 142, 144, 213, 151, 196 etc. for the purpose of ensuring the highest possible consistency in common safety measures; 3) Utilization of the work carried out in PNEUROP and other European Sector Committees or organizations; 4) Consideration of how B1-Standards for eg. the measurement of noise and vibration, and dust suppression, should be achieved in the field of responsability and with the aid of the CEN committees established for the purpose; 5) Standardization of vocabulary, symbols, and pictograms related to safety of hand-held tools.		

CEN/SS 109	Small tools	
8 Standards	2 Projects	National delegates: 0

1.5.3 Work at Height

ISO/TC 214	Elevating work platforms	
9 Standards	3 Projects	National delegates: 0
Scope	Standardization of terminology, ratings, general principles (technical performance requirements and risk assessment), safety requirements, test methods, maintenance and operation for elevating work platforms used to raise (elevate) and position personnel (and related work tools and materials) to a work position where a work task is to be performed.	
1	Working Groups directly under the Technical Committee	
WG 1	Mobile elevating work platforms	

CEN/TC 98	Lifting platforms	
12 Standards	5 Projects	National delegates: 2
Scope	Preparation of basic calculation and stability criteria, matters of construction, safety, testing and inspection of lifting platforms.	
9	Working Groups directly under the Technical Committee	
WG 1	Mobile elevating work platforms	
WG 2	Lifting tables	
WG 3	Vehicle lifting devices	
WG 4	Tail lifts	
WG 5	Dock levellers	
WG 6	Jacks	
WG 7	Suspended access equipment	
WG 8	Mast climbing work platforms	
WG 9	Mechanical Parking Devices	

CEN/TC 93	Ladders	
8 Standards	6 Projects	National delegates: 0
Scope	Standardization of portable ladders designed for general professional and non-professional use, attic stairs/loft ladders and ladders designed for specific professional use which are not covered by the scope of other Technical Committees.	
8	Working Groups directly under the Technical Committee	
WG 1	Step stools	
WG 2	Single and multiple hinge-joint ladders	
WG 3	User information	
WG 7	Accessories	
WG 9	Loft ladders	
WG 10	EN 131-1 and EN 131-2	
WG 12	Telescopic ladders	
WG 13	Ladders with separate platform	

1.5.4 Cranes

ISO/TC 96	Cranes	
108 Standards	12 Projects	National delegates: 0

Scope	Standardization in the field of cranes and related equipment which suspend loads by means of a load-handling device, particularly in respect of terminology, load rating, testing, safety, general design principles, maintenance, operation and load lifting attachments.
2	Working Groups directly under the Technical Committee
AHG 1	Cranes and lifting appliances - Classification
WG 3	Telematics
9	Sub-Committees
SC 2	Terminology
SC 3	Selection of ropes
SC 4	Test methods
SC 5	Use, operation and maintenance
SC 6	Mobile cranes
SC 7	Tower cranes
SC 8	Jib cranes
SC 9	Bridge and gantry cranes
SC 10	Design principles and requirements

CEN/TC 147	Cranes - Safety	
33 Standards	19 Projects	National delegates: 2

Scope	Development and maintenance of safety standards for the design, manufacture and information to be provided for the following products: 1. cranes (as defined in CEN/TC 147 Resolution 99); 2. equipment for the lifting of persons on/with certain cranes; 3. power driven winches and hoists, and their supporting structures; 4. hand-powered lifting machines; 5. non-fixed load lifting attachments; 6. manually controlled load manipulating devices. Exceptions are: - hoisting devices for gymnastic and playing field equipment; - robotic lifting machinery; - lifting attachments for the glass industry; - lifting machinery and attachments for medical use; - excavators used as cranes; - cable cranes.
11	Working Groups directly under the Technical Committee
WG 2	Design - General
WG 3	Design - Requirements for equipment
WG 11	Mobiles cranes
WG 12	Tower cranes
WG 14	Bridge and gantry cranes
WG 15	Offshore cranes
WG 17	Power driven winches and hoists
WG 18	Loader cranes
WG 20	Hand powered cranes
WG 21	Non-fixed load lifting attachments
WG 22	Manually controlled load manipulating devices

1.5.5 Machinery

ISO/TC 127	Earth-moving machinery		
179 Standards	17 Projects	National delegates: 0	
Scope	Standardization of nomenclature, use classification, ratings, technical requirements and test methods, safety requirements, operation, maintenance manual format for earth-moving and related machinery.		
5	Working Groups directly under the Technical Committee		
AHG 3	Investigation regarding the differences between block handlers and wheel loaders		
CAG	Chair's Advisory Group		
SG 1	ISO Off-Road Mobile Work Machine		
WG 8	Sustainability		
WG 17	Rechargeable Energy Storage System (RESS) application for EMM (ISO 5757)		
4	Sub-Committees		
SC 1	Test methods relating to safety and machine performance		
SC 2	Safety, ergonomics and general requirements		
SC 3	Machine characteristics, electrical and electronic systems, operation and maintenance		
SC 4	Terminology, commercial nomenclature, classification and ratings		

ISO/TC 110	Industrial trucks		
85 Standards	17 Projects	National delegates: 0	
Scope	Standardization in the field of power-operated industrial trucks, hand-operated industrial trucks (including sack trucks, hand carts, trailers), all types of wheels and castors excluding those with pneumatic tyres and rubber solid tyres for pneumatic tyre rims, comprising : - terminology and definitions; - safety requirements related to: design and construction; testing and inspection methods; operation and maintenance; - principal dimensions to facilitate interchangeability where essential to the interest of users and manufacturers. - Energy efficiency and other sustainability aspects Excluded: vehicles designed primarily for earth-moving or road transport.		
4	Sub-Committees		
SC 1	General terminology		
SC 2	Safety of powered industrial trucks		
SC 4	Rough-terrain trucks		
SC 5	Sustainability		

ISO/TC 195	Building construction machinery and equipment		
	39 Standards	21 Projects	National delegates: 0
Scope	Standardization in the field of Machines and equipment used on construction sites, including: - concrete machines (e.g. batcher, mixer, pump, sprayer, transport, vibrator, floating) - foundation machines (e.g. piling, diaphragm walling, earth boring, jetting, grouting, drill rigs for soil and rock mixture) - aggregate processing machines (e.g. screening, crushing) - road construction and maintenance machines and equipment - tunnel boring machines (TBMs) and associated machines and equipment [e.g. shielded tunnel boring machines, unshielded tunnel boring machines, telescopic shield machines, reaming machines, micro-tunneling machines, thrust boring machines, auger boring machines except for those used in mining), air locks, rescue chambers for TBMs, tunnel boring multi-service vehicles (MSVs)] - scaffolds - machines and plants for production and processing of building materials, including tooling of natural stone, manufacture of fine, heavy clay and refractory ceramics, production, treatment and processing of flat, hollow and special glass - machines and equipment for processing building materials on-site - road operation machinery and equipment, and associated services, concerning nomenclature, application, classification, ratings, technical requirements, test methods, safety requirements Excluded: - equipment for the extraction of solid mineral substances [e.g. road headers, continuous miners, rock drill rigs, raise boring machines, high wall miners, LHDs, mining auger boring machines, RMDSs (rapid mine development systems) (ISO/TC 82)]; - cranes (ISO/TC 96); - earth-moving machinery (ISO/TC 127); - elevating work platforms (ISO/TC 214); - building and civil engineering works (ISO/TC 59).		
4	Working Groups directly under the Technical Committee		
AG 1	Advisory group		
WG 5	Road construction and maintenance equipment - Terminology and commercial specifications		
WG 6	Hand-held machinery and equipment		
WG 9	Safety of mobile road construction machinery		
3	Sub-Committees		
SC 1	Machinery and equipment for concrete work		
SC 2	Road operation machinery and associated equipment		
SC 3	Drilling and foundation machinery and equipment		

ISO/TC 199	Safety of machinery		
	45 Standards	9 Projects	National delegates: 1
Scope	Standardization of basic concepts and general principles for safety of machinery incorporating terminology, methodology, guards and safety devices within the framework of ISO/IEC Guide 51 and in cooperation with other ISO and IEC technical committees. Excluded: product safety standards, as defined in ISO/IEC Guide 51, and which are explicitly covered by the work of other ISO or IEC technical committees.		
9	Working Groups directly under the Technical Committee		
WG 2	Hygiene requirements for the design of machinery		
WG 3	Safety of integrated manufacturing systems		
WG 5	General principles for the design of machinery and risk assessment		
WG 6	Safety distances and ergonomic aspects		
WG 7	Interlocking devices		
WG 8	Safe Control Systems		
WG 10	Fire prevention and protection		
WG 11	Permanent means of access to machinery		
WG 12	Human-machine-interactions		

CEN/TC 151	Construction equipment and building material machines - Safety	
108 Standards	58 Projects	National delegates: 0
Scope	Standardization in the field of safety of machines and equipment used on construction sites, for winter service and highway maintenance as well as for the production and processing of mineral building materials. In exceptional cases glass machinery used outside the building material sector (e.g. laboratory glass machinery) is included. Excluded are: - Mining machinery and equipment (e.g. road headers, rock drill rigs, raise boring machines, shaft boring machines, load haul dump (LHD)), (covered by CEN/TC 196); - Cranes (covered by CEN/TC 147); - Elevating work platforms (covered by CEN/TC 98); - Building hoists (covered by CEN/TC 10/SC 1); - Industrial trucks (covered by CEN/TC 150).	
12	Working Groups directly under the Technical Committee	
WG 1	Earth-moving machinery - Safety	
WG 3	Drilling and foundation equipment	
WG 4	Tunnel boring machines (TBM) and associated machines and equipment - safety	
WG 5	Road construction machines - Safety	
WG 6	Machines and equipment to process building materials (portable, hand-guided, support-mounted, on rails or self-propelled) - Safety	
WG 8	Concrete preparation and handling equipment - Safety	
WG 9	Machines and plants for the production of cement, lime, and gypsum, including crushing, screening, sizing and recycling - Safety	
WG 11	Machines and plants for mining and tooling of natural stone - Safety	
WG 13	Machines and plants for the production, treatment and processing of flat glass - Safety	
WG 15	Electromagnetic compatibility	
WG 16	Road operation machinery - Safety requirements	
WG 18	Machines and plants for the production, treatment and processing of hollow and special glass - Safety	

1.5.6 Mechanical Vibration & Shock

CEN/TC 231	Mechanical vibration and shock	
46 Standards	1 Projects	National delegates: 1
Scope	Standardization in the field of mechanical vibration and shock, including: - methods for measuring and evaluating mechanical vibration and shock; - methods for assessing human exposure to mechanical vibration and shock in any kind of environment; - description of the effects caused by human exposure to mechanical vibration and shock and guidelines for the reduction of these effects; - methods for evaluating the effects of mechanical vibration and shock on structures; - methods for reducing by machine design, risks resulting from exposure to mechanical vibration and shock; - methods for measuring and assessing the vibration and shock reduction characteristics of personal protective equipment (e.g. antivibration gloves), vibration isolators (e.g. resilient materials) and suspension systems (e.g. seats).	
2	Working Groups directly under the Technical Committee	
WG 2	Hand-arm vibration	
WG 12	Machinery Regulation Related Revisions	

1.5.7 Chains, Ropes, Webbing, Slings & Accessories

ISO/TC 111	Round steel link chains, chain slings, components and accessories		
21 Standards	0 Projects	National delegates: 2	
Scope	Standardization in the field of: - round steel link chains (excluding anchor chains and those used in mining); - sling hooks; - shackles, eyebolts, terminal links, joining links and terminal fittings for slings and other accessories. To deal with the following aspects of the above- mentioned items: terminology, material, dimensions and tolerances, basic design criteria, proof testing, working load, destructive and non-destructive tests relating to required mechanical properties, inspection, certification and marking. Excluded: - anchor chains covered by ISO/TC 8; - mining chains covered by ISO/TC 82.		
2	Sub-Committees		
SC 1	Chains and chain slings		
SC 3	Components and accessories		

CEN/TC 168	Chains, ropes, webbing, slings and accessories - Safety	
48 Standards	9 Projects	National delegates: 2
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.	
5	Working Groups directly under the Technical Committee	
WG 1	Welded round steel link chains and chain slings	
WG 2	Steel wire ropes, their terminations and wire rope slings	
WG 3	Fibre ropes, fibre rope slings, flat textile slings and round slings	
WG 4	Hooks and other accessories	
WG 6	Load restraint assemblies	

1.5.8 Aerial Ropeways, Funicular Ropeways & Surface Lifts

CEN/TC 242	Safety requirements for passenger transportation by rope	
19 Standards	7 Projects	National delegates: 0
Scope	Safety standards for the construction and operation of aerial ropeways, funicular ropeways and surface lifts for passenger transportation.	
14	Working Groups directly under the Technical Committee	
WG 1	Terminology	
WG 2	General requirements and calculations	
WG 3	Ropes	
WG 4	Tensioning devices and mechanical systems	
WG 5	Carriers	
WG 6	Electrical installations	
WG 7	Civil engineering works	
WG 8	Tests, maintenance, inspection	

WG 9	Recovery and evacuation
WG 10	Operation
WG 13	Safety of travelators for tourist or sporting use, used to transport passengers mainly in ski areas
WG 14	Prevention and fight against fire
WG 15	Workers safety
WG 16	Freight cableway installation with restricted passenger transport

1.5.9 Live Working

CENELEC	CLC/TC 78	Equipment and tools for live working	
	68 Standards	11 Projects	National delegates: 0
Scope	To prepare CENELEC standards for work equipment, devices and tools, including personal protective equipment used for work on or near live electrical systems or installations.		
10	Working Groups directly under the Technical Committee		
WG 05	Revision of EN 50321		
WG 06	Elaboration of Annex ZZ Electrical insulating gloves and sleeves		
WG 07	Revision of EN 50365		
WG 08	Revision of EN 50340		
WG 09	Revision of EN 50528		
WG 10	Revision of EN 50374		
WG 11	Revision of EN 50286		
WG 12	Harmonisation of IEC EN 62819 with PPE regulation		
WG 13	Cleaning for low and medium voltage equipement		
WG 13	Harmonisation of EN IEC 63232-2 according to PPE Regulation		

IEC	IEC/TC 78	Live working	
	64 Standards	10 Projects	National delegates: 0
Scope	To prepare International standards for tools, equipment and devices for utilization in Live Working, including their performance requirements, care and maintenance. Excluded: Work practices and methods for Live Working. To prepare technical publications related to the utilization of tools, equipment and devices on, and in the vicinity of, live parts of electrical installations and systems.		
24	Working Groups directly under the Technical Committee		
WG 1	Terminology and symbols		
WG 11	Technical support		
WG 12	Tools and equipment		
WG 13	Protective equipment		
WG 14	Diagnostic equipment		
WG 15	Arc Flash Protection		
PT 78-901	To develop an IEC Technical Report for correlating the results of arc test methods to electrotechnical applications in order to select the proper electric arc protective equipment		
PT 78-902	Guidance for the selection, use and maintenance of electrical arc flash personal protective equipment		

PT 78-904	Live working in the presence of RF fields
PT 63232	Electric arc performance of hand protection equipment - Test standard
PT 63247	Integration of EN 50321-1 to IEC 63247
MT 60855-1	Maintenance of 60855-1: Live working - Insulating foam-filled tubes and solid rods - Part 1: Tubes and rods of a circular cross-section
MT 60895	Maintenance of IEC 60895: Live working - Conductive clothing for use at nominal voltage up to 800 kV A.C. and ± 600 kV D.C.
MT 60903-984	Maintenance of IEC 60903: Live working - Gloves of insulating material and of IEC 60984: Sleeves of insulating material for live working
MT 61057	Maintenance of 61057: Aerial devices with insulating boom used for live working
MT 61111-61112	Maintenance of IEC 61111 and IEC 61112
MT 61243-1	Live working – Voltage detectors – Part 1: Capacitive type to be used for voltages exceeding 1 kV a. c.
MT 61482-1-1	Maintenance of IEC 61482-1-1: Live working - Protective clothing against the thermal hazards of an electric arc - Part 1-1: Test methods - Method 1: Determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing
MT 61482-2	Maintenance of IEC 61482-2: Part 2: Live working - Protective clothing against the thermal hazards of an electric arc - Part 2: Requirements
MT 62192	Maintenance of IEC 62192: Live working - Insulating ropes
MT 61328/62263	Maintenance of IEC TR 61328 and IEC TR 62263
ahG 17	Electrical testing on insulating protective products
ahG 18	Review the existing scope of IEC/TC 78
ahG 19	Study the scope of IEC 60895

1.5.10 Measuring Equipment for Electrical & Electromagnetic Quantities

IEC	IEC/TC 85	Measuring equipment for electrical and electromagnetic quantities	
	93 Standards	10 Projects	National delegates: 0
Scope	To prepare international standards for equipment, systems, and methods used in the fields of measurement, test, recurrent test, monitoring, evaluation, generation and analysis of steady state and dynamic (including temporary and transients) electrical and electromagnetic quantities, as well as their calibrators. Such equipment includes devices for testing the safety of power distribution systems and connected equipment, devices for monitoring the power distribution systems, electrical measuring transducers, signal generators, recorders together with their accessories. NOTE: Product safety aspects are covered by TC 66.		
8	Working Groups directly under the Technical Committee		
WG 8	Equipment for testing, monitoring or measuring the protective measures in energy distribution system		
WG 20	Equipment for measuring and monitoring of steady state and dynamic quantities in Power Distribution Systems		
WG 22	Waveform parameter measurements		
WG 23	Panel mounted electrical measuring instruments		
WG 24	Uncertainty Definition and Determination Process		
PT 85-1	Terminology		
JWG 26	Electrical safety in low voltage distribution systems up to 1.000 VAC and 1.500 VDC – Equipment for testing, measuring or monitoring of protective measures – Part 18: DC EV Supply Equipment Monitoring Device linked to TC 69		
AG CAG	Chair Advisory Group		

CENELEC	CLC/TC 85X	Measuring equipment for electrical and electromagnetic quantities	
	84 Standards	12 Projects	National delegates: 0
Scope	To develop European standards for equipment and systems for measuring, testing, monitoring, generating, and analyzing simple and complex electrical and electromagnetic quantities, as well as their calibrators. These standards apply to measuring equipment for industrial, commercial and building electrical installations (networks) always with the aim to preserve the quality of power supply in order to avoid malfunction and overheating of the connected devices, in particular due to an alteration of the mains voltage. The development of harmonized standards is also intended to meet the challenges of controlling energy consumption and is likely to be used as a support to the Technical Bodies involved in the Smart Grid and Smart Metering activities, or to be used as a support for EC Directives. Equipment in the scope of CLC/TC 85X include power meters and power quality instruments, calibrated measurement devices, signal generators, monitoring equipment, recorders and electrical measuring transducers, and devices for testing, measuring or monitoring of protective measures as given by European installation standards, together with their accessories.		
2	Working Groups directly under the Technical Committee		
WG 1	Pre-standardization, standardization and maintenance in the field of measurement applications		
WG 2	Testing and monitoring of protective measures		

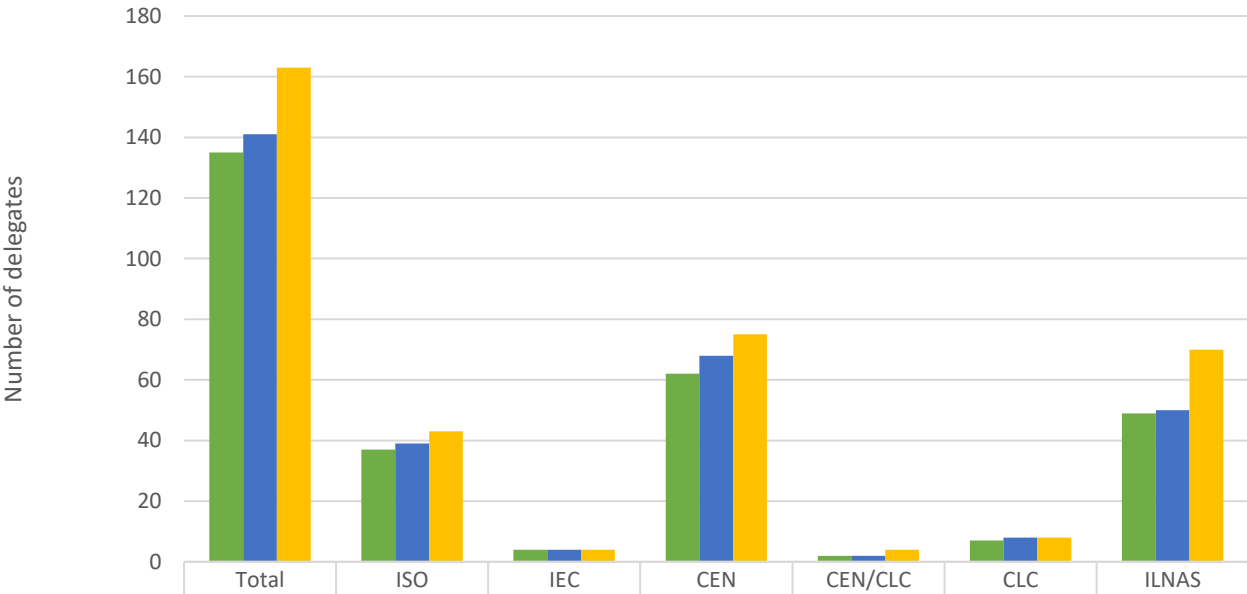
1.5.11 Temporary Works Equipment

cen	CEN/TC 53	Temporary works equipment	
	27 Standards	3 Projects	National delegates: 1
Scope	Standardization of temporary works equipment used for maintenance, building, construction work and for temporary structures made of the same equipment. The products and systems are normally intended for repeated use. Standardization of machinery is excluded.		
4	Working Groups directly under the Technical Committee		
WG 4	Mobile access towers		
WG 7	Safety nets		
WG 10	Guardrails for temporary works		
WG 16	Basic requirements		

2 National Participation in Technical Standardization

2.1 Participation Statistics in the Construction Sector

Figure 1 shows the participation of national standardization delegates within the different standardization organization. The total number corresponds to national delegates who have registered for an active participation in a technical committee, a subcommittee and/or a working group. Some of them are registered in multiple standardization organizations, which is why the sum of delegates in each organization does not equal the total number.



	Total	ISO	IEC	CEN	CEN/CLC	CLC	ILNAS
February 2022	135	37	4	62	2	7	49
February 2023	141	39	4	68	2	8	50
February 2024	163	43	4	75	4	8	70

Figure 1: Number of national delegates registered in the standardization organizations

As of February 2023, 163 national delegates are participating in technical standardization, representing an increase in participation of 20.7% compared with February 2022.

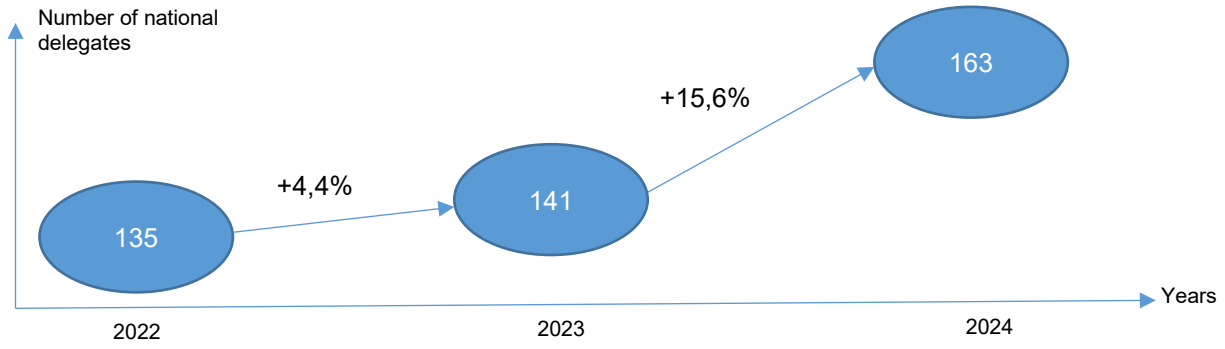
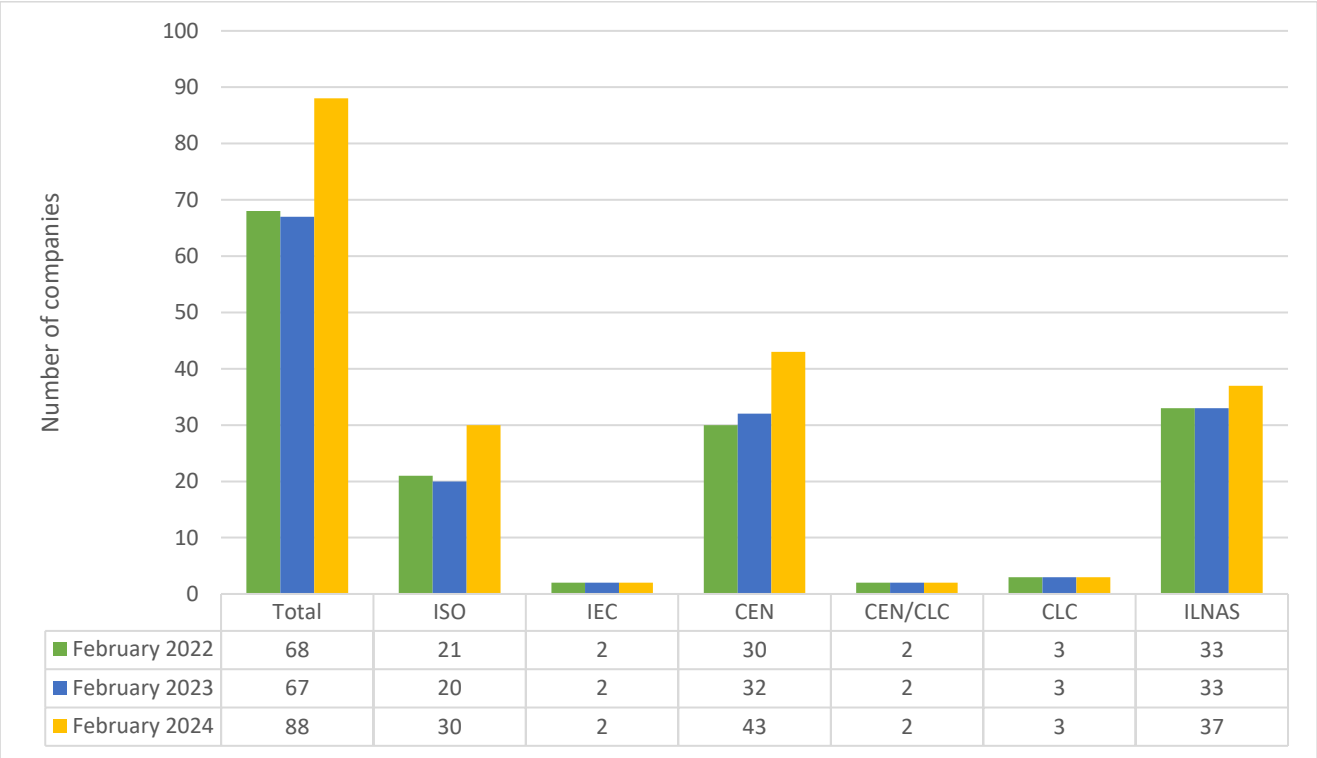
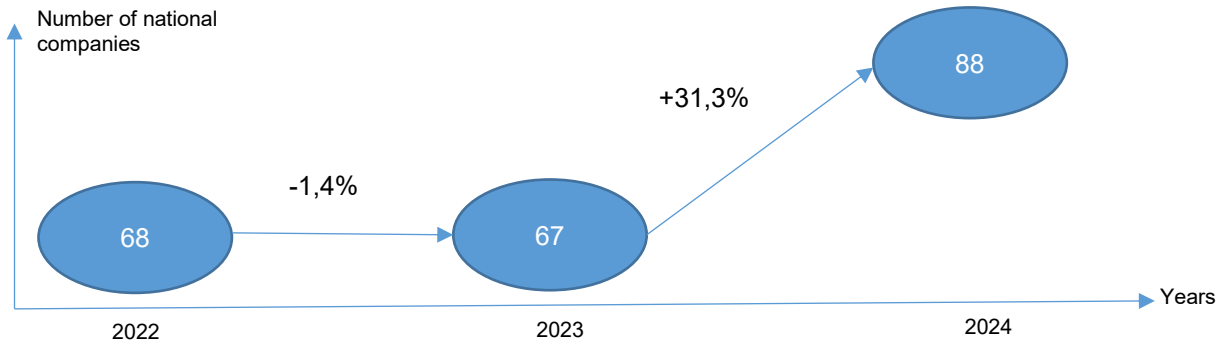


Figure 2 shows the evolution of national companies' participation in the various standardization organizations.



	Total	ISO	IEC	CEN	CEN/CLC	CLC	ILNAS
February 2022	68	21	2	30	2	3	33
February 2023	67	20	2	32	2	3	33
February 2024	88	30	2	43	2	3	37

Figure 2: Number of national companies involved in technical standardization per standardization organization



In February 2024, for technical committees related to the construction sector, Luxembourg has:
163 delegates involved in standardization, representing
88 different national **companies**.

2.2 National Delegates in the Construction Sector

2.2.1 List of technical committees with national delegates

This section lists all the technical committees, sub-committees and working groups related to the construction sector in which national delegates are involved.

N°	Technical Committees	Designations
1	CEN/CLC/JTC 11	Accessibility in the built environment
2	CEN/CLC/JTC 11/WG 1	Accessibility in the built environment; Revision of EN 17210
3	CEN/CLC/JTC 14	Energy management and energy efficiency in the framework of energy transition
4	CEN/CLC/JTC 14/WG 5	Energy management and energy efficiency in the framework of energy transition; Guanrantees of Origine and Energy Certificates
5	CEN/TC 104	Concrete and related products
6	CEN/TC 104/SC 1	Concrete and related products; Concrete - Specification, performance, production and conformity; Execution of concrete structures
7	CEN/TC 104/SC 2	Concrete and related products; Execution of concrete structures
8	CEN/TC 104/SC 8	Concrete and related products; Protection and repairs of concrete structures
9	CEN/TC 121	Welding and allied processes
10	CEN/TC 121/SC 4	Welding and allied processes; Quality management in the field of welding
11	CEN/TC 125/WG 5	Application of external rendering and internal plastering
12	CEN/TC 126	Acoustic properties of building elements and of buildings
13	CEN/TC 127	Fire safety in buildings
14	CEN/TC 128	Roof covering products for discontinuous laying and products for wall cladding
15	CEN/TC 128/SC 7	Roof covering products for discontinuous laying and products for wall cladding; Roofing products from metal sheet
16	CEN/TC 128/SC 9	Roof covering products for discontinuous laying and products for wall cladding; Prefabricated accessories for roofing
17	CEN/TC 128/SC 9/WG 1	Roof covering products for discontinuous laying and products for wall cladding; Prefabricated accessories for roofing; Walkways and safety hooks
18	CEN/TC 135	Execution of steel structures and aluminium structures
19	CEN/TC 135/WG 14	Execution of steel structures and aluminium structures; Execution of aluminium structures and steel structures with cold formed structural sheeting
20	CEN/TC 135/WG 17	Product category rules complementary to EN 15804 for Steel and Aluminium structural products for use in construction works
21	CEN/TC 135/WG 2	Execution of steel structures and aluminium structures; Technical requirements for the execution of steel structures
22	CEN/TC 147	Cranes - Safety
23	CEN/TC 147/WG 21	Cranes - Safety; Non-fixed load lifting attachments
24	CEN/TC 160	Protection against falls from height including working belts
25	CEN/TC 160/WG 1	Protection against falls from height including working belts; General requirements

N°	Technical Committees	Designations
26	CEN/TC 160/WG 2	Protection against falls from height including working belts; Personal fall arresting systems, components and systems
27	CEN/TC 162	Protective clothing including hand and arm protection and lifejackets
28	CEN/TC 162/WG 3	Protective clothing including hand and arm protection and lifejackets; Protective clothing against chemicals, infective agents and radioactive contamination
29	CEN/TC 168	Chains, ropes, webbing, slings and accessories - Safety
30	CEN/TC 168/WG 4	Chains, ropes, webbing, slings and accessories - Safety; Hooks and other accessories
31	CEN/TC 189	Geosynthetics
32	CEN/TC 189/WG 1	Geosynthetics; ad hoc group Asphalt reinforcement
33	CEN/TC 189/WG 2	Geosynthetics; Terminology, identification, sampling and classification
34	CEN/TC 189/WG 3	Geosynthetics; Mechanical testing
35	CEN/TC 189/WG 4	Geosynthetics; Hydraulic testing
36	CEN/TC 189/WG 5	Geosynthetics; Durability
37	CEN/TC 191/SC 1	Fixed firefighting systems; Smoke and heat control systems and components
38	CEN/TC 191/SC 1/WG 5	Fixed firefighting systems; Smoke and heat control systems and components; Design and calculation methods for smoke and heat exhaust ventilation systems
39	CEN/TC 191/SC 1/WG 9	Fixed firefighting systems; Smoke and heat control systems and components; Smoke control in covered vehicle parks
40	CEN/TC 191/WG 10	Fixed firefighting systems; Water mist systems
41	CEN/TC 191/WG 6	Fixed firefighting systems; Gas extinguishing Systems and components
42	CEN/TC 226	Road equipment
43	CEN/TC 227	Road materials
44	CEN/TC 227/WG 1	Road materials; Bituminous mixtures
45	CEN/TC 229	Precast concrete products
46	CEN/TC 231	Mechanical vibration and shock
47	CEN/TC 250	Structural Eurocodes
48	CEN/TC 250/SC 1	Structural Eurocodes; Eurocode 1 - Actions on structures
49	CEN/TC 250/SC 1/WG 2	Structural Eurocodes; Eurocode 1 - Actions on structures; Atmospheric icing of structures
50	CEN/TC 250/SC 1/WG 4	Structural Eurocodes; Eurocode 1 - Actions on structures; Actions on structures exposed to fire
51	CEN/TC 250/SC 2	Structural Eurocodes; Eurocode 2 - Design of concrete structures
52	CEN/TC 250/SC 2/WG 1	Structural Eurocodes; Eurocode 2 - Design of concrete structures; Coordination and Editoral Panel
53	CEN/TC 250/SC 2/WG 1/TG 2	Structural Eurocodes; Eurocode 2 - Design of concrete structures; Coordination and Editoral Panel; TG2
54	CEN/TC 250/SC 3	Structural Eurocodes; Eurocode 3 - Design of steel structures
55	CEN/TC 250/SC 3/WG 1	Structural Eurocodes; Eurocode 3 - Design of steel structures; General rules for buildings
56	CEN/TC 250/SC 3/WG 10	Structural Eurocodes; Eurocode 3 - Design of steel structures; Part 1 - 10:Material toughness

N°	Technical Committees	Designations
57	CEN/TC 250/SC 3/WG 12	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-1-12 - High strength steels
58	CEN/TC 250/SC 3/WG 18	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-5 - Piling
59	CEN/TC 250/SC 3/WG 2	Structural Eurocodes; Eurocode 3 - Design of steel structures; Fire
60	CEN/TC 250/SC 3/WG 20	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution for EN 1993-1-13
61	CEN/TC 250/SC 3/WG 22	Structural Eurocodes; EN 1993-1-14 – Design assisted by FEM
62	CEN/TC 250/SC 3/WG 3	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-1-3 - Cold-formed members
63	CEN/TC 250/SC 3/WG 8	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-1-8 - Joints and connections
64	CEN/TC 250/SC 3/WG 9	Structural Eurocodes; Eurocode 3 - Design of steel structures; Part 1 - 9:Fatigue
65	CEN/TC 250/SC 4	Structural Eurocodes; Eurocode 4 - Design of composite steel and concrete structures
66	CEN/TC 250/SC 4/WG 4	Structural Eurocodes; Eurocode 4; Design of composite steel and concrete structures; Evolution of EN 1994-1-1, EN 1994-1-2 and EN 1994-2
67	CEN/TC 250/SC 5	Structural Eurocodes; Eurocode 5 : Design of timber structures
68	CEN/TC 250/SC 5/WG 4	Structural Eurocodes; Eurocode 5 : Design of timber structures; Structural fire design
69	CEN/TC 250/SC 7	Structural Eurocodes; Eurocode 7 - Geotechnical design
70	CEN/TC 250/SC 7/WG 1	General rules and coordination
71	CEN/TC 250/SC 7/WG 2	Structural Eurocodes; Eurocode 7 - Geotechnical design; Ground investigation
72	CEN/TC 250/SC 7/WG 3	Structural Eurocodes; Eurocode 7 - Geotechnical design; Geotechnical constructions
73	CEN/TC 250/SC 8	Structural Eurocodes; Eurocode 8 - Earthquake resistance design of structures
74	CEN/TC 250/SC 8/WG 1	Structural Eurocodes; Eurocode 8 - Earthquake resistance design of structures; Masonry
75	CEN/TC 250/SC 8/WG 4	Structural Eurocodes; Eurocode 8 - Earthquake resistance design of structures; Seismic action and site classification
76	CEN/TC 254	Flexible sheets for waterproofing
77	CEN/TC 254/WG 9	Flexible sheets for waterproofing; Underlays for discontinuous roof coverings
78	CEN/TC 256	Railway applications
79	CEN/TC 256/SC 1	Railway applications; Infrastructure
80	CEN/TC 256/SC 2	Railway applications; Rolling stock products
81	CEN/TC 256/SC 3	Railway applications; Rolling stock systems
82	CEN/TC 256/WG 19	Railway applications; Technical drawings
83	CEN/TC 256/WG 32	Railway applications; Gauge
84	CEN/TC 287	Geographic Information
85	CEN/TC 288	Execution of special geotechnical works
86	CEN/TC 288/WG 19	Execution of special geotechnical works; Sheet-pile walls
87	CEN/TC 288/WG 26	Execution of special geotechnical works; Displacement piles
88	CEN/TC 341	Geotechnical Investigation and Testing

N°	Technical Committees	Designations
89	CEN/TC 350	Sustainability of construction works
90	CEN/TC 350/SC 1	Sustainability of construction works; Circular Economy in the Construction Sector
91	CEN/TC 350/SC 1/WG 1	Sustainability of construction works; Circular Economy in the Construction Sector; Framework, principles and definitions
92	CEN/TC 350/SC 1/WG 2	Sustainability of construction works; Circular Economy in the Construction Sector; Gap analysis, conclusions and recommendations
93	CEN/TC 350/WG 1	Sustainability of construction works; Environmental performance of buildings
94	CEN/TC 350/WG 3	Sustainability of construction works; Products Level
95	CEN/TC 350/WG 6	Sustainability of construction works; Civil Engineering works
96	CEN/TC 442	Building Information Modelling (BIM)
97	CEN/TC 442/WG 1	Building Information Modelling (BIM); Strategy and Planning
98	CEN/TC 442/WG 2	Building Information Modelling (BIM); Exchange information
99	CEN/TC 442/WG 3	Building Information Modelling (BIM); Information Delivery Specification
100	CEN/TC 442/WG 4	Building Information Modelling (BIM); Support Data Dictionaries
101	CEN/TC 451	Geothermal and water boreholes
102	CEN/TC 459/SC 12	ECISS - European Committee for Iron and Steel Standardization; General issues
103	CEN/TC 459/SC 3	ECISS - European Committee for Iron and Steel Standardization; Structural steels other than reinforcements
104	CEN/TC 459/SC 3/WG 1	ECISS; Structural steels other than reinforcements; Sheet piles
105	CEN/TC 459/SC 3/WG 9	ECISS; Structural steels other than reinforcements; Eurocode prEN 1993-1-1 Annex E
106	CEN/TC 459/SC 4	ECISS - European Committee for Iron and Steel Standardization; Concrete reinforcing and prestressing steels
107	CEN/TC 459/SC 9	ECISS - European Committee for Iron and Steel Standardization; Coated and uncoated flat products to be used for cold forming
108	CEN/TC 473	Circular Economy
109	CEN/TC 51	Cement and building limes
110	CEN/TC 53	Temporary works equipment
111	CEN/TC 69	Industrial valves
112	CEN/TC 69/WG 1	Industrial valves; Basic standards
113	CEN/TC 69/WG 15	Industrial valves; Diaphragm valves
114	CEN/TC 98/WG 7	Lifting platforms; Suspended access equipment
115	CENELEC/TC 215	Electrotechnical aspects of telecommunication equipment
116	CENELEC/TC 81X	Lightning protection
117	CENELEC/TC 9X	Electrical and electronic applications for railways
118	CENELEC/TC 9X/SC 9XA	Communication, signalling and processing systems
119	IEC/TC 81	Lightning protection
120	IEC/TC 9	Electrical equipment and systems for railways
121	ILNAS/TC 102	Béton

N°	Technical Committees	Designations
122	ILNAS/TC 103	Acoustique
123	ILNAS/TC 105	Missions de contrôle technique
124	ILNAS/TC 108	Câblage vertical
125	ILNAS/TC 109	Géotechnique
126	ISO/CASCO	Committee on conformity assessment
127	ISO/CASCO/WG 31	Committee on conformity assessment; Inspection
128	ISO/TC 107/SC 4	Metallic and other inorganic coatings; Hot dip coatings (galvanized, etc.)
129	ISO/TC 111	Round steel link chains, chain slings, components and accessories
130	ISO/TC 17	Steel
131	ISO/TC 17/SC 20	Steel; General technical delivery conditions, sampling and mechanical testing method
132	ISO/TC 17/SC 21	Steel; Environment related to climate change in the iron and steel industry
133	ISO/TC 17/SC 3	Steel; Steel for structural purposes
134	ISO/TC 182	Geotechnics
135	ISO/TC 182/WG 8	Geotechnics; Borehole expansion tests
136	ISO/TC 199	Safety of machinery
137	ISO/TC 207	Environmental management
138	ISO/TC 207/SC 1	Environmental management; Environmental management systems
139	ISO/TC 207/SC 4	Environmental management; Environmental performance evaluation
140	ISO/TC 207/SC 5	Environmental management; Life cycle assessment
141	ISO/TC 207/SC 7	Environmental management; Greenhouse gas management and related activities
142	ISO/TC 207/SC 7/WG 13	Environmental management; Greenhouse gas management and related activities; Radiative forcing management
143	ISO/TC 207/SC 7/WG 15	Environmental management; Greenhouse gas management and related activities; Carbon neutrality
144	ISO/TC 207/TG 1	Environmental management; Sustainable Finance Coordination
145	ISO/TC 209	Cleanrooms and associated controlled environments
146	ISO/TC 209/WG 11	Cleanrooms and associated controlled environments; Assessment of suitability of equipment and materials for cleanrooms
147	ISO/TC 21	Equipment for fire protection and fire fighting
148	ISO/TC 21/SC 5	Equipment for fire protection and fire fighting; fixed fire fighting systems using water
149	ISO/TC 21/SC 5/WG 10	Equipment for fire protection and fire fighting; fixed fire fighting systems using water;Valves
150	ISO/TC 21/SC 5/WG 11	Equipment for fire protection and fire fighting; fixed fire fighting systems using water; Pipes and fittings
151	ISO/TC 21/SC 5/WG 9	Equipment for fire protection and fire fighting; fixed fire fighting systems using water; Sprinklers and nozzles
152	ISO/TC 21/SC 8	Equipment for fire protection and fire fighting; Gaseous media and firefighting systems using gas
153	ISO/TC 21/SC 8/WG 11	Equipment for fire protection and fire fighting; Gaseous media and firefighting systems using gas; Small enclosure fire protection systems
154	ISO/TC 211	Geographic information/Geomatics

N°	Technical Committees	Designations
155	ISO/TC 211/WG 6	Geographic information/Geomatics; Imagery
156	ISO/TC 211/WG 7	Geographic information/Geomatics; Information communities
157	ISO/TC 221	Geosynthetics
158	ISO/TC 268	Sustainable cities and communities
159	ISO/TC 269	Railway applications
160	ISO/TC 269/SC 1	Railway applications; Infrastructure
161	ISO/TC 269/SC 2	Railway applications; Rolling stock
162	ISO/TC 269/SC 3	Railway applications; Operations and services
163	ISO/TC 323	Circular economy
164	ISO/TC 323/WG 1	Circular economy; Terminology, principles, frameworks and management system standard
165	ISO/TC 323/WG 2	Circular economy; Practical approaches to develop and implement Circular Economy
166	ISO/TC 323/WG 3	Circular economy; Measuring and assessing circularity
167	ISO/TC 323/WG 4	Circular economy; Circular Economy in practice: experience feedback
168	ISO/TC 323/WG 5	Circular economy; Product circularity data sheet
169	ISO/TC 35/SC 12	Paints and varnishes; Preparation of steel substrates before application of paints and related products
170	ISO/TC 35/SC 14	Paints and varnishes; Protective paint systems for steel structures
171	ISO/TC 43/SC 1	Acoustics; Noise
172	ISO/TC 43/SC 1/WG 42	Acoustics; Noise; Joint ISO/TC 43/SC 1 - ISO/TC 22 WG: Measurement of noise emission (external) from road vehicles
173	ISO/TC 43/SC 2	Acoustics; Building acoustics
174	ISO/TC 44/SC 10	Welding and allied processes; Quality management in the field of welding
175	ISO/TC 59/SC 13	Buildings and civil engineering works; Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)
176	ISO/TC 92	Fire safety
177	ISO/TC 94/SC 13	Personal safety -- Protective clothing and equipment; Protective clothing
178	ISO/TC 94/SC 13/WG 3	Personal safety -- Protective clothing and equipment; Protective clothing; Protective clothing against chemicals agents
179	ISO/TC 94/SC 13/WG 6	Personal safety -- Protective clothing and equipment; Protective clothing; Protective clothing against hazardous biological agents
180	ISO/TC 94/SC 14	Personal safety -- Protective clothing and equipment; Fire-fighter's personal equipment
181	ISO/TC 94/SC 14/WG 4	Personal safety -- Protective clothing and equipment; Fire-fighter's personal equipment; Hazardous materials incidents (hazmat)

Table 1: List of technical committees in the construction sector with a participation of national delegates – February 2024

2.2.2 List of national delegates in the construction sector

This section lists all the national delegates registered in a technical committee, sub-committee or working group related to the construction sector.

N°	Name	First Name	Company
1	ALSWAITTI	Mohammed	Université du Luxembourg
2	ANWAAR	Omer	ArcelorMittal Belval & Differdange S.A.
3	ARNOLDY	René	Foyer Assurances S.A.
4	AUBRY	Carole	Luxcontrol S.A.
5	AYED	Anna-Christine	+Impakt Luxembourg S.àr.l.
6	BACKES	Anne-Laure	DuPont de Nemours Luxembourg S.à r.l.
7	BALL	Jean-Bernard	PASS INGENIERIE & EXPERTISE SARL
8	BARTHELME	Marc	Administration des bâtiments publics
9	BELICA	Andrej	
10	BENETTO	Enrico	Luxembourg Institute of Science and Technology (LIST)
11	BERTHOME	Jean-Marie	ORGANISATION GESTION ET CONTRÔLE S.A.
12	BINDER	Martin	ST QUADRAT Fall Protection S.A.
13	BINSFELD	Nico	Eltrona Interdiffusion S.A.
14	BLASEN	Georges	Administration des Ponts et Chaussées
15	BLONDEL	Arnaud	Stugalux Construction S.A.
16	BOERI	Pamela	Institut Luxembourgeois de Régulation
17	BOGDAN	Teodora	Université du Luxembourg
18	BOLLEN	Jan	ArcelorMittal S.A.
19	BORRES	Stéphane	AlliA Insurance Brokers S.A.
20	BRAND	Catherine	CRTI-B GIE
21	BRAUN	Matthias	Simon-Christiansen & Associés S.A.
22	BRUCH	Erwin	SECOLUX S.A.
23	BUGIEL	Andreas	DuPont de Nemours Luxembourg S.à r.l.
24	BUKNYS	Arunas	FANUC Europe S.A.
25	BUTTEL	Luc	Administration de l'Environnement
26	CAJOT	Louis-Guy	SECO EXPERT S.A.
27	CALLEJAS	David	FALLPROTEC S.A.
28	CANDEIAS	Miguel	ArcelorMittal Belval & Differdange S.A.
29	CHAFI	Mostafa	ATEEL S.à r.l.
30	CHAPELON	Maxime	SECO Luxembourg S.A.
31	CHARLIER	Marion	ArcelorMittal Belval & Differdange S.A.
32	COLBACH	Robert	Administration des Ponts et Chaussées
33	COMBARRO SIMON	Manuel	Université du Luxembourg
34	DAVID-CLOS	Elke	DuPont de Nemours Luxembourg S.à r.l.
35	DE CARTIER D'YVES	Patrick	SECO Luxembourg S.A.
36	DE MULLEWIE	Georges	SECOLUX S.A.

N°	Name	First Name	Company
37	DERAVET	Marcel	IFSB S.A.
38	DJEDAI	Mohamed	HITEC Luxembourg S.A.
39	DOSSMANN	Etienne	TPF Luxembourg S.A.
40	DRETTAS	Christos	ArcelorMittal S.à r.l.
41	DUMBRUCK	Roger	SECOLUX S.A.
42	DUYCKAERTS	Olivier	Star Navigator S.àrl.
43	EISCHEN	Christophe	Administration Luxembourgeoise Vétérinaire et Alimentaire
44	EITNER	Volker	Geopartner S.à r.l.
45	ENGELS	François	Ministère de la Famille, de l'Intégration et à la Grande Région
46	FENUCCI	Mathieu	SECO EXPERT S.A.
47	FERNANDES	Gilberto	Administration des Ponts et Chaussées
48	FERRAND	Dominique	ILNAS
49	FERRONE	Andrew	Administration des services techniques de l'agriculture
50	FERY	Bruno	EBRC S.A.
51	FLENER	Steve	POST Luxembourg
52	FOURNY	David	SOCOTEC Luxembourg S.à r.l.
53	FRANCOIS	Antoine	EBRC S.A.
54	FRISING	Yves	Eltrona Interdiffusion S.A.
55	GAGLIARDI	Jeremy	GAGLIARDI Jeremy
56	GALMICHE	Alexis	Fondasol Luxembourg S.A.
57	GAMBA	Antonio	ArcelorMittal S.A.
58	GILL	Chris	Viking S.A.
59	GLORIEUX	Antoine	ArcelorMittal S.A.
60	GOEURY	Pierre-Yves	Fondasol Luxembourg S.A.
61	GOLDSCHMIT	Marc	POST Luxembourg
62	GRIFFATON	Simon	PREFALUX S.A.
63	GRUSLIN	Steve	GEOCONSEILS S.A.
64	HABIB	Karim	MyConnectivity G.I.E.
65	HACKENBERGER	Bernd	SISTO Armaturen S.A.
66	HADDAD	Hedieh	Université du Luxembourg
67	HANUS	François	ArcelorMittal Belval & Differdange S.A.
68	HEINEN	Laurent	Ordre des Architectes et Ingénieurs-Conseils
69	HEINTZ	Robert	EURASOL S.A.
70	HILGERS	Carsten	CFL
71	HIRTZ	Thierry	Administration des bâtiments publics
72	HITAJ	Claudia	Luxembourg Institute of Science & Technology
73	HOCHSCHEIDT	Axel	Schroeder & Associés S.A.
74	HOHL	Frederik	RINNEN Constructions Générales S.à r.l.
75	HUET	Stéphane	ORGANISATION GESTION ET CONTRÔLE S.A.
76	JUNG	Thierry	CFL
77	KATSAVRIAS	Evangelos	Astron Buildings S.A.

N°	Name	First Name	Company
78	KECH	Rudy	RENE MARTH S.àr.l.
79	KIRSCH	Thécla	Ökozenter Pafendall A.s.b.l.
80	KNEIP	André	Foyer Assurances S.A.
81	KOERFER	Magnus	Ministère de la Famille, de l'Intégration et à la Grande Région
82	KOLBER	Carine	Simon-Christiansen & Associés S.A.
83	KOLODKA	Marc	CFL
84	LAMBERT	Gaetan	Lifteurop S.A.
85	LAMBERT	Arnaud	Tractel Secalt S.A.
86	LAMMAR	Laura	Corps grand-ducal d'incendie et de secours
87	LANG	Eva-Maria	Chambre des Métiers
88	LARIOS	Julien	MyConnectivity G.I.E.
89	LEQUEUX	Jean-Marie	EQIOM BETONS S.A.
90	LEROY	Joël	ArcelorMittal Luxembourg
91	LION	Fabian	ENECO Ingénieurs-Conseils S.A.
92	LOSANGE	Christophe	CODIPROLUX S.A.
93	MAHJOUB	Raouf	Solutions30 S.A.
94	MAISONNEUVE	Gaétan	Cabinet d'expertise LNExp
95	MAJERUS	Samuel	Simon-Christiansen & Associés S.A.
96	MANGERS	Jeff	Université du Luxembourg
97	MARAI	Péter	Lindab S.A.
98	MARCHETTO	Christophe	Soft dB Europe S.àr.l.
99	MARTINS	João	ArcelorMittal Commercial RPS S.àr.l.
100	MATIAS DE PAULA	José	ArcelorMittal Global R&D S.A.
101	MEYER	Romain	Administration des ponts et chaussées
102	MUELLER	Ralph	CFL
103	MULHALL	Douglas	+Impakt Luxembourg S.àr.l.
104	NEY	Michel	BETONS FEIDT S.A.
105	NOËL	Xavier	Vinçotte Luxembourg A.s.b.l.
106	NOSBUSCH	Patrick	INCA Ingénieurs Conseils Associes S.à r.l.
107	NOWAK	Stéphane	DuPont de Nemours Luxembourg S.à r.l.
108	OBIALA	Renata	ArcelorMittal S.A.
109	ODENBREIT	Christoph	Université du Luxembourg
110	OLY	René	Astron Buildings S.A.
111	PASCUAL	Mickaël	Neobuild S.A.
112	PETIT	Marc	Administration des bâtiments publics
113	PETRY	Jérôme	Ministère de l'Economie
114	POCHET	Albin	Goodyear S.A.
115	POLETTI	Benoît	INCERT GIE
116	PONCIN	Marc	Luxcontrol S.A.
117	PREIS	Alain	SECOLUX S.A.

N°	Name	First Name	Company
118	PRÜM	Cécile	ArcelorMittal Belval & Differdange S.A.
119	RADEMACHER	Dennis	ArcelorMittal Commercial Sections S.A.
120	RAINGEVAL	Pascal	SECO Expert S.A.
121	RAMIREZ CEDRES	Adrian	Rotarex S.A.
122	RECH	Christian	CIMALUX S.A.
123	RECKINGER	Georges	Schroeder & Associés S.A.
124	RENAULD	Sébastien	EBRC S.A.
125	RENAULT	Thibaut	Energie & Environnement
126	RETTER	Felix	Luxembourg Online S.A.
127	RICHARD	Sébastien	EBRC S.A.
128	ROCK	Annick	Ministère du Logement
129	SAIED	Mahmoud	ArcelorMittal Belval & Differdange S.A.
130	SAYYAREH	Shahin	Université du Luxembourg
131	SCHANTZEN	Steve	Administration des bâtiments publics
132	SCHAUBROECK	Thomas	Luxembourg Institute of Science and Technology (LIST)
133	SCHINTGEN	Guy	
134	SCHLEICH	Jean-Baptiste	
135	SCHUMACHER	Kim	Ministère de l'Environnement, du Climat et du Développement durable
136	SCHWALL	François	Neobuild S.A.
137	SCIOTTI	Sébastien	BETIC Ingénieurs-Conseils S.A.
138	SCRIBE	Jean-Philippe	PROXIMUS Luxembourg S.A.
139	SIMON	Claude	CIMALUX S.A.
140	STATUCKI	David	Schroeder & Associés
141	STEICHEN	Claude	Administration des Ponts et Chaussées
142	SYRETT	Alison	AVL S.à r.l.
143	TENEUL	Jean-François	DuPont de Nemours Luxembourg S.à r.l.
144	THILL	Manon	Ministère de la Famille, de l'Intégration et à la Grande Région
145	THILLEN	Ines	MFPRA - Service national de la sécurité dans la fonction publique
146	THYES	Léon	IN-SITU S.A.
147	TIBOLT	Mike	ArcelorMittal Belval & Differdange S.A.
148	TOMASINI	Folco	FOLCO TOMASINI S.à r.l.
149	TRESSER	Markus	Luxembourg Institute for Building and Technology S.A.
150	URIOS	Thomas	ArcelorMittal Belval & Differdange S.A.
151	VERHAMME	Geoffroy	SECOLUX S.A.
152	VIOLA	Moreno	CRTI-B GIE
153	WALDMANN-DIEDERICH	Danièle	Université du Luxembourg
154	WAUTELET	Thibaut	+Impakt Luxembourg S.àr.l.
155	WEBER	Ernst	ArcelorMittal Commercial RPS S.àr.l.
156	WERN	Mario	ENECO Ingénieurs-Conseils S.A.

N°	Name	First Name	Company
157	WEYDERT	Romain	RW CONSULT S.àr.l.
158	WOLF	Sébastien	ArcelorMittal Bissen & Bettembourg S.A.
159	YANG	Jie	ArcelorMittal Global R&D
160	ZANON	Riccardo	ArcelorMittal S.A.
161	ZDJELAR	Eric	ORGANISATION GESTION ET CONTRÔLE S.A.
162	ZIGNALE	Daniel	BIM Consult S.àr.l.
163	ZINCK	Sébastien	Luxembourg Institute of Science and Technology (LIST)

Table 2: List of national delegates in the construction sector – February 2024

CONCLUSION

Construction has been identified as a sector with high growth potential in the national standardization strategy 2020-2030. In this context, ILNAS actively supports national actors wishing to get involved in technical standardization, as part of the implementation of Luxembourg's policy for technical standardization of the construction sector (2020-2025). The main objective of this policy is to strengthen the involvement of national stakeholders in standardization activities and encourage the use of standards through three flagship projects:

- Promote technical standardization in the construction sector;
- Support the involvement of the national market in the standardization process;
- Develop and strenghten education on technical standardization and related research activities in the construction sector.

In addition to this new version of the standards analysis of the construction sector, many other tools and services are available to facilitate the national market's access to technical standardization:

- Reading stations where market players can consult published standards free of charge;
- The ILNAS e-shop offering the possibility to search and purchase national, European and international standards as well as participating in the public enquiries that precede the publication of a standard;
- Specific standards watches to update a standards catalog or to search for specific standards on a given topic of interest;
- Technical reports, including the technical report on sustainable construction published at the end of 2023;
- Training courses on technical standardization, dedicated to BIM (Building Information Modeling), sustainable construction, and others;
- Technical information sheets providing key standards information on specific topics (e.g., acoustics, Eurocodes, BIM, circular economy, timber structures, etc.).

ILNAS offers all economic actors in Luxembourg the opportunity to contribute to the development of European and international standards by registering as a national delegate, and welcomes any new proposals for the development of national standards that meet concrete needs expressed by the sector's national stakeholders.

If you have any questions or suggestions relating to standardization, please send an e-mail to normalisation@ilnas.etat.lu.

Please fill out the satisfaction survey:

https://gd.lu/cNZMDf

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