



ILNAS



STUDY &
DESIGN



BUILDING
CONSTRUCTION &
CIVIL ENGINEERING



INSTALLATION



COMPLETION &
FINISHING



SAFETY,
MACHINERY &
EQUIPMENT

STANDARDS ANALYSIS

CONSTRUCTION

LUXEMBOURG

Version 2.0 · April 2022

ISSN 2738-9456





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CONSTRUCTION

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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'Économie de la Connaissance

FOREWORD

Technical standardization and standards play an important role in the support of economic development. Nowadays, almost every professional sector relies on standards to increase the effectiveness of day-to-day business. For example, standards can provide good practices for service and product development, governance, quality assessment, safety, etc. Furthermore, technical standardization constitutes an incubator to foster innovation and the uptake of new services or products. It notably offers an access to technologies and knowledge that supports market entry, an opportunity to benefit from a network of thousands of experts, and an aid in complying with regulation and certifications. Standards also create trust in innovative solutions and ensure their interoperability in order to facilitate their acceptance by the market. Standards are therefore considered as a source of benefits in all sectors of the economy.

At the national level, the *Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services* (ILNAS), an administration under the supervision of the Minister of the Economy, is the national standards body. In this frame, ILNAS is a member of the European (CEN, CENELEC, ETSI) and international (ISO, IEC, ITU-T) standardization organizations and, among other missions, allows the participation of the national market in the development of standards within these entities.

In order to promote and develop technical standardization in Luxembourg, ILNAS leads the implementation of the "[Luxembourg Standardization Strategy 2020-2030](#)", signed by the Minister of the Economy, which identifies the Construction sector as one of the most relevant for national economic growth, along with the Information and Communication Technologies 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 it manages with the support of the Economic Interest Group "*Agence pour la Normalisation et l'Economie de la Connaissance*" (ANEC EIG – Standardization Department). This policy aims 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 standardization technical committees - and to pursue the development of research and education programs in standardization for the construction domain.

This second version of the Standards Analysis of the construction sector consolidates the [first one](#), published in March 2021. It provides a refined categorization of the standardization technical committees related to the construction sector in order to better inform national stakeholders of existing standardization activities and foster their involvement in technical committees relevant to their business.

ILNAS, with the support of ANEC EIG, remains at the service of national stakeholders in order to encourage and assist any initiative related to this topic.

Jean-Marie REIFF, Director
ILNAS

Jean-Philippe HUMBERT, Deputy Director
ILNAS

TABLE OF CONTENTS

Introduction	9
1 Technical Committees related to Construction	11
1.1 Study & Design	15
1.2 Building Construction & Civil Engineering.....	37
1.3 Installation	65
1.4 Completion & Finishing.....	109
1.5 Safety, Machinery & Equipment	121
2 National Participation in Standardization	135
2.1 Participation Statistics in the Construction Sector	135
2.2 National Delegates in the Construction Sector	137
Conclusions	147






INTRODUCTION

Technical standardization is an efficient tool for construction professionals who want to reinforce their knowledge, preserve their know-how and anticipate future good practices. ILNAS (*Institut luxembourgeois de la normalisation, de l'accréditation, de la sécurité et qualité des produits et services*) contributes to its development at national level and actively promotes its use for the benefit of the market. The Institute undertakes several activities in order to develop a network of experts, support the transfer of knowledge to national stakeholders, and strengthen their participation in related technical committees.

This new version of the Standards Analysis of the construction sector offers national stakeholders guidance for a potential future involvement in the standards development process. It consolidates the [first version of the document](#), published in March 2021, to find more background information on technical standards and standardization in general, as well as details on the national standardization context of the construction sector.

Among other updates, a breakdown by topic has been included in order to facilitate the search for technical committees relevant to market players' activities. Moreover, hyperlinks have been added to facilitate the navigation in the document and to provide to the readers an easy access to the latest information related to the technical committees on the websites of the standardization organizations.

The Standards Analysis is based on information provided by the following standardization organizations:

	The International Organization for Standardization (ISO)
	The International Electrotechnical Commission (IEC)
	The European Committee for Standardization (CEN)
	The European Committee for Electrotechnical Standardization (CENELEC)
	<i>Institut luxembourgeois de la normalisation, de l'accréditation, de la sécurité et qualité des produits et services</i> (ILNAS)

The Standards Analysis is organized as follows:


The first chapter is composed of five sections representing the breakdown of the construction sector adopted in this document. Each of them includes all the related technical committees organized by specific topics:

- "Study & Design" with 16 topics,
- "Building Construction & Civil Engineering" with 16 topics,
- "Installation" with 21 topics,
- "Completion & Finishing" with 15 topics,
- "Safety, Machinery & Equipment" with 11 topics.

The second chapter provides figures on the national participation in standardization, and lists detailing the national delegates in standardization in the construction sector and the technical committees in which these national delegates participate.

1 TECHNICAL COMMITTEES RELATED TO CONSTRUCTION



This chapter presents the national, European and international technical committees related to the construction sector, offering a complete picture of technical standardization in this domain. They are presented using tables that summarize the main information related to their area of work. In order to facilitate the identification of relevant technical committees, they are spread out first across five major sections, and then with a more refined approach by trade and/or topic.


↓ Study & Design ↓		
<ul style="list-style-type: none"> ↗ Buildings & Civil Engineering Works ↗ Structural Design ↗ Digital Modelling ↗ Geographic Information ↗ Technical Drawings ↗ Geotechnics ↗ Acoustics ↗ Sustainability & Environment 	<ul style="list-style-type: none"> ↗ Energy Performance ↗ Maintenance & Facility Management ↗ Conformity ↗ Accessibility ↗ Cleanroom technology ↗ Spectator facilities ↗ Crime prevention ↗ Conservation of Cultural Heritage 	
↓ Building Construction & Civil Engineering ↓		
<ul style="list-style-type: none"> ↗ Steel & Aluminum ↗ Welding ↗ Fasteners ↗ Greenhouses ↗ Timber Structures ↗ Cement ↗ Concrete ↗ Masonry - Aggregates - Natural stones 	<ul style="list-style-type: none"> ↗ Earthworks ↗ Geosynthetics ↗ Road Networks ↗ Railway Networks ↗ Water Networks ↗ Gas Networks ↗ Electricity Networks: Overhead Lines ↗ Electricity Networks: Power & Energy 	
↓ Installation ↓		
<ul style="list-style-type: none"> ↗ Piping ↗ Valves, Pumps & Compressors ↗ Cooling & Ventilation Systems ↗ Heating Systems ↗ Gas ↗ Chimneys ↗ Domestic Appliances for Water ↗ Fire Safety ↗ Building Management Systems ↗ Lifts, escalators & moving walks ↗ Wind Energy 	<ul style="list-style-type: none"> ↗ Solar Energy ↗ Lighting ↗ High Voltage ↗ Low Voltage ↗ Electrical Energy Storage Systems ↗ Protection from Lightning & Surges ↗ Electric Cables & Accessories ↗ Power Transformers & Capacitors ↗ Electrical Installations ↗ Communication Cables & Equipment 	
↓ Completion & Finishing ↓		
<ul style="list-style-type: none"> ↗ Wood & Timber ↗ Gypsum ↗ Coatings ↗ Sealing ↗ Sealant ↗ Roof ↗ Doors & Windows ↗ Glass in Building 	<ul style="list-style-type: none"> ↗ Paints & Varnishes ↗ Wallcoverings ↗ Ceramic Tiles ↗ Ceilings ↗ Floor Coverings ↗ Floor Screeds ↗ Surfaces for Sports Areas 	
↓ Safety, Machinery & Equipment ↓		
<ul style="list-style-type: none"> ↗ Personal Protective Equipment ↗ Tools ↗ Work at Height ↗ Cranes ↗ Machinery ↗ Chains, Ropes, Webbing, Slings & Accessories 	<ul style="list-style-type: none"> ↗ Mechanical Vibration & Shock ↗ Live Working ↗ Temporary Works Equipment ↗ Aerial Ropeways, Funicular Ropeways & Surface Lifts ↗ Measuring Equipment for Electrical & Electromagnetic Quantities 	


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)		
	19 Standards	17 Projects	National delegates:	4 
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.			
9	Working Groups under TC			
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 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		
	19 Standards	6 Projects	National delegates:	0
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: <ul style="list-style-type: none"> - 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 6	Framework for object-oriented information exchange			
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			



STUDY & DESIGN

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	16
1.1.2	Structural Design.....	17
1.1.3	Digital Modelling.....	18
1.1.4	Geographic Information.....	19
1.1.5	Technical Drawings.....	20
1.1.6	Geotechnics	22
1.1.7	Acoustics.....	23
1.1.8	Sustainability & Environment.....	24
1.1.9	Energy Performance	28
1.1.10	Maintenance & Facility Management	31
1.1.11	Conformity.....	32
1.1.12	Accessibility.....	33
1.1.13	Spectator Facilities.....	33
1.1.14	Cleanroom Technology	34
1.1.15	Crime Prevention	34
1.1.16	Conservation of Cultural Heritage	35

1.1.1 Buildings & Civil Engineering Works



ISO	ISO/TC 59		Buildings and civil engineering works	
	133 Standards	18 Projects	National delegates: 0	
Scope	<p>Standardization in the field of buildings and civil engineering works, of:</p> <ul style="list-style-type: none"> - 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. <p>Excluded:</p> <ul style="list-style-type: none"> - 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). 			
3	Working Groups under TC			
AG 1	Advisory Group			
AG 2	Climate change adaptation			
WG 4	Resilience of buildings and civil engineering works			
9	Sub-Committees	WG under SC	26	
SC 2	Terminology and harmonization of languages		2	
SC 8 ¹	Sealants		3	
SC 13 ²	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)		8	
SC 14	Design life		3	
SC 15 ³	Framework for the description of housing performance		2	
SC 16 ⁴	Accessibility and usability of the built environment		2	
SC 17 ⁵	Sustainability in buildings and civil engineering works		4	
SC 18	Construction procurement		2	
SC 19	Prefabricated building		0	

¹ SC 8 is developed in the section 1.4.5 – Sealant

² SC 13 is developed in the section 1.1.3 – Digital Modelling


³ SC 15 is developed in the section 1.1.11 – Conformity



⁴ SC 16 is developed in the section 1.1.12 – Accessibility


⁵ 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		
	21 Standards	1 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		WG under SC 4
SC 1	Terminology and symbols		0
SC 2	Reliability of structures		1
SC 3	Loads, forces and other actions		3

	CEN/TC 250 Structural Eurocodes		
	140 Standards	67 Projects	National delegates: 24 
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.		
5	Working Groups under TC		
WG 1	Policy, procedures and links with other standards		
WG 2	Assessment and Retrofitting of Existing Structure		
WG 4	Fiber reinforced polymer structures		
WG 5	Membrane Structures		
WG 6	Robustness		
11	Sub-Committees		WG under SC 60
SC 1	Eurocode 1: Actions on structures		7
SC 2	Eurocode 2: Design of concrete structures		2
SC 3	Eurocode 3: Design of steel structures		21
SC 4	Eurocode 4: Design of composite steel and concrete structures		1
SC 5	Eurocode 5: Design of timber structures		10
SC 6	Eurocode 6: Design of masonry structures		4
SC 7	Eurocode 7: Geotechnical design		1
SC 8	Eurocode 8: Earthquake resistance design of structures		7
SC 9	Eurocode 9: Design of aluminum structures		3
SC 10	EN 1990 Basis of structural design		3
SC 11	Structural Glass		1

	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)		
	19 Standards	17 Projects	National delegates: 4			
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.					
9	Working Groups under TC					
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 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		
	19 Standards	6 Projects	National delegates: 0			
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: <ul style="list-style-type: none"> - 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 6	Framework for object-oriented information exchange					
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		
	90 Standards	23 Projects	National delegates: 0
Scope	<p>Standardization in the field of digital geographic information. Note: 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.</p> <p>These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital / electronic form between different users, systems and locations.</p> <p>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.</p>		
22	Working Groups under TC		
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	Registration Maintenance Group (RMG)		
AHG 5	Automated documentation		
AHG 9	Representing time		
CAG 1	Chair's advisory group		
JWG 11	Joint ISO/TC 211 - ISO/TC 204 WG: GIS-ITS		
WG 1	Framework and reference model		
WG 4	Geospatial services		
WG 6	Imagery		
WG 7	Information communities		
WG 9	Information management		
WG 10	Ubiquitous public access		

	CEN/TC 287 Geographic Information		
	53 Standards	19 Projects	National delegates: 0
Scope	<p>Standardization in the field of digital geographic information for Europe:</p> <p>The committee will produce a structured framework of standards and guidelines, which specify a methodology to define, describe and transfer geographic data and services.</p> <p>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.</p> <p>They will support a spatial data infrastructure at all levels in Europe.</p>		

1.1.5 Technical Drawings



IEC	IEC/TC 3 Documentation, graphical symbols and representations of technical information		
	41 Standards	11 Projects	National delegates: 0
Scope	<p>Standardization in the field of documentation, graphical symbols and representations of technical information, covering</p> <p>1) Rules, principles and methods focusing on machine sensible representation of information. This includes but is not limited to:</p> <ul style="list-style-type: none"> - 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. <p>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.</p> <p>2) Rules, principles and methods focusing on human sensible representation of the information. This includes but is not limited to:</p> <ul style="list-style-type: none"> - presentation of information in documentation, - graphical symbols for use in documentation, - graphical symbols for the human interaction with equipment. <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> - 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. 		
23	Working Groups under TC		
WG 27	Terminology		
WG 28	Intelligent Information Request and Delivery specification - 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 60617	Maintenance of IEC 60617DB		
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 62744	Maintenance of IEC 62744		
MT 81714	Maintenance of the IEC 81714 series		
JWG 16	Maintenance of IEC 82079 series		
JWG 17	Documentation of communication in power utility automation		
JWG 18	Revision of IEC 81355-1 (former IEC 61355-1), to replace the existing MT 61355		
JWG 24	Maintenance of the IEC 81346 series		
JWG 25	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designation - Part 10: Power plants		
JWG 26	IEC 82045 series		
JWG 27	Maintenance of ISO 82079 series		
AG CAG	Chair Advisory Group		
VT 60617	Validation team for IEC 60617 - Graphical symbols for diagrams		
2	Sub-Committees	WG under SC	23
SC 3C	Graphical symbols for use on equipment		6
SC 3D	Classes, Properties and Identification of products - Common Data Dictionary (CDD)		17



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

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

	CLC/SR 3D Product properties and classes and their identification		
	7 Standards	2 Projects	National delegates: 0

	ISO/TC 10 Technical product documentation		
	145 Standards	19 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.		
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9	Working Groups under TC		
CAG	Chairman's Advisory Group		
SG 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	WG under SC	11
SC 1	Basic conventions		3
SC 6	Mechanical engineering documentation		3
SC 8	Construction documentation		2
SC 10	Process plant documentation		3

	CEN/SS F01 Technical Drawings		
	64 Standards	4 Projects	National delegates: 0

	CEN/SS F16 Graphical symbols		
	8 Standards	2 Projects	National delegates: 0



1.1.6 Geotechnics

	ISO/TC 182		Geotechnics	
	57 Standards	8 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 under TC			
WG 2	Monitoring in Geotechnical Engineering			
WG 4	Drilling and sampling methods and groundwater measurements			
WG 5	Geotechnical field vane test			
WG 7	Cone and piezocone penetration tests			
WG 8	Borehole expansion tests			
WG 9	Geotechnical aspects of geophysical methods			
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	
	13 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 under TC			
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	7 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 under TC			
WG 5	Revision of EN 15129			



1.1.7 Acoustics



	ISO/TC 43		Acoustics	
	217 Standards	29 Projects	National delegates:	1 
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.			
4	Working Groups under TC			
AG 1	Advisory panel			
WG 1	Threshold of hearing			
WG 9	Method for calculating loudness level			
WG 10	Hearing aid fitting management			
3	Sub-Committees	WG under SC	32	
SC 1	Noise			19
SC 2	Building acoustics			8
SC 3	Underwater acoustics			5

	CEN/TC 211		Acoustics	
	88 Standards	7 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	
	55 Standards	8 Projects	National delegates:	0
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 under TC			
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:	14 
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		
	12 Standards	4 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.		
4	Working Groups under TC		
WG 1	General principles and terminology		
WG 3	Environmental declaration of products		
WG 4	Environmental performance of buildings		
WG 5	Civil engineering works		


	ISO/TC 205 Building environment design		
	39 Standards	14 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. (...)		
11	Working Groups under TC		
AG 1	Joint advisory group TC 163 - TC 205 – Coordination of ISO 52000 family		
CAG	Chair's advisory group		
WG 1	General principles		
WG 2	Design of energy-efficient buildings		
WG 3	Building Automation and Control System (BACS) Design		
WG 5	Indoor thermal environment		
WG 7	Indoor visual environment		
WG 8	Radiant heating and cooling systems		
WG 9	Heating and cooling systems		
WG 10	Commissioning		
WG 11	Joint ISO/TC 205 - ISO/TC 163 WG: Moisture damage		

	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.		
6	Working Groups under TC		
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		





	CEN/TC 350 Sustainability of construction works		
	10 Standards	8 Projects	National delegates: 7 
Scope (extract)	<p>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). (...)</p>		
6	Working Groups under TC		
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	WG under SC	2
SC 1	Circular Economy in the Construction Sector		2

	ISO/TC 268 Sustainable cities and communities		
	32 Standards	20 Projects	National delegates: 1 
Scope	<p>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.</p>		
7	Working Groups under TC		
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 4	Smart processes and operating models for sustainable communities		
2	Sub-Committees	WG under SC	8
SC 1	Smart community infrastructures		8
SC 2	Sustainable cities and communities - Sustainable mobility and transportation		0

	CEN/TC 465 Sustainable and Smart Cities and Communities		
	0 Standards	0 Projects	National delegates: 0
Scope (extract)	<p>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. (...)</p>		




	IEC/SyC Smart Cities		Electrotechnical aspects of Smart Cities	
	3 Standards	15 Projects	National delegates: 0	
Scope	<p>To foster the development of standards in the field of electrotechnology to help with the integration, interoperability and effectiveness of city systems.</p> <p>Note 1: This will be done:</p> <ul style="list-style-type: none"> 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. <p>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.</p> <p>Note 3: "Cities" refers to any geographically located population.</p>			
14	Working Groups under TC			
WG 1	Terminology			
WG 2	Market Relationship			
WG 3	Reference Architecture			
PT 63152-2	Smart Cities - City Service Continuity against disasters the role of the electrical supply			
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			
JAHG 5	Interdependencies between ICT and Electrotechnology in Smart Cities			
CAG 1	Chair's Advisory Group			
OF 1	Open Forum 1 - Smart Cities Events			

	CEN/CLC/JTC 10		Material efficiency aspects for products in scope of Ecodesign legislation	
	9 Standards	1 Projects	National delegates: 0	
Scope	<p>Material efficiency aspects for products in scope of the Ecodesign Directive 2009/125/EC and its future revisions.</p> <p>Producing generic and horizontal CEN-CENELEC publications covering aspects such as assessment methods, design rules, dematerialization, digitalization and transfer of information on a variety of material efficiency topics, in particular (but not limited to):</p> <ul style="list-style-type: none"> Extending product lifetime Ability to reuse components or recycle materials* from products at End-of-Life Use of reused components and/or recycled materials* in products <p>* Includes coverage of the European Commission defined list of Critical Raw Materials (CRM).</p>			
8	Working Groups under TC			
WG 1	Terminology			
WG 2	Durability			
WG 3	Ability to repair, reuse and upgrade energy-related products			
WG 4	Ability to remanufacture and method for determining the proportion of reused components in products			
WG 5	Ability to recycle and recover energy-related products, recycled material content of energy-related products			
WG 6	Documentation and/or marking regarding information relating to material efficiency of the product			
WG 7	Chairman's Advisory Group			
WG 8	Circular Design			



	ISO/TC 207 Environmental management		
	58 Standards	20 Projects	National delegates: 11
Scope	<p>Standardization in the field of environmental management to address environmental and climate impacts, including related social and economic aspects, in support of sustainable development.</p> <p><u>Excluded</u>: test methods of pollutants, setting limit values and levels of environmental performance, and standardization of products.</p> <p><u>Note 1</u>: 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.</p> <p><u>Note 2</u>: Where appropriate, the ISO/TC 207 works in cooperation with existing committees on subjects that may support environmental management.</p>		
6	Working Groups under TC		
DCCG	Developing Countries Coordination Group		
SLG	Strategic Leadership Group		
STTF	Spanish translation task force		
TCG	Terminology Coordination Group		
TG 1	Sustainable Finance Coordination		
TG 2	Circular economy coordination		
6	Sub-Committees	WG under SC	36
SC 1	Environmental management systems		6
SC 2	Environmental auditing and related environmental investigations		3
SC 3	Environmental labelling		7
SC 4	Environmental performance evaluation		3
SC 5	Life cycle assessment		6
SC 7	Greenhouse gas management and related activities		11

	CEN/SS S26 Environmental management		
	36 Standards	4 Projects	National delegates: 0

	CEN/TC 351 Construction Products - Assessment of release of dangerous substances		
	26 Standards	21 Projects	National delegates: 0
Scope	<p>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.</p>		
5	Working Groups under TC		
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		
	144 Standards	34 Projects	National delegates: 0
Scope (extract)	<p>Standardization in the field of building and civil engineering works:</p> <ul style="list-style-type: none"> - 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; (...) <p>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 (...).</p>		
2	Working Groups under TC		
WG 4	Joint ISO/TC 163 - ISO/TC 205 WG: Energy performance of buildings using holistic approach		
WG 6	Vocabulary for thermal insulation		
3	Sub-Committees	WG under SC	21
SC 1	Test and measurement methods		8
SC 2	Calculation methods		3
SC 3	Thermal insulation products, components and systems		10

	CEN/TC 88 Thermal insulating materials and products		
	66 Standards	29 Projects	National delegates: 0
Scope	<p>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.</p>		
21	Working Groups under TC		
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		



	CEN/TC 89 Thermal performance of buildings and building components		
	75 Standards	25 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: <ul style="list-style-type: none"> - rules for expressing relevant thermal properties and requirements; - calculation and test methods; - input data, including climatic data; - effects of moisture. 		
7	Working Groups under TC		
WG 7	Thermal properties of doors and windows		
WG 8	Thermal test methods		
WG 10	Moisture		
WG 12	Reflective insulation products		
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	2 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. <ol style="list-style-type: none"> 1. Developing standards at overarching EPB level (...) 2. Coordinating the activities of related and specialized TCs (...) 		
4	Working Groups under TC		
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		

	ISO/TC 301 Energy management and energy savings		
	21 Standards	6 Projects	National delegates: 0
Scope	Standardization in the field of energy management and energy savings		
14	Working Groups under TC		
AHG 3	Information on the Use, Challenges and Successes of the ISO 50000 series of standards		
AHG 4	Labor competence		
AHG 6	SBP		
AHG 7	Discussion of ISO 50002		
AHG 9	Development of NWIP for energy efficiency in power plants		
CAG	Chairman 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 2	Metrics and measurement internal to the organization		
WG 16	Zero Net Energy		
WG 17	Energy Audits		




IEC	IEC/SyC Smart Energy		Smart Energy	
	13 Standards	6 Projects	National delegates:	0
Scope	<p>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.</p> <p>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.</p> <p>To liaise and cooperate with the SEG Smart Cities and future SEGs, as well as the future Systems Resource Group.</p>			
7	Working Groups under TC			
WG 2	IEC Smart Energy Development Plan			
WG 5	Methodology and Tools			
WG 6	Generic Smart Grid Requirements			
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			

cen CENELEC	CEN/CLC/JTC 14		Energy management and energy efficiency in the framework of energy transition	
	9 Standards	6 Projects	National delegates:	2
Scope	<p>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:</p> <ul style="list-style-type: none"> - 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 <p>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:</p> <ul style="list-style-type: none"> - Specific technologies or systems activities within the scope of other CEN, CENELEC or Joint CEN-CENELEC TCs, - Environmental issues. 			
3	Working Groups under TC			
WG 1	Energy audits			
WG 4	Energy financial aspects			
WG 5	Guarantees of Origin related to energy			

1.1.10 Maintenance & Facility Management



	CEN/TC 319		Maintenance	
	9 Standards	5 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 under TC			
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	
	5 Standards	6 Projects	National delegates: 0	
Scope	Standardization in the field of facility management			
9	Working Groups under TC			
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			

	CEN/TC 348		Facility Management	
	10 Standards	8 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.			
2	Working Groups under TC			
WG 6	Space measurement in Facility Management			
WG 9	Development of EN 15221-9			



1.1.11 Conformity


	ISO/CASCO		Committee on conformity assessment	
	37 Standards	2 Projects	National delegates:	1
Scope	<p><u>Membership</u> CASCO membership is open to interested member bodies as participating (P) or observer (O) members and to interested correspondent members as observer (O) members.</p> <p><u>Terms of reference</u></p> <ul style="list-style-type: none"> - To study means of assessing the conformity of products, processes, services and management systems to appropriate standards or other technical specifications. - To prepare international guides and International Standards relating to the practice of testing, inspection and certification of products, processes and services, and to the assessment of management systems, testing laboratories, inspection bodies, certification bodies, accreditation bodies and their operation and acceptance. - To promote mutual recognition and acceptance of national and regional conformity assessment systems, and the appropriate use of International Standards for testing, inspection, certification, assessment and related purposes. 			
	10	Working Groups under TC		
CPC	Chairman's Policy and Coordination Group			
IAF/ILAC JSG	IAF-ILAC-ISO Joint Strategic Group			
INetQI	Hosted ISO/CASCO INetQI group			
JWG 58	Joint ISO/CASCO - ISO/TC232 WG: ISO 21030 Requirements for bodies providing audit and certification of educational organizations management systems			
STAR	Strategic Alliance and Regulatory group			
STTF	Spanish translation task force			
TIG	Technical Interface Group			
WG 36	Joint WG ISO/CASCO - ISO/TC 34/SC 17; revision of ISO/TS 22003			
WG 56	Conformity assessment - Code of good practice			
WG 57	Conformity assessment - General requirements for proficiency testing			

	CEN/CLC/JTC 1		Criteria for conformity assessment bodies	
	20 Standards	1 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			

	ILNAS/TC 105		Technical control missions (Stand-by)	
	1 Standards	0 Projects	National delegates:	27
Scope	<p>Technical control missions :</p> <ol style="list-style-type: none"> 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		
	6 Standards	1 Projects	National delegates: 0
Scope	Standardization in the field of buildings, focusing on performance description and requirements, user requirements, and the means to evaluate building and housing solutions, including, but not limited to: <ul style="list-style-type: none"> - Structural safety; - Structural serviceability; - Structural durability; - Fire safety; - Operating energy; - Accessibility and usability; - Sustainability. Excluding the determination of values required for specific purposes.		
2	Working Groups under TC		
WG 6	Sustainable construction		
WG 7	Accessibility and usability		

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 under TC		
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	0 Projects	National delegates: 0
Scope	Development of the standardization deliverables as requested by Mandate/420 Phase II : <ul style="list-style-type: none"> - A European Standard (EN) on functional European accessibility requirements - A Technical Report (TR1) on technical performance criteria - A Technical Report (TR2) on conformity assessment 		

1.1.13 Spectator Facilities

	CEN/TC 315 Spectator facilities		
	7 Standards	5 Projects	National delegates: 0
Scope	<u>General:</u> 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. <u>Specific:</u> <ol style="list-style-type: none"> 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 under TC		
WG 1	Layout criteria		
WG 2	Products		



1.1.14 Cleanroom Technology


	ISO/TC 209 Cleanrooms and associated controlled environments		
	18 Standards	7 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.		
5	Working Groups under TC		
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		

	CEN/TC 243 Cleanroom technology		
	15 Standards	6 Projects	National delegates: 0
Scope	<p>Standardization and classification of controlled environment spaces and fixing of criteria for controlling contamination in such spaces.</p> <p>Guidance on the design, taking into account sources of contamination; air, liquid, materials, equipment and personnel as well as their interactions.</p> <p>Guidance on biocontamination control is included, as are provisions for the control of molecular contamination.</p> <p>Methods of aseptic processing are excluded, as are methods of cleaning and disinfection except with particular reference to inert surfaces in cleanrooms.</p> <p>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.</p>		
1	Working Groups under TC		
WG 5	Biocontamination control		

1.1.15 Crime Prevention

	CEN/TC 325 Crime prevention through building, facility and area design		
	7 Standards	2 Projects	National delegates: 0
Scope	<p>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.</p> <p>The standards will include their area of application, the corresponding strategy, security levels, building and area layout, application of construction elements, roads and pavements.</p> <p>The standards may be applied to new and significantly refurbished buildings, facilities and areas.</p> <p>The standards will not deal with building products and security systems components.</p>		
3	Working Groups under TC		
WG 1	Terminology		
WG 2	Urban planning		
WG 3	Building design		

1.1.16 Conservation of Cultural Heritage

	CEN/TC 346		Conservation of Cultural Heritage	
	35 Standards	10 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 under TC			
WG 1	General methodologies and terminology			
WG 3	Porous inorganic materials constituting cultural heritage			
WG 7	Specifying and measuring Indoor/outdoor climate			
WG 9	Waterlogged wood			
WG 11	Conservation process			
WG 12	Showcases			
WG 14	Monitoring of cultural deposit			
WG 15	Exhibition lighting of cultural heritage			
WG 16	Specification for the management of moveable cultural heritage			



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



1.2 Building Construction & Civil Engineering



1.2.1	Steel & Aluminum.....	38
1.2.2	Welding	39
1.2.3	Fasteners & Structural Bearings	41
1.2.4	Timber Structures.....	42
1.2.5	Cement	42
1.2.6	Concrete	43
1.2.7	Masonry – Aggregates – Natural stones	45
1.2.8	Greenhouses.....	46
1.2.9	Earthworks	47
1.2.10	Geosynthetics	48
1.2.11	Road Networks.....	48
1.2.12	Railway Networks.....	50
1.2.13	Water Networks.....	52
1.2.14	Gas Networks.....	55
1.2.15	Electricity Networks: Overhead Lines.....	56
1.2.16	Electricity Networks: Power & Energy	59






1.2.1 Steel & Aluminum

	ISO/TC 17		Steel	
	322 Standards	31 Projects	National delegates:	1
Scope	Standardization in the field of cast, wrought and cold-formed steel, including technical delivery conditions for steel tubes for pressure purposes. Excluded: <ul style="list-style-type: none"> - 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. 			
3	Working Groups under TC			
AG 0	Advisory group			
AHG 1	Drafting guideline on response to SDGs			
SG 1	Definition of micro-alloy, low-alloy and high-alloy			
13	Sub-Committees		WG under SC	25
SC 1	Methods of determination of chemical composition			4
SC 3	Steels for structural purposes			4
SC 4	Heat treatable and alloy steels			0
SC 7	Methods of testing (other than mechanical tests and chemical analysis)			3
SC 9	Tinplate and blackplate			0
SC 10	Steel for pressure purposes			0
SC 11	Steel castings			0
SC 12	Continuous mill flat rolled products			0
SC 15	Railway rails, rails fasteners, wheels and wheelsets			0
SC 16	Steels for the reinforcement and prestressing of concrete			6
SC 17	Steel wire rod and wire products			7
SC 19	Technical delivery conditions for steel tubes for pressure purposes			1
SC 20	General technical delivery conditions, sampling and mechanical testing methods			0



	CEN/TC 459		ECISS : European Committee for Iron and Steel Standardization	
	387 Standards	82 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 under TC			
WG 1	Steel circular economy			
12	Sub-Committees		WG under SC	47
SC 1	Test methods for steel (other than chemical analysis)			1
SC 2	Methods of chemical analysis for iron and steel			5
SC 3	Structural steels other than reinforcements			9
SC 4	Concrete reinforcing and prestressing steels			6
SC 5	Steels for heat treatment, alloy steels, free-cutting steels and stainless steels			2
SC 6	Wire rod and wires			3
SC 7	Steels for pressure purposes			0
SC 8	Steel sheet and strip for electrical applications			2
SC 9	Coated and uncoated flat products to be used for cold forming			4
SC 10	Steel tubes, and iron and steel fittings			10
SC 11	Steel castings and forgings			2
SC 12	General issues			3





	ISO/TC 167 Steel and aluminium structures		
	2 Standards	6 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.		
1	Working Groups under TC		
WG 3	Execution of steel structures		


	CEN/TC 135 Execution of steel structures and aluminium structures		
	6 Standards	4 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 under TC		
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		
	325 Standards	52 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.		
2	Working Groups under TC		
JAG	IIW – ISO/TC 44 – CEN/TC 121 Coordination Committee		
WG 5	Welding simulation		
12	Sub-Committees	WG under SC	17
SC 3	Welding consumables		0
SC 5	Testing and inspection of welds		3
SC 6	Resistance welding and allied mechanical joining		1
SC 7	Representation and terms		1
SC 8	Equipment for gas welding, cutting and allied processes		1
SC 9	Health and safety		2
SC 10	Quality management in the field of welding		6
SC 11	Qualification requirements for welding and allied processes personnel		3
SC 12	Soldering materials		0
SC 13	Brazing materials and processes		0
SC 14	Welding and brazing in aerospace		0
SC 15	Underwater welding		0



	CEN/TC 121			Welding and allied processes		
	337 Standards	75 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, design of welded joints, qualification and/or education of welding personnel, as well as safety and health. Excluded are electrical arc welding equipment and electrical safety matters related to welding which are the responsibility of CENELEC/TC 26.					
4	Working Groups under TC					
WG 3	Welding consumables					
WG 19	Equipment for gas welding, cutting and allied processes					
WG 20	Brazing					
WG 21	Testing of welds					
1	Sub-Committees				WG under SC	0
SC 4	Quality management in the field of welding					0


	IEC/TC 26			Electric welding		
	28 Standards	2 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 under TC					
WG 1	Safety requirements for electric welding equipment					
WG 5	EMC and EMF requirements for electric welding equipment					


	CLC/TC 26			Electric welding		
	30 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 under TC					
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 (extract)	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. (...)					

1.2.3 Fasteners & Structural Bearings



	ISO/TC 2		Fasteners	
	194 Standards	38 Projects	National delegates: 0	
Scope	<p>Standardization of dimensions, tolerances, mechanical and functional properties, test methods and acceptance procedures of fasteners.</p> <p>The term fastener covers all types of products designed to mechanically connect 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, rivets and hose clamps.</p> <p>Excluded: fasteners for aerospace applications, all special screws, keys, and special fasteners for ball and roller bearings.</p>			
3	Working Groups under TC			
WG 13	Washer and non-threaded fasteners			
WG 17	Stainless steel fasteners			
WG 18	Pre-applied adhesive systems for threaded fasteners			
5	Sub-Committees		WG under SC	0
SC 7	Reference standards			0
SC 11	Fasteners with metric external thread			0
SC 12	Fasteners with metric internal thread			0
SC 13	Fasteners with non-metric thread			0
SC 14	Surface coatings			0

	CEN/TC 185		Fasteners	
	179 Standards	34 Projects	National delegates: 0	
Scope	<p>Standardization in the field of mechanical fasteners, taking cognizance of the ISO standards prepared by ISO/TC 2.</p> <p>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.</p>			
1	Working Groups under TC			
WG 6	Structural bolting			

	CEN/TC 167		Structural bearings	
	12 Standards	0 Projects	National delegates: 0	
Scope	<p>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.</p> <p>Excluded, for example, are: connections between piers and columns obtained by reinforced concrete, welded or bolted connections.</p>			
1	Working Groups under TC			
WG 1	Revision of EN 1337			



1.2.4 Timber Structures



	ISO/TC 165		Timber structures	
	49 Standards	7 Projects	National delegates: 0	
Scope	<p>Standardization concerning structural applications of timber, wood -based panels, other wood based products, and related lignocellulosic fibrous materials including:</p> <ul style="list-style-type: none"> - 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. <p><i>Note:</i> 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.</p>			
5	Working Groups under TC			
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	
	33 Standards	19 Projects	National delegates: 0	
Scope	<p>Preparation of standards for the structural use of timber, covering :</p> <ul style="list-style-type: none"> - 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. 			
6	Working Groups under TC			
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			

1.2.5 Cement


	ISO/TC 74		Cement and lime (<i>Stand-by</i>)	
	7 Standards	0 Projects	National delegates: 0	
Scope	<p>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.</p>			





	CEN/TC 51			Cement and building limes		
	33 Standards	8 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 under TC					
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 (<i>Stand-by</i>)		
	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		
	70 Standards	20 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.					
3	Working Groups under TC					
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				WG under SC	19
SC 1	Test methods for concrete					3
SC 3	Concrete production and execution of concrete structures					3
SC 4	Performance requirements for structural concrete					1
SC 5	Simplified design standard for concrete structures					1
SC 6	Non-traditional reinforcing materials for concrete structures					3
SC 7	Maintenance and repair of concrete structures					4
SC 8	Environmental management for concrete and concrete structures					4





	CEN/TC 104		Concrete and related products	
	160 Standards	24 Projects	National delegates:	3 
Scope	<p>CEN/TC 104 deals with the standardisation of provisions for concrete and related products, in particular with respect to properties and requirements for:</p> <ul style="list-style-type: none"> - 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. <p>Additionally relevant test methods and provisions for the assessment of conformity for the products and procedures mentioned above are standardized.</p> <p>Not covered by the scope of TC 104 are:</p> <ul style="list-style-type: none"> - 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). 			
10	Working Groups under TC			
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			
4	Sub-Committees	WG under SC	9	
SC 1	Concrete - Specification, performance, production and conformity		1	
SC 2	Execution of concrete structures		4	
SC 3	Admixtures for concrete		0	
SC 8	Protection and repairs of concrete structures		4	



	ILNAS/TC 102		Concrete	
	0 Standards	7 Projects	National delegates:	10 
Scope	<p>Creation of the following national normative documents:</p> <ul style="list-style-type: none"> - 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; <p>Creation of additional national annexes in the field of concrete for the following European standards:</p> <ul style="list-style-type: none"> - 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		
	24 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 under TC		
WG 1	Prefabricated Reinforced Components of AAC		
WG 3	Test methods		

	CEN/TC 229 Precast concrete products		
	49 Standards	36 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 under TC		
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		
	58 Standards	2 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 under TC		
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	
	59 Standards	18 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 under TC			
WG 10	Armourstone			
WG 11	Railway ballast			
WG 12	Aggregates from secondary source			
WG 13	Dangerous substances			
5	Sub-Committees		WG under SC	3
SC 1	Aggregates for concrete, mortar and grouts			0
SC 3	Bituminous bound aggregates			0
SC 4	Hydraulic bound and unbound aggregates			0
SC 5	Lightweight aggregates			0
SC 6	Test methods			3

	CEN/TC 246		Natural stones	
	36 Standards	3 Projects	National delegates: 0	
Scope	<p>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.</p> <p>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.</p> <p>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.</p>			
4	Working Groups under TC			
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	
	1 Standards	2 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		
	10 Standards	10 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.		
9	Working Groups under TC		
WG 1	General matters		
WG 2	Soil and rock classification for Earthworks		
WG 3	Construction procedures		
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		

	CEN/TC 321 Explosives for civil uses		
	59 Standards	56 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 of the police are also excluded.		
2	Working Groups under TC		
WG 4	Detonators and relays		
WG 6	Explosives and propellants		

	CEN/TC 451 Water wells and borehole heat exchangers		
	0 Standards	2 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 under TC		
WG 1	Water wells		
WG 2	Borehole heat exchangers		



1.2.10 Geosynthetics



	ISO/TC 221		Geosynthetics	
	45 Standards	10 Projects	National delegates: 2	
Scope	Standardization of all geosynthetic products including geotextiles, geomembranes, geocomposite clay liners and other geosynthetic related products.			
5	Working Groups under TC			
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	
	76 Standards	5 Projects	National delegates: 3	
Scope	Standardization related to geosynthetics; terminology, sampling before testing, identification and marking rules, test methods, requirements related to the intended used.			
6	Working Groups under TC			
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			


1.2.11 Road Networks


	CEN/TC 226		Road equipment	
	49 Standards	25 Projects	National delegates: 0	
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 under TC			
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	
	134 Standards	20 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 under TC			
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 under TC			
WG 02	Road traffic signal systems			

	CEN/TC 336		Bituminous binders	
	55 Standards	18 Projects	National delegates:	0
Scope	Terminology, methods of sampling, standardisation of test methods, classification and specifications for bituminous binders. Group of products covered by standardisation: petroleum refined bitumens, modified bitumens, bituminous emulsions, fluxed and cutback bitumens - Used for paving and industrial applications.			
2	Working Groups under TC			
WG 1	Bituminous binders for paving			
WG 2	Fluxed bitumen and bituminous emulsions			

	CEN/TC 178		Paving units and kerbs	
	11 Standards	0 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 under TC			
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	
	25 Standards	25 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.			
6	Working Groups under TC			
AG 17	Strategic liaison group			
AHG 1	Scopes and terminology			
AHG 7	Migration strategy			
CAG 1	Chairman's Advisory Group			
WG 5	Railway quality management system			
WG 6	Fire protection			
3	Sub-Committees		WG under SC	27
SC 1	Infrastructure			9
SC 2	Rolling stock			12
SC 3	Operations and services			6

	CEN/TC 256		Railway applications	
	250 Standards	153 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.			
12	Working Groups under TC			
WG 1	Fire Protection			
WG 3	Acoustics			
WG 6	Aerodynamics			
WG 7	Ride comfort			
WG 10	Vehicle/Track Interaction			
WG 19	Classification systems and documentation			
WG 32	Gauge			
WG 43	Ground based services			
WG 44	Persons of Reduced Mobility (PRM)			
WG 48	Rolling Stock Maintenance			
WG 51	Advisory Group Labour Health and Safety			
WG 56	Chairman's Advisory Group			
3	Sub-Committees		WG under SC	32
SC 1	Infrastructure			12
SC 2	Rolling stock products			10
SC 3	Rolling Stock Systems			10



IEC	IEC/TC 9 Electrical equipment and systems for railways		
	156 Standards	20 Projects	National delegates: 3 
Scope	<p>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.</p> <p>These standards cover railway networks, metropolitan transport networks (including metros, tramways, trolleybuses and fully automated transport systems) and magnetic levitated transport systems.</p> <p>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.</p> <p>These standards deal with electromechanical and electronic aspects of power components as well as with electronic hardware and software components.</p>		
44	Working Groups under TC		
ahG 17	Transducers for rolling stock		
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 23	Protection against corrosion by stray current from direct current		
ahG 24	Durability		
ahG 26	Railway applications – Coordination requirements and energy-saving performance evaluation for Energy Feedback Systems in DC Traction Power Systems		
ahG 27	Technical criteria for the co-ordinations in neutral-section passing system for train		
ahG 28	Safe transmission protocol		
ahG 29	Interoperability and safety of dynamic wireless power transfer (WPT) for railways		
AG CAG	Chairman's Advisory Group		
AG SLG	IEC UIC SLG (Strategic Liaison Group)		
AG SLG SG Trainet	IEC UIC SLG Subgroup Trainet		
AG SLG SG Multimedia	IEC UIC SLG Subgroup Multimedia		
AG SLG SG OCL	IEC UIC SLG Subgroup Overhead Contact Lines		
JWG 51	Fuel cell systems for railway applications		
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 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 62499	Railway applications - Current collection systems - Pantographs, testing methods for carbon contact strips		
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		
MT 63076	Railway applications – Rolling stock – Electric equipment in trolley buses – Safety requirements and current collection systems		
PT 318	Railway applications – Current collection systems – Validation of simulation of the dynamic interaction between pantograph and overhead contact line		
PT 633	Railway applications - Fixed installations – Protection principles for AC and DC electric traction power supply systems		
PT 641	Railway applications - Fixed installations - Requirements for the validation of simulation tools used for the design of traction power supply systems		
PT 668	Railway applications – Signalling and control systems for non UGTMS Urban Rail systems		
PT 62590-3-1	Railway applications – Fixed installations – Electronic power converters for substations – Part 3-1: AC traction applications – Electronic power compensators		
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 63190	Railway applications – Fixed installations – Electric traction – Copper and copper alloy messenger wires for overhead contact line systems		
PT 63341-2	Railway applications - Rolling stock - Fuel cell systems for propulsion - Part 2: Hydrogen storage system		
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		






GENELEC	CLC/TC 9X		Electrical and electronic applications for railways	
	220 Standards	30 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.			
19	Working Groups under TC			
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 15-06	ICT for Railways - 6th 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			
3	Sub-Committees		WG under SC	28
SC 9XA	Communication, signalling and processing systems			6
SC 9XB	Electrical, electronic and electromechanical material on board rolling stock, including associated software			11
SC 9XC	Electric supply and earthing systems for public transport equipment and ancillary apparatus (Fixed installations)			11

1.2.13 Water Networks


cen	CEN/TC 164		Water supply	
	197 Standards	88 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 under TC			
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	
	29 Standards	12 Projects	National delegates: 0	
Scope	<p>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.</p> <p>Excluded:</p> <ul style="list-style-type: none"> - 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 under TC			
CAG	Chair Advisory Group			
CTG 1	Communications Task Group			
WG 2	Terminology			
WG 3	Water systems for biopharma industries			
4	Sub-Committees		WG under SC	13
SC 1	Treated wastewater reuse for irrigation			1
SC 2	Water reuse in urban areas			6
SC 3	Risk and performance evaluation of water reuse systems			1
SC 4	Industrial water reuse			5

	CEN/TC 165		Waste water engineering	
	103 Standards	27 Projects	National delegates: 1 	
Scope	<p>Functional standards, standards for performance and installation in the field of wastewater engineering for systems and components.</p> <p>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).</p> <p>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.</p> <p>*) flushing cisterns, urinals, kitchen sinks, basins bidets, baths, (including whirlpool baths) and shower trays, see TC 163 Resolution 2 (London), WG 3 and 4.</p>			
16	Working Groups under TC			
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 92		Water meters	
	6 Standards	3 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 under TC			
WG 2	General requirements			


	CEN/TC 107		Prefabricated district heating and district cooling pipe system	
	20 Standards	17 Projects	National delegates: 0	
Scope	Standardization of: <ul style="list-style-type: none"> - prefabricated insulated district heating and district cooling pipe systems including pipes, joints, fittings, valves, expansion cushions and surveillance systems, and - design and installation of prefabricated insulated pipe systems for district heating and district cooling. 			
10	Working Groups under TC			
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			


	CEN/TC 203		Cast iron pipes, fittings and their joints	
	17 Standards	9 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.			
6	Working Groups under TC			
WG 1	Water pipelines under pressure			
WG 3	Soil & Drain pipelines			
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			

1.2.14 Gas Networks





	CEN/TC 234 Gas infrastructure		
	19 Standards	10 Projects	National delegates: 0
Scope	I) Standardisation of functional requirements in the field of gas infrastructure* from the input of gas into the on-shore transmission network up to the inlet connection of gas appliances; II) Determination and coordination of the gas infrastructure aspects in the technical work dealt with by other CEN/TCs and any other bodies, whether or not reporting to the Sector Forum Gas Infrastructure; III) To act as a focus for standardisation issues in the field of gas infrastructure. *including transmission, distribution, storage, compression, regulation and metering, installation, injection of non-conventional gases, gas quality issues and others.		
14	Working Groups under TC		
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	1 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 under TC		
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	2 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 under TC		
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		
	61 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 under TC		
WG 1	EN 437		
WG 2	Emission measurements		

	CEN/TC 282 Installation and equipment for LNG		
	15 Standards	1 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 under TC		
WG 5	Design of onshore installations		

1.2.15 Electricity Networks: Overhead Lines

	IEC/TC 7 Overhead electrical conductors		
	17 Standards	3 Projects	National delegates: 0
Scope	<p>To prepare International Standards and Specifications for fabrication and utilization of overhead electrical conductors, including:</p> <ul style="list-style-type: none"> - 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, <p>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.</p>		
6	Working Groups under TC		
MT 1	Aluminium and aluminium alloy with and without steel or alternative reinforcement stranded conductors		
PT 61597	Maintenance of IEC 61597/TR		
PT 62641	To prepare IEC 62641 Ed. 1.0		
PT 62818	IEC 62818		
PT 63089	Development of IEC 63089/Ed1		
PT 63248	To prepare and develop IEC 63248		

	CLC/BTTF 129-1 Thermal resistant aluminium alloy wire for overhead line conductor		
	1 Standards	0 Projects	National delegates: 0
Scope	To revise prEN 62004:2006 "Thermal resistant aluminium alloy wire for overhead line conductor"		



GENELEC	CLC/TC 7X Overhead electrical conductors		
	16 Standards	5 Projects	National delegates: 0
Scope	Preparation and maintenance of European standards regarding fabrication, test methods and utilization of: <ul style="list-style-type: none"> - 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 under TC		
WG 01	Conductors for Overhead Lines - Characteristics of Greases (Revision of EN 50326)		

IEC	IEC/TC 11 Overhead lines		
	14 Standards	2 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.		
4	Working Groups under TC		
JWG 13	IEC 61284 - Requirements and tests for fittings		
WG 14	Requirements and tests for aeronautical warning balls		
MT 1	Maintenance of TC 11 documents		
MT 2	Maintenance of IEC 466 Parts		

GENELEC	CLC/TC 11 Overhead electrical lines exceeding 1 kV a.c. (1,5 kV d.c.)		
	29 Standards	2 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 under TC		
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		

GENELEC	CLC/BTTF 132-1 Aluminium conductors steel supported (ACSS type) for overhead electrical lines		
	1 Standards	0 Projects	National delegates: 0
Scope	To handle the VILAMOURA notification BT/ES0023/NOT under Spanish convenorship with participation of AT, BE, DE, FR and IT NCs		



IEC	IEC/TC 122 UHV AC transmission systems		
	8 Standards	1 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.		
3	Working Groups under TC		
WG 1	System design		
WG 2	Substation and Transmission Line Design		
WG 3	Commissioning		

IEC	IEC/TC 36 Insulators		
	57 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 under TC		
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	WG under SC	5
SC 36A	Insulated bushings		5

GENELEC	CLC/SR 36 Insulators		
	39 Standards	7 Projects	National delegates: 0

GENELEC	CLC/TC 36A Insulated bushings		
	17 Standards	2 Projects	National delegates: 0
Scope	To prepare harmonized standards for bushings for use in electrical apparatus, transformers and installations.		
3	Working Groups under TC		
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		
	21 Standards	45 Projects	National delegates: 0
Scope	<p>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.</p> <p>This scope includes, but is not limited to, standardization in the field of:</p> <ul style="list-style-type: none"> • 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). <p>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.</p> <p>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.</p> <p>TC 8 cooperates also with several organizations active in the field of electricity supply such as CIGRE, CIRED, IEEE, AFSEC, IEA.</p>		
9	Working Groups under TC		
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 resources 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		
3	Sub-Committees	WG under SC	18
SC 8A	Grid Integration of Renewable Energy Generation		8
SC 8B	Decentralized electrical energy systems		7
SC 8C	Network Management in Interconnected Electric Power Systems		3


GENELEC	CLC/TC 8X System aspects of electrical energy supply		
	26 Standards	6 Projects	National delegates: 0
Scope	<p>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.</p> <p>TC8X also covers High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV.</p>		
3	Working Groups under TC		
WG 01	Physical characteristics of electrical energy (former BTTF 68-6)		
WG 02	Requirements for connection of generators to distribution networks		
WG 03	System aspects for HVDC grid		





IEC	IEC/TC 57 Power systems management and associated information exchange		
	224 Standards	35 Projects	National delegates: 0
Scope	<p>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.</p> <p>Note 1: Standards prepared by other technical committees of the IEC and organizations such as ITU and ISO shall be used where applicable.</p> <p>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.</p> <p>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.</p>		
14	Working Groups under TC		
AG 22	Advisory Group on strategic developments and technological, operational and organizational matters for TC57		
AG 23	Chair Advisory Group		
JWG 24	IIoT and digital twin applications in power systems management linked to ISO/IEC JTC 1/SC 41		
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		

GENELEC	CLC/TC 57 Power systems management and associated information exchange		
	123 Standards	21 Projects	National delegates: 0
Scope	<p>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.</p> <p>NOTE 1: Standards prepared by other technical committees of the IEC and organizations such as ITU and ISO shall be used where applicable.</p> <p>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.</p> <p>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</p>		





	IEC/TC 13 Electrical energy measurement and control		
	75 Standards	13 Projects	National delegates: 0
Scope	<p>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.</p> <p>Excluded: Standardization for the interface of metering equipment for interconnection lines and industrial consumers and producers (covered by TC 57).</p>		
12	Working Groups under TC		
WG 11	Electricity metering equipment		
WG 14	Data exchange for meter reading, tariff and load control		
WG 15	Smart Metering Functions and Processes		
JWG 16	Mapping between the common information model CIM and DLMS/COSEM data models and message profiles linked to TC 57		
MT 62056-3-1	Electricity metering data exchange - The DLMS/COSEM suite - Part 3-1: Use of local area networks on twisted pair with carrier signalling		
PT 62053-41	62053-41		
PT 62056-7-5	Electricity metering - Data exchange for meter reading, tariff and load control - part 21		
PT 62056-8-20	Electricity metering data exchange - The DLMS/COSEM Suite - Part 8-80: RF Mesh Communication Profile		
PT 62056-8-6	Electricity metering data exchange - The DLMS/COSEM SUITE - Part 8-6: DMT PLC profile for neighbourhood networks		
PT 62056-9-1	Electricity metering data exchange - The DLMS/COSEM SUITE - Part 9-1: Communication Profile using web-services to access a COSEM Server via a COSEM Access Service (CAS)		
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)		

	CLC/TC 13 Electrical energy measurement and control		
	80 Standards	15 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p>		
1	Working Groups under TC		
WG 01	Electricity meters for active energy of class a, b and c		

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



	IEC/TC 22		
	Power electronic systems and equipment		
	134 Standards	25 Projects	National delegates: 0
Scope	<p>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.</p> <p>Note 1.- Components which are comprised within the scope include electronic devices.</p> <p>Note 2.- The scope does not include telecommunications apparatus other than power supplies to such apparatus.</p> <p>Group Safety Function: Power electronic converter systems and equipment for solar, wind, tidal, wave, fuel cell or similar energy sources.</p>		
6	Working Groups under TC		
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	WG under SC	45
SC 22E	Stabilized power supplies		3
SC 22F	Power electronics for electrical transmission and distribution systems		25
SC 22G	Adjustable speed electric power drive systems (PDS)		10
SC 22H	Uninterruptible power systems (UPS)		7

	CLC/TC 22X		
	Power electronics		
	94 Standards	18 Projects	National delegates: 0
Scope	<p>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.</p> <p>The following are excluded:</p> <ul style="list-style-type: none"> - converters for rolling stock; - converters and charging equipment for electrical vehicles; - emitters for telecommunication; - dimmers for lighting. 		
3	Working Groups under TC		
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	66
1.3.2	Valves, Pumps & Compressors.....	69
1.3.3	Cooling & Ventilation Systems	70
1.3.4	Heating Systems	72
1.3.5	Gas	75
1.3.6	Chimneys	76
1.3.7	Domestic Appliances for Water	76
1.3.8	Sanitary Appliances	77
1.3.9	Fire Safety.....	77
1.3.10	Building Management Systems.....	80
1.3.11	Lifts, escalators and moving walks.....	82
1.3.12	Lighting	83
1.3.13	Solar Energy	86
1.3.14	Wind Energy.....	88
1.3.15	High Voltage.....	90
1.3.16	Low Voltage	92
1.3.17	Electrical Energy Storage Systems	93
1.3.18	Protection from Lightning & Surges.....	94
1.3.19	Electric Cables & Electrical Accessories	95
1.3.20	Power Transformers & Capacitors	99
1.3.21	Electrical Installations.....	100
1.3.22	Communication Cables & Equipments.....	105




1.3.1 Piping


	ISO/TC 5		Ferrous metal pipes and metallic fittings	
	60 Standards	12 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 : <ul style="list-style-type: none"> • 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		WG under SC	9
SC 1	Steel tubes			0
SC 2	Cast iron pipes, fittings and their joints			8
SC 5	Threaded fittings, solder fittings, welding fittings, pipe threads, thread gauges			0
SC 10	Metallic flanges and their joints			1
SC 11	Metal hoses and expansion joints			0

	CEN/TC 342		Metal hoses, hose assemblies, bellows and expansion joints	
	12 Standards	1 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 under TC			
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	
	343 Standards	48 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 under TC			
AG 0	Advisory group			
8	Sub-Committees		WG under SC	28
SC 1	Plastics pipes and fittings for soil, waste and drainage (including land drainage)			3
SC 2	Plastics pipes and fittings for water supplies			3
SC 3	Plastics pipes and fittings for industrial applications			3
SC 4	Plastics pipes and fittings for the supply of gaseous fuels			4
SC 5	General properties of pipes, fittings and valves of plastic materials and their accessories - Test methods and basic specifications			7
SC 6	Reinforced plastics pipes and fittings for all applications			4
SC 7	Valves and auxiliary equipment of plastics materials			0
SC 8	Rehabilitation of pipeline systems			4





	CEN/TC 155		Plastics piping systems and ducting systems	
	244 Standards	41 Projects	National delegates: 0	
Scope	Standardization of requirements and test methods for geometrical, chemical, physical and other characteristics of components, joints and systems; <ul style="list-style-type: none"> - 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). 			
19	Working Groups under TC			
WG 1	Installation outside building structures of flexible piping systems and rainwater infiltration and storage/attenuation systems			
WG 6	PVC piping systems for non-pressure soil and waste discharge, non-pressure rainwater discharge and solid wall non-pressure underground drainage and sewerage.			
WG 8	Systems for water supply and pressure drainage and sewerage - PVC (solid wall)			
WG 10	Systems of polyolefin material for soil & waste discharge and non-pressure drainage and sewerage			
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			

	CEN/TC 208		Elastomeric seals for joints in pipework and pipelines	
	14 Standards	2 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 under TC			
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		
	67 Standards	14 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 under TC		
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		
	32 Standards	11 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"; <ul style="list-style-type: none"> - 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 under TC		
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		
	21 Standards	11 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: <ul style="list-style-type: none"> - 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 under TC		
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	8 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 : <ul style="list-style-type: none"> - 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. 			
6	Working Groups under TC			
WG 1	Valve actuators and valve actuators attachments			
WG 5	Fugitive emissions			
WG 12	Isolating valves for low-temperature applications			
WG 14	Fire-type testing			
WG 15	Automatic steam traps			
WG 16	Valve actuation			

	CEN/TC 69		Industrial valves	
	83 Standards	19 Projects	National delegates: 1 	
Scope	The standardization of valves for all industrial applications and for all types of fluids, including : <ul style="list-style-type: none"> - 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 under TC			
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	
	44 Standards	2 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.			
5	Working Groups under TC			
WG 1	Water pumps efficiency			
WG 2	Circulation pumps			
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	0 Projects	National delegates: 0
Scope	<p>Standardization in the field of compressors and vacuum pumps, portable and stationary, for all compressible gases, and their systems.</p> <p>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).</p>		


1.3.3 Cooling & Ventilation Systems

	ISO/TC 86 Refrigeration and air-conditioning		
	49 Standards	15 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p>		
5	Sub-Committees	WG under SC	15
SC 1	Safety and environmental requirements for refrigerating systems		1
SC 4	Testing and rating of refrigerant compressors		0
SC 6	Testing and rating of air-conditioners and heat pumps		5
SC 7	Testing and rating of commercial refrigerated display cabinets		3
SC 8	Refrigerants and refrigeration lubricants		6

	CEN/TC 44 Commercial and Professional Refrigerating Appliances and Systems, Performance and Energy Consumption		
	13 Standards	5 Projects	National delegates: 0
Scope	<p>Standardization of Appliances and Systems for refrigeration for preparation, catering retail and wholesale of food and beverage related products such as:</p> <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> • performance requirements and related test methods; • requirements and test methods for determination of energy consumption; <p>Industrial scale production plants are excluded. Condensing Units and Chillers appliances are excluded. Safety and Environmental matters are excluded.</p>		
6	Working Groups under TC		
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		
	16 Standards	8 Projects	National delegates: 0
Scope	<p>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.</p> <p>Performance of Appliances and Systems for refrigeration for preparation, catering retail and wholesale of food and beverage related products are excluded.</p> <p>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.</p>		
7	Working Groups under TC		
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		
WG 12	Flammable Refrigerants Standardization Request M/555		

	CEN/TC 156 Ventilation for buildings		
	75 Standards	13 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.		
15	Working Groups under TC		
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		



1.3.4 Heating Systems


	CEN/TC 57		Central heating boilers	
	11 Standards	3 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.			
9	Working Groups under TC			
WG 1	Central heating boilers for solid fuels			
WG 2	Requirements for efficiency and emission and test methods for central heating boilers			
WG 3	Oilfired air heaters			
WG 4	Low pressure boilers			
WG 5	Heating boilers for fuel oil			
WG 6	Airborne noise emissions			
WG 7	Pellet burners			
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	
	16 Standards	16 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: <ul style="list-style-type: none"> - mechanical controls other than gas controls - devices for transmission and distribution equipment 			
5	Working Groups under TC			
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	
	14 Standards	10 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. : <ul style="list-style-type: none"> - 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 under TC			
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		
	28 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 under TC		
WG 1	Water-tube boilers		
WG 2	Shell boilers		

	CEN/TC 295 Residential solid fuel burning appliances		
	23 Standards	10 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p> <p>The standardization of test fuels and test methods for the assessment of the suitability of fuels for the various appliance types.</p>		
6	Working Groups under TC		
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		
	2 Standards	0 Projects	National delegates: 0
Scope	<p>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).</p> <p>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.</p>		
2	Working Groups under TC		
WG 1	Oil stoves with vaporizing burners		
WG 2	Fireplaces for Ethanol/Gel		

	CEN/TC 48 Domestic gas-fired water heaters		
	2 Standards	1 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 under TC		
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 under TC		
WG 3	Chairman's Advisory Group		


	CEN/TC 180 Decentralized gas heating		
	5 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 under TC		
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		
	43 Standards	13 Projects	National delegates: 0
Scope	<p>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:</p> <ul style="list-style-type: none"> - 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. <p>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.</p> <p>Not covered are:</p> <ul style="list-style-type: none"> - 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 under TC		
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		
	16 Standards	13 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 under TC		
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 under TC		
WG 1	Revision of existing standards		

	CLC/TC 216 Gas detectors		
	17 Standards	3 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.		
10	Working Groups under TC		
JWG 09	TS 50612 (JWG with CEN/TC 109)		
WG 05	Detectors in car parks and tunnels		
WG 09	EN 50291-1:201X		
WG 10	Revision of EN 50244:2000		
WG 11	EMC levels in 50194-2 and 50291-2		
WG 12	Electric apparatus used for detection and concentration measurement of refrigerant gases or SF6 - Performance requirements and test methods		
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		
WG 16	Working Group for the revision of EN 50292		



1.3.6 Chimneys

	CEN/TC 166		Chimneys	
	34 Standards	9 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 under TC			
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		WG under SC	5
SC 2	Chimneys and their components with inner linings of metal			5

	CEN/TC 297		Free-standing industrial chimneys	
	9 Standards	5 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	
	8 Standards	1 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 under TC			
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	
	30 Standards	3 Projects	National delegates: 0	
Scope	<p>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.</p> <p>To establish physical and hygiene characteristics, to establish standards on connecting dimensions and to establish tests on the material used in manufacturing sanitary appliances.</p> <p>This Committee is responsible for traps where they are an integral part of the appliances.</p>			
2	Working Groups under TC			
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	
	154 Standards	28 Projects	National delegates: 0	
Scope	<p>Standardization of the methods of assessing</p> <ul style="list-style-type: none"> - fire hazards and fire risk to life and to property; - the contribution of design, materials, building materials, products and components to fire safety <p>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.</p> <p>Excluded:</p> <ul style="list-style-type: none"> - materials and equipments already covered by other technical committees; - fields covered by other ISO and IEC committees. 			
6	Working Groups under TC			
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	WG under SC	27	
SC 1	Fire initiation and growth		5	
SC 2	Fire containment		8	
SC 3	Fire threat to people and environment		5	
SC 4	Fire safety engineering		9	






	ISO/TC 21 Equipment for fire protection and fire fighting		
	95 Standards	10 Projects	National delegates: 1 
Scope	<p>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.</p> <p>Approval of advisory documents relating to the general principles and application of equipment and apparatus for fire protection and fire fighting.</p> <p>Excluded: protective clothing dealt with by ISO / TC 94.</p>		
6	Sub-Committees	WG under SC	17
SC 2	Manually transportable fire extinguishers		0
SC 3	Fire detection and alarm systems		8
SC 5	Fixed firefighting systems using water		3
SC 6	Foam and powder media and firefighting systems using foam and powder		3
SC 8	Gaseous media and firefighting systems using gas		3
SC 11	Smoke and heat control systems and components		0

	CEN/CLC/JTC 4 Services for fire safety and security systems		
	2 Standards	0 Projects	National delegates: 0
Scope	<p>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*.</p> <p>* 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.</p>		
1	Working Groups under TC		
WG 1	Remote Services for fire safety and security systems		

	CEN/TC 127 Fire safety in buildings		
	79 Standards	38 Projects	National delegates: 0
Scope	<ol style="list-style-type: none"> 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 under TC		
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	15 Projects	National delegates: 0
Scope	<p>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:</p> <ul style="list-style-type: none"> - 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. 		
20	Working Groups under TC		
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		
	76 Standards	44 Projects	National delegates: 3 
Scope	<p>Standardization in the field of:</p> <ul style="list-style-type: none"> - 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 under TC		
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		WG under SC 8
SC 1	Smoke and heat control systems and components		8

1.3.10 Building Management Systems





INSTALLATION

	IEC/TC 72		Automatic electrical controls	
	40 Standards	4 Projects	National delegates: 0	
Scope	<p>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:</p> <ol style="list-style-type: none"> 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. 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. Non-automatic control devices when such are associated with automatic control devices. 			
12	Working Groups under TC			
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			

	CLC/TC 72		Automatic electrical controls	
	62 Standards	9 Projects	National delegates: 0	
Scope	<p>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:</p> <ol style="list-style-type: none"> 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. 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. Non-automatic control devices when such are associated with automatic control devices. 			
2	Working Groups under TC			
WG 03	Updating EN 60730 series for the emc directive			
WG 04	Editing Committee			




	CEN/TC 247 Building Automation, Controls and Building Management		
	35 Standards	8 Projects	National delegates: 0
Scope	<p>Standardisation of building automation, controls and building management systems and services for residential and non-residential buildings.</p> <p>These standards include the definitions, requirements, functionality and test methods of building automation products and systems for automatic control of building services installations.</p> <p>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.</p> <p>Excluded from this scope are areas of building automation which are under the responsibility of other CEN/CENELEC TC's.</p>		
2	Working Groups under TC		
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		
	56 Standards	7 Projects	National delegates: 0
Scope	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> - 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. <p>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.</p> <p>The standards cover:</p> <ul style="list-style-type: none"> - 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. <p>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).</p> <p>* ISO/TC 21/SC 3 is in charge of the production of standards for "Fire detection and alarm systems".</p>		
5	Working Groups under TC		
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		





GENELEC	CLC/TC 79		Alarm systems	
	103 Standards	10 Projects	National delegates: 0	
Scope	<p>To prepare harmonized standards for detection, alarm and monitoring systems for protection of persons and property, and for elements used in these systems.</p> <p>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.</p> <p>The standards shall specify conformity tests.</p>			
16	Working Groups under TC			
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 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	
	41 Standards	11 Projects	National delegates: 1 	
Scope	<p>Standardization of all aspects, including safety, of lifts, service lifts, escalators, passenger conveyors and similar apparatus.</p> <p>Excluded: continuous mechanical handling equipment and lifts in mines.</p>			
9	Working Groups under TC			
AHG 1	New technologies			
WG 2	Guide rails			
WG 4	Safety requirements and risk assessment			
WG 5	Escalators and moving walks			
WG 6	Lift installation			
WG 8	Electrical requirements			
WG 10	Energy efficiency			
WG 11	Methodology for the improvement of safety of existing passenger and goods passenger lifts			
WG 12	Cybersecurity			





	CEN/TC 10			Lifts, escalators and moving walks		
	38 Standards	17 Projects	National delegates:	1		
Scope	Establishment of safety rules for the construction and installation: <ul style="list-style-type: none"> - of lifts and service lifts; - of escalators and passenger conveyors. 					
11	Working Groups under TC					
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			WG under SC	4	
SC 1	Building hoists				4	


1.3.12 Lighting

	ISO/CIE			International Commission on Illumination		
	13 Standards	5 Projects	National delegates:	0		
Scope	<p>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.</p> <p>The objectives of the CIE are</p> <ul style="list-style-type: none"> - 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. <p>Within these objectives, light and lighting embrace such fundamental subjects as vision, photometry and colorimetry, involving natural 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.</p> <p>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 primary source of internationally accepted and agreed data, which can be taken, essentially unaltered, into universal standard systems.</p> <p>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.</p> <p>Further information about the CIE can be found on the CIE Web site.</p>					





	ISO/TC 274		
	Light and lighting		
	8 Standards	6 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.		
6	Working Groups under TC		
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 4	Integrative lighting (joint working group with CIE-JTC 14)		
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		
	26 Standards	9 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.		
11	Working Groups under TC		
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		


	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 under TC		
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 34		Lighting	
	584 Standards	56 Projects	National delegates:	0
Scope	<p>To prepare, review and maintain international standards and related IEC deliverables regarding safety, performance and compatibility specifications for:</p> <ul style="list-style-type: none"> • 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) <p>Compatibility specifications may include requirements necessary for coexistence, interoperability and interchangeability between components in a lighting system.</p> <p>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.</p> <p>For lighting systems within building premises, TC 34 is responsible for light sources, luminaires, control gear, dedicated protocols, and certain aspects of dedicated networks.</p> <p>Details of the work on control devices and lighting systems are currently under consideration in SEG 9/WG 5 "Advisory group on lighting systems".</p> <p>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.</p>			
13	Working Groups under TC			
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			
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	WG under SC	13	
SC 34A	Electric light sources		4	
SC 34B	Lamp caps and holders		3	
SC 34C	Auxiliaries for lamps		3	
SC 34D	Luminaires		3	


	CLC/TC 34		Lighting	
	463 Standards	78 Projects	National delegates:	0
Scope	<p>To prepare European standards based on concluded International Standards in the field of:</p> <ul style="list-style-type: none"> - electrical light sources including lamps - lamp caps and holders - lamp control gear - luminaires <p>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.</p> <p>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.</p> <p>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</p>			
1	Working Groups under TC			
WG 01	to revise EN 50172:2004			




	IEC/TC 97 Electrical installations for lighting and beaconing of aerodromes		
	8 Standards	4 Projects	National delegates: 0
Scope	<p>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.</p> <p>The activity will not cover:</p> <ul style="list-style-type: none"> - 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. <p>Note: Operational requirements for aeronautical ground lights are specified in Annex 14 to the Convention on International Civil Aviation.</p>		
5	Working Groups under TC		
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		


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


1.3.13 Solar Energy

	ISO/TC 180 Solar energy		
	19 Standards	7 Projects	National delegates: 0
Scope	<p>Standardization in the field of solar energy utilization in space and water heating, cooling, industrial process heating and air conditioning.</p> <p>This includes developing standards on the instrumentation and procedures used for measuring solar energy and solar measurement.</p>		
4	Working Groups under TC		
AHG 1	Measurement of CO2		
WG 1	Nomenclature		
WG 3	Collector components and materials		
WG 4	Solar collectors		
2	Sub-Committees	WG under SC	4
SC 1	Climate - Measurement and data		3
SC 4	Systems - Thermal performance, reliability and durability		1



	IEC/TC 82 Solar photovoltaic energy systems		
	178 Standards	65 Projects	National delegates: 0
Scope	<p>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.</p> <p>NOTE: It is recognized that there is some common interest between TC 47 and TC 82, therefore these two Committees shall maintain liaison.</p>		
11	Working Groups under TC		
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		
PT 63092	Building Integrated Photovoltaics (BIPV)		
JWG 1	Photovoltaic off grid systems, including decentralized rural electrification and hybrid systems linked to TC 88		
JWG 11	Building-Integrated Photovoltaics (BIPV) linked to ISO/TC 160/SC 1		

	CLC/TC 82 Solar photovoltaic energy systems		
	112 Standards	37 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p>		
2	Working Groups under TC		
WG 01	Wafers, cells and modules		
WG 02	Bos components and systems		

	CEN/TC 312 Thermal solar systems and components		
	13 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.		
3	Working Groups under TC		
WG 1	Solar collectors		
WG 2	Factory made systems		
WG 3	Thermal solar systems and components; Custom built systems		



IEC	IEC/TC 117 Solar thermal electric plants		
	7 Standards	9 Projects	National delegates: 0
Scope	<p>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.</p> <p>The standards would cover all of the current different types of systems in the STE field, as follows:</p> <ul style="list-style-type: none"> - Parabolic trough; - Solar tower; - Linear Fresnel; - Dish; - Thermal storage. <p>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.</p> <p>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.</p>		
11	Working Groups under TC		
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 62862-3-1	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 62862-5-2	Solar thermal electric plants - Part 5-2: Linear Fresnel systems - General requirements and test methods for linear Fresnel collectors		
MT 1	Terminology		

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

1.3.14 Wind Energy


CENELEC	CLC/TC 88 Wind turbines		
	48 Standards	20 Projects	National delegates: 0
Scope	<p>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.</p>		




IEC	IEC/TC 88		
	Wind energy generation systems		
	45 Standards	34 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p>		
33	Working Groups under TC		
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		
ahG 1	Terminology in the field of wind turbines		
JWG 1	Wind turbine gearboxes		
JWG 25	Communications for monitoring and control of wind power 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 11	Acoustic noise measurement technique		
MT 12-1	Wind turbine power performance testing		
MT 13	Measurement of mechanical loads		
MT 23	Full-scale structural testing of rotor blades		
MT 24	Lightning protection for wind turbines		
PT 61400-50-3	Wind energy generation systems - Part 50-3: Use of nacelle mounted lidars for wind measurements		
PT 61400-28-2	Decommissioning and preparation for recycling		
PT 61400-31	Wind energy generation systems - Part 31: Siting Risk Assessment		
PT 61400-50-4	Wind energy generation systems - Part 50-4: Use of floating lidars for wind measurements		
PT 61400-9	Wind energy generation systems - Part 9: Probabilistic design measures for wind turbines		
PT 61400-29	Marking and lighting of wind turbines		
PT 61400-11-2	Wind energy generation systems - Part 11-2: Measurement of wind turbine noise characteristics in receptor position		
PT 61400-8	Wind energy generation systems - Part 8: Design of wind turbine structural components		
PT 61400-12-4	Power performance verification of electricity producing wind turbines based on numerical site calibration		
PT 61400-30	Wind turbines – Part 30: Safety of Wind Turbine Generator Systems (WTGs) - General principles for design		
PT 61400-40	Electromagnetic Compatibility (EMC) - Requirements and test methods		
PT 61400-7	Safety of wind turbines power converters		
PT 61400-6	Wind turbines - Tower and foundation design		
PT 61400-28	Wind energy generation systems - Part 28: Through life management and life extension of wind power assets		
PT 61400-101	Wind energy generation systems - Part 101: General requirements for wind turbine plants		
PT 61400-12-2	Power performance measurements verification of electricity producing wind turbines		



1.3.15 High Voltage

	IEC/TC 115 High Voltage Direct Current (HVDC) transmission for DC voltages above 100 Kv		
	11 Standards	15 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.		
17	Working Groups under TC		
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		
AG 1	Advisory Group on Road Map and Editing		
JMT 1	HVDC substation audible noise		
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		
MT 8	Maintenance work for IEC/TS 62344		

	IEC/TC 17 High-voltage switchgear and controlgear		
	68 Standards	22 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 under TC		
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	WG under SC	43
SC 17A	Switching devices		25
SC 17C	Assemblies		18



GENELEC	CLC/TC 17AC		High-voltage switchgear and controlgear	
	65 Standards	17 Projects	National delegates: 0	
Scope	<p>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.</p>			
3	Working Groups under TC			
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	
	10 Standards	6 Projects	National delegates: 0	
Scope	<p>Standardisation of:</p> <ul style="list-style-type: none"> 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 <p>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)</p>			
8	Working Groups under TC			
WG 12	Principles to be observed in the design and erection of high voltage installations - Safety of high voltage installations			
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 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			
JMT7	Maintenance of IEC/TS 61936-2 linked to TC 115, SC 22F,			

GENELEC	CLC/TC 99X		Power installations exceeding 1 kV a.c. (1,5 kV d.c.)	
	11 Standards	4 Projects	National delegates: 0	
Scope	<p>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.</p>			
1	Working Groups under TC			
WG 01	Earthing aspects			



1.3.16 Low Voltage

	IEC/TC 109 Insulation co-ordination for low-voltage equipment		
	13 Standards	0 Projects	National delegates: 0
Scope	<p>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.).</p> <p>To provide IEC Technical Committees with:</p> <ul style="list-style-type: none"> - 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. <p>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.</p>		
4	Working Groups under TC		
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		
	6 Standards	0 Projects	National delegates: 0

	IEC/TC 121 Switchgear and controlgear and their assemblies for low voltage		
	93 Standards	19 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p>		
5	Working Groups under TC		
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		
PT 121-1	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	WG under SC	22
SC 121A	Low-voltage switchgear and controlgear		14
SC 121B	Low-voltage switchgear and controlgear assemblies		8

	CLC/SR 121 Switchgear and controlgear and their assemblies for low voltage		
	0 Standards	1 Projects	National delegates: 0



GENELEC	CLC/TC 121A		Low-voltage switchgear and controlgear	
	67 Standards	14 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 under TC			
WG 3	Control switches			

GENELEC	CLC/SR 121B		Low-voltage switchgear and controlgear assemblies	
	14 Standards	5 Projects	National delegates: 0	

1.3.17 Electrical Energy Storage Systems



IEC	IEC/TC 120		Electrical Energy Storage (EES) Systems	
	8 Standards	12 Projects	National delegates: 0	
Scope	<ol style="list-style-type: none"> Standardization in the field of grid integrated EES Systems. <ul style="list-style-type: none"> 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). For the purpose of TC120, "grid" includes and is not limited to applications in: <ol style="list-style-type: none"> transmission grids distribution grids commercial grids industrial grids residential grids islanded grids MUSH(Municipal/Military, Utilities/Universities, Schools, Hospitals) grids ICI (Institutional, Commercial and Industrial) grids <p>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 in 2 a-f.</p> <p>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:</p> <ul style="list-style-type: none"> 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) 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. 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 under TC			
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	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			



GENELEC	CLC/SR 120		Electrical Energy Storage (EES) Systems	
	4 Standards	7 Projects	National delegates: 0	


1.3.18 Protection from Lightning & Surges



INSTALLATION

	IEC/TC 81 Lightning protection		
	19 Standards	13 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: <ul style="list-style-type: none"> 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. 		
10	Working Groups under TC		
WG 18	Application Guide of IEC 62305-3, Ed.3		
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		
	22 Standards	12 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 under TC		
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		
	28 Standards	11 Projects	National delegates: 0
Scope	To prepare international standards regarding: <ul style="list-style-type: none"> 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 		
3	Working Groups under TC		
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		
2	Sub-Committees	WG under SC	12
SC 37A	Low-voltage surge protective devices		5
SC 37B	Components for low-voltage surge protection		7



GENELEC	CLC/SR 37		Surge arresters	
	4 Standards	1 Projects	National delegates: 0	

GENELEC	CLC/TC 37A		Low voltage surge protective devices	
	13 Standards	4 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 under TC			
WG 01	Development of SPDs for Power systems and for special applications including d.c.			
WG 02	Development of SPDs connected to Telecommunications and Signalling Networks			

GENELEC	CLC/SR 37B		Components for low-voltage surge protection	
	9 Standards	3 Projects	National delegates: 0	

1.3.19 Electric Cables & Electrical Accessories

IEC	IEC/TC 20		Electric cables	
	246 Standards	17 Projects	National delegates: 0	
Scope	<p>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.</p> <p>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.</p> <p>Cables specifically designed for marine applications covered by SC 18A are excluded.</p> <p>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:</p> <ul style="list-style-type: none"> - flame propagation tests; - fire resistance tests; - smoke optical density tests; - corrosivity tests. 			
4	Working Groups under TC			
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			



GENELEC	CLC/TC 20		Electric cables	
	228 Standards	12 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 under TC			
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	
	242 Standards	51 Projects	National delegates: 0	
Scope (extract)	<p>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.</p> <p>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.</p> <p>These accessories and related systems are:</p> <ul style="list-style-type: none"> - 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. <p>(...)</p>			
9	Working Groups under TC			
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 purposes - 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		WG under SC	49
SC 23A	Cable management systems			13
SC 23B	Plugs, socket-outlets and switches			15
SC 23E	Circuit-breakers and similar equipment for household use			5
SC 23G	Appliance couplers			1
SC 23H	Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles			10
SC 23J	Switches for appliances			2
SC 23K	Electrical Energy Efficiency products			3

GENELEC	CLC/SR 23		Electrical accessories	
	14 Standards	1 Projects	National delegates: 0	



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

GENELEC	CLC/TC 23BX		Switches, boxes and enclosures for household and similar purposes, plugs and socket outlet for D.C.	
	39 Standards	15 Projects	National delegates: 0	
Scope	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>			
7	Working Groups under TC			
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			

GENELEC	CLC/TC 23E		Circuit breakers and similar devices for household and similar applications	
	69 Standards	10 Projects	National delegates: 0	
Scope	<p>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.</p> <p>This equipment is intended for fixed installations or for use in or with appliances or other equipment. This equipment may include electronic components.</p>			
3	Working Groups under TC			
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)			

GENELEC	CLC/SR 23G		Appliance couplers	
	18 Standards	2 Projects	National delegates: 0	



CENELEC	CLC/TC 23H Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles		
	21 Standards	8 Projects	National delegates: 0
Scope	<p>To prepare standards for industrial plugs, socket-outlets and couplers suitable for use in industrial, commercial, private or public locations, either indoors or outdoors.</p> <p>To prepare standards for other accessories, such as industrial cable reels among others, intended for use with industrial plugs, socket-outlets and couplers.</p> <p>To prepare standards for connection products intended for the connection of electric vehicles to the supply network and/or to dedicated supply equipment.</p> <p>The rated voltages of products covered by these standards lie within IEC 60038.</p>		
4	Working Groups under TC		
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		
	14 Standards	0 Projects	National delegates: 0

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

CENELEC	CLC/TC 213 Cable management systems		
	50 Standards	19 Projects	National delegates: 0
Scope	<p>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.</p> <p>Management includes support and/or containment and/or retention and/or protection against external influences.</p>		
13	Working Groups under TC		
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	IEC/TC 14		Power transformers	
	50 Standards	4 Projects	National delegates: 0	
Scope	<p>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.</p> <p>Excluded: - Instrument transformers; - Testing transformers; - Traction transformers mounted on rolling stock; - Welding transformers; - Transformers for applications covered by TC 96.</p>			
25	Working Groups under TC			
WG 32	Power transformers and reactor fittings			
WG 33	Suppression devices of DC magnetic bias of electric power transformers			
WG 34	Voltage Regulating Distribution Transformers (VRDT)			
ahG 35	The functional classification of power transformers			
AG 37	Monitoring equipment for on-line power transformer surveillance			
MT 60076-7	Loading guide for oil-immersed power transformers			
MT 60076-1	Power transformers - Part 1: General			
MT 60076-14	Liquid-immersed power transformers using high-temperature insulation materials			
MT 60076-6	Reactors			
MT 60076-2	Temperature rise for liquid-immersed transformers			
MT 60076-5	Ability to withstand short circuit			
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 60076-11	Power transformers - Part 11: Dry-type transformers			
MT 60076-4	Power transformers - Part 4: Guide to the lightning impulse and switching impulse testing - Power transformers and reactors			
MT 60076-57-129	Power transformers - Part 57-129: HVDC converter transformers			
MT 60076-15	Power transformers - Gas-filled power transformer			
MT 60076-3	Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air			
MT 60076-10	Power transformers - Part 10: Determination of sound levels			
MT 60076-16	Transformers for wind turbine applications			
MT 60214	Tap changers			
MT 61378-3	Converter transformers - Part 3: Application guide			
PT 60076-20	Energy efficiency			
PT 60076-25	Power transformers - Part 25: Neutral grounding resistors - General design requirements and test procedures			
PT 60076-57-1202	Liquid Immersed Phase Shifting Transformers			


CENELEC	CLC/TC 14		Power transformers	
	57 Standards	10 Projects	National delegates: 0	
Scope	<p>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.</p> <p>Excluded: - Instrument transformers - Testing transformers - Traction transformers mounted on rolling stock - Welding transformers - Transformers for applications covered by TC 96.</p>			
4	Working Groups under TC			
WG 21	Maintenance of EN50708-2 series			
WG 28	Plug in cable-connections			
WG 29	Maintenance of EN50708-3 series			
WG 32	Maintenance of EN50708-1 series			



	IEC/TC 33 Power capacitors and their applications		
	44 Standards	3 Projects	National delegates: 0
Scope	Standardization of Power Capacitors and their Applications		
10	Working Groups under TC		
WG 23	Self-healing A.C. shunt power capacitors having a rated voltage above 1 000 V		
MT 13	Series capacitor banks and protective equipment		
MT 18	Power electronics capacitors		
MT 19	Shunt capacitors for a.c. power systems having a rated voltage above 1000 V		
MT 20	Coupling capacitors and capacitor dividers		
MT 21	Shunt power capacitors for a.c. systems having a rated voltage up to and including 1000 V		
MT 24	Special applications		
MT 25	AC motor capacitors		
JWG 17A	(TC 33 - SC 17A) - Grading capacitors linked to SC 17A		
JWG 22F	(TC 33 - SC 22F) - Thyristor controlled series capacitors linked to SC 22F		

	CLC/SR 33 Power capacitors and their applications		
	33 Standards	5 Projects	National delegates: 0

1.3.21 Electrical Installations

	CLC/TC 31 Electrical apparatus for potentially explosive atmospheres		
	73 Standards	25 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.		
6	Working Groups under TC		
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		
2	Sub-Committees	WG under SC	4
SC 31-8	Electrostatic painting and finishing equipment		0
SC 31-9	Electrical apparatus for the detection and measurement of combustible gases to be used in industrial and commercial potentially explosive atmospheres		4



IEC	IEC/TC 31		Equipment for explosive atmospheres	
	96 Standards	22 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 under TC			
WG 22	Responsible for MT 60079-0, maintenance of IEC 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			
JWG 29	with TC 101 - Electrostatics			
JWG 45	Toxic gas detection for workplace atmospheres			
JWG 50	JWG 50 standards coordination with IECEx			
AG 36	Chair's Advisory Group			
AG 49	Portable and personal equipment			
AG 55	Specific Conditions of Use			
ahG 56	Different dielectric strength and insulation resistance tests in 60079-5, 60079-7, 60079-11, 60079-15, and 60079-18			
ahG 57	Alignment of sealing concepts in IEC 60079-1, IEC 60079-2, IEC 60079-26, and IEC TS 60079-40			
EG 52	Editing Group			
JMT 62784	Particular requirements for vacuum cleaners and dust extractors providing equipment protection level Dc			
MT 60079-1	Maintenance of IEC 60079-1			
MT 60079-15	Maintenance of IEC 60079-15			
MT 60079-18	Maintenance of IEC 60079-18			
MT 60079-2	Maintenance of IEC 60079-2			
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 60079-31	Maintenance of IEC 60079-31			
MT 60079-33	Maintenance of IEC 60079-33			
MT 60079-35	Maintenance of IEC 60079-35-1 and IEC 60079-35-2			
MT 60079-46	Explosive atmospheres - Equipment assemblies			
MT 60079-7	Maintenance of IEC 60079-7			
PT 60079-44	Explosive atmospheres – Personal Competence			
PT 60079-45	Electrical Ignition Systems for Internal Combustion Engines			
3	Sub-Committees		WG under SC	21
SC 31G	Intrinsically-safe apparatus			5
SC 31J	Classification of hazardous areas and installation requirements			8
SC 31M	Non-electrical equipment and protective systems for explosive atmospheres			8



IEC	IEC/TC 32		Fuses	
	63 Standards	13 Projects	National delegates: 0	
Scope	<p>To prepare international standards regarding specifications of all types of fuses, with the object of determining:</p> <ol style="list-style-type: none"> 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. <p>To prepare for these fuses international standards for standard value of:</p> <ol style="list-style-type: none"> 1. characteristics: rated voltages, currents and breaking capacities; 2. dimensions in connection with the fixing and interchangeability of high-voltage and low-voltage fuses. 			
5	Working Groups under TC			
WG 1	New standard for HV fuses / DC and /or special application			
WG 2	Fuses for rated voltage of more than 1.000V a.c.			
MT 2	Revise IEC 60943 TR			
MT 3	Revision of IEC 60050-441			
AG CAG	Chairman's Advisory Group			
3	Sub-Committees		WG under SC	12
SC 32A	High-voltage fuses			5
SC 32B	Low-voltage fuses			3
SC 32C	Miniature fuses			4

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

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

GENELEC	CLC/SR 32B		Low-voltage fuses	
	10 Standards	8 Projects	National delegates: 0	

GENELEC	CLC/SR 32C		Miniature fuses	
	16 Standards	5 Projects	National delegates: 0	

IEC	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 under TC			
MT 1	Calculation of short-circuit currents			

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




IEC	IEC/TC 64 Electrical installations and protection against electric shock		
	83 Standards	23 Projects	National delegates: 0
Scope	<p>To prepare International standards:</p> <ul style="list-style-type: none"> 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. <p>The object of the standards shall be:</p> <ul style="list-style-type: none"> 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. <p>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.</p>		
27	Working Groups under TC		
WG 43	Application guides parts 61200-200 complying with IEC 60364		
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		
ahG 35	Review of TC 64 publications		
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		
PT 60364-8-3	Low-voltage electrical installation - Part 8-3: Evolutions of Electrical Installations		
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 61200-101	Application Guide: Residential electrical installation in direct current not intended to be connected to Public Distribution Network		
PT 60364-7-720	Requirements for special installations or locations – DC power supply system in the data centre		
PT 60364-7-751	Requirements for special installations or locations Part 7-751 – Low voltage generating sets		




GENELEC	CLC/TC 64		Electrical installations and protection against electric shock	
	93 Standards	29 Projects	National delegates: 0	
Scope	<p>To prepare International standards</p> <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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. <p>The standards will not cover individual items of electrical equipment other than their selection for use.</p>			
31	Working Groups under TC			
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 LED modules			
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			
JWG 64/82	Installation of PV - Equipment			

1.3.22 Communication Cables & Equipments



	IEC/TC 46		
	Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories		
	364 Standards	57 Projects	National delegates: 0
Scope	<p>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.</p> <p>Note: Magnetic components and ferrite devices covered by the scope of TC 51 will not be dealt with by this technical committee.</p>		
6	Working Groups under TC		
WG 5	Test methods and limits for the electromagnetic compatibility (EMC) of metallic cables and other passive components, by the measurement of their electromagnetic coupling with the environment		
WG 6	Passive Intermodulation Measurement (PIM)		
WG 9	Metallic Cable Assemblies for ICT		
MT IEV-726	IEV 726		
JWG 1	Raw materials and environmental issues linked to SC 86A		
ahG12	Leaky wave guide		
3	Sub-Committees	WG under SC	7
SC 46A	Coaxial cables		2
SC 46C	Wires and symmetric cables		4
SC 46F	RF and microwave passive components		1

	CLC/SR 46F		
	RF and microwave passive components		
	84 Standards	16 Projects	National delegates: 0

	CLC/SR 46X		
	Communication cables		
	193 Standards	21 Projects	National delegates: 0
Scope	<p>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.</p> <p>Particular requirements for materials, if necessary, will be evaluated in liaison with other technical committees.</p>		
3	Working Groups under TC		
JWG TC46XTC86A	JWG 1 - Fire test methods and raw materials		
WG 02	Electrical Test method (excepting EMC and Raw materials)		
WG 03	Mechanical and Environmental Test Procedures		
2	Sub-Committees	WG under SC	2
SC 46XA	Coaxial cables		0
SC 46XC	Multicore, multipair and quad data communication cables		2



	IEC/TC 86		Fibre optics	
	581 Standards	107 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 under TC			
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		WG under SC	11
SC 86A	Fibres and cables			2
SC 86B	Fibre optic interconnecting devices and passive components			5
SC 86C	Fibre optic systems and active devices			4

	CLC/SR 86		Fibre optics	
	25 Standards	3 Projects	National delegates: 0	

	CLC/TC 86A		Optical fibres and optical fibre cables	
	114 Standards	24 Projects	National delegates: 0	
Scope	To prepare and maintain specifications for optical fibres and optical fibre cables, excluding image transmission types			
4	Working Groups under TC			
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			


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

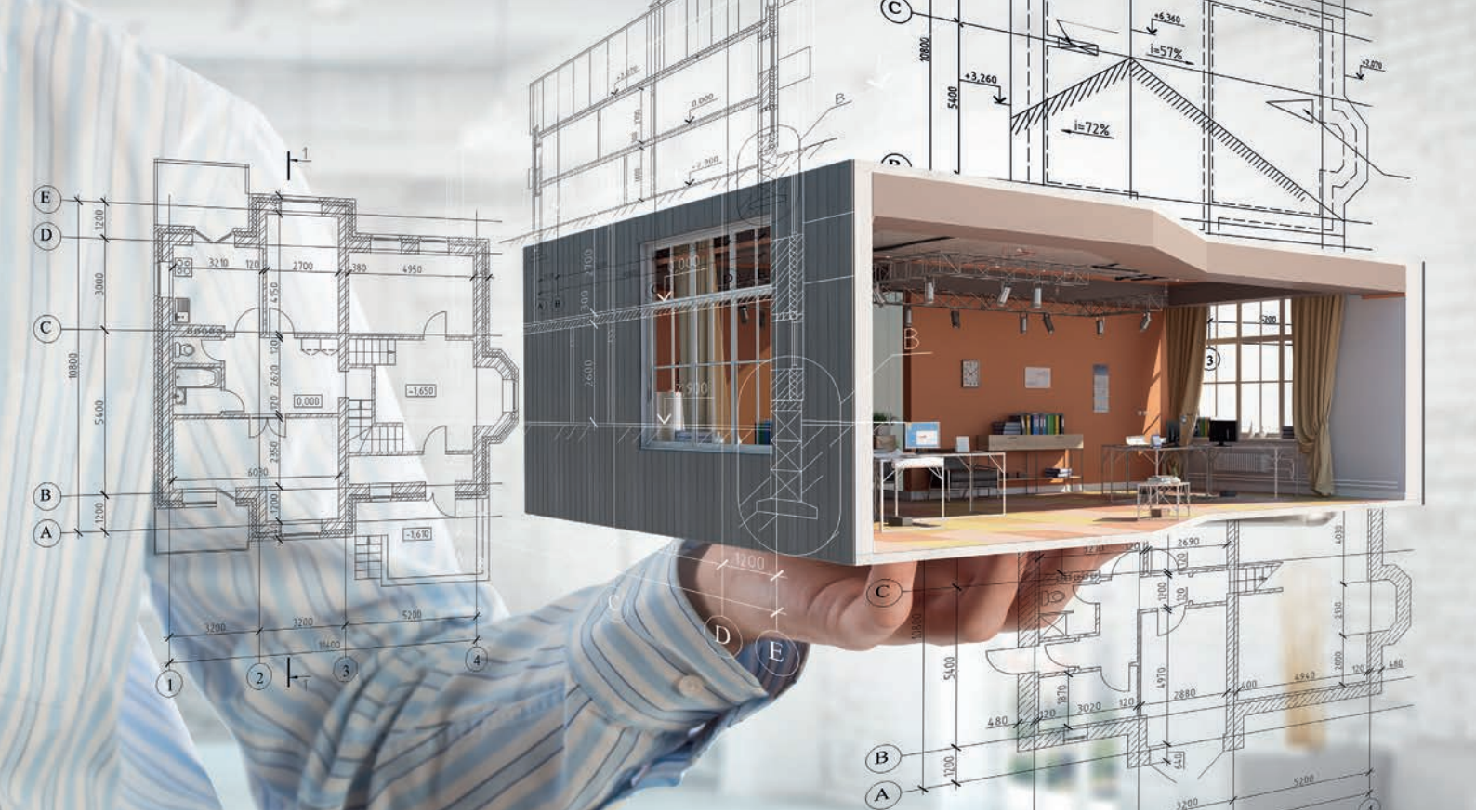
	CLC/TC 86BXA		Fibre optic interconnect, passive and connectorised components	
	327 Standards	64 Projects	National delegates: 0	
Scope	To prepare and maintain European Standards and specifications for fibre optic interconnecting devices, passive and/or connectorised components, fibre optic protective housings, fibre management systems, fusion splice protectors, mechanical splices, unprotected microduct tubes and microduct tube connectors.			
3	Working Groups under TC			
JWG TC86 BXATC86A	Interaction between connectors and cables			
WG 01	Fibre optic connectors & passive components			
WG 02	Fibre management systems and protective housings			

	CLC/SR 86C		Fibre optic systems and active devices	
	118 Standards	12 Projects	National delegates: 0	



CENELEC	CLC/TC 209 Cable networks for television signals, sound signals and interactive services		
	39 Standards	6 Projects	National delegates: 0
Scope	<p>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.</p> <p>These signals are typically transmitted in networks by frequency-multiplexing techniques. This includes for instance</p> <ul style="list-style-type: none"> - 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. <p>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.</p> <p>The standardization work will consider coexistence with users of the RF spectrum in wired and wireless transmission systems.</p> <p>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.</p>		
7	Working Groups under TC		
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		
	54 Standards	6 Projects	National delegates: 4 
Scope	<ul style="list-style-type: none"> - 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 under TC		
WG 01	Cabling design		
WG 02	Cabling installation - Quality assurance and installation practices		
WG 03	Facilities and infrastructures		



1.4 COMPLETION & FINISHING

PLASTERING

JOINERY

FLOOR AND WALL COVERING

PAINTING

GLAZING

ROOFING



1.4 Completion & Finishing



1.4.1	Wood & Timber	110
1.4.2	Gypsum.....	111
1.4.3	Coatings.....	112
1.4.4	Sealing	113
1.4.5	Sealant.....	113
1.4.6	Roof	114
1.4.7	Doors & Windows.....	114
1.4.8	Glass in Building	115
1.4.9	Paints & Varnishes.....	116
1.4.10	Wallcoverings.....	116
1.4.11	Ceramic Tiles	117
1.4.12	Ceilings	117
1.4.13	Floor Coverings.....	118
1.4.14	Floor Screeds.....	118
1.4.15	Surfaces for Sports Areas	118




1.4.1 Wood & Timber


	ISO/TC 89		Wood-based panels	
	44 Standards	0 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 under TC			
WG 5	Test methods			
3	Sub-Committees		WG under SC	0
SC 1	Fibre boards			0
SC 2	Particle boards			0
SC 3	Plywood			0

	CEN/TC 112		Wood-based panels	
	68 Standards	9 Projects	National delegates: 0	
Scope	Preparation of standards for wood-based panels and panels of other lignocellulosic materials covering: <ul style="list-style-type: none"> - terminology; - classification; - requirements; - product specifications; - methods of tests. 			
8	Working Groups under TC			
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 9	Solid wood panels			
WG 11	Particleboards and fibreboards			
WG 13	Mandate			


	CEN/TC 38		Durability of wood and wood-based products	
	47 Standards	26 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 under TC			
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	
	60 Standards	5 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 under TC			
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	
	62 Standards	17 Projects	National delegates: 0	
Scope	Standardization of round and sawn timber in all uses, including timber prefabricated products and excluding structural aspects.			
9	Working Groups under TC			
WG 1	General matters, definitions, measurement methods			
WG 2	Sawn timber			
WG 4	Round timber			
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	
	13 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 under TC			
WG 1	Powders			
WG 3	Board products			
WG 5	Framework and coordination			



COMPLETION & FINISHING

1.4.3 Coatings

	ISO/TC 107 Metallic and other inorganic coatings		
	157 Standards	20 Projects	National delegates: 2
Scope	<ul style="list-style-type: none"> 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 under TC		
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	WG under SC	1
SC 3	Electrodeposited coatings and related finishes		1
SC 4	Hot dip coatings (galvanized, etc.)		0
SC 7	Corrosion tests		0
SC 8	Chemical conversion coatings		0
SC 9	Physical vapor deposition coatings		0

	CEN/TC 262 Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys		
	153 Standards	25 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 under TC		
WG 2	Maintenance and ISO co-ordination		
WG 5	Coating qualification tests		
WG 12	Guidelines and specifications for electrodeposited coatings of zinc or cadmium (including supplementary treatments) on iron or steel		
WG 13	Hot dip galvanized coatings		
WG 14	Vitreous enamel coatings		

	CEN/TC 240 Thermal spraying and thermally sprayed coatings		
	38 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	
	1 Standards	0 Projects	National delegates: 0
	CEN/TC 254	Flexible sheets for waterproofing	
	64 Standards	8 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 under TC		
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	WG under SC	0
SC 1	Bitumen sheeting		0
SC 2	Synthetic sheets		0

1.4.5 Sealant

	ISO/TC 59/SC 8	Sealants	
	38 Standards	0 Projects	National delegates: 0
Scope	Standardization in the field of buildings and civil engineering regarding: <ul style="list-style-type: none"> • 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)		
3	Working Groups under TC		
WG 5	Determination of higher movement capability		
WG 6	Determination of durability		
WG 22	Cure properties		

	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 under TC		
WG 2	Sealants for glazing		

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



1.4.6 Roof

	CEN/TC 128 Roof covering products for discontinuous laying and products for wall cladding		
	31 Standards	19 Projects	National delegates: 2
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 under TC		
WG 1	Mandates - Preparation		
WG 2	Pre-consideration Working Group		
WG 3	Renewable energy systems for roofs		
10	Sub-Committees	WG under SC	12
SC 1	General requirements for roofing products - Types and scope of tests		0
SC 2	Concrete roofing tiles		0
SC 3	Clay roofing tiles		0
SC 4	Fibre-cement products for roofing		3
SC 6	Bitumen shingles and corrugated sheets for roofing		0
SC 7	Roofing products from metal sheet		0
SC 8	Slate and stone products for roofing		0
SC 9	Prefabricated accessories for roofing		4
SC 10	Gutters		1
SC 11	Double skin metal faced insulating sandwich panels for roofing and cladding		4


1.4.7 Doors & Windows


	ISO/TC 162 Doors, windows and curtain walling		
	21 Standards	5 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 under TC		
WG 3	Terminology		
WG 4	Windows and doors		
WG 5	Curtain walling		

	CEN/TC 33 Doors, windows, shutters, building hardware and curtain walling		
	120 Standards	31 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 under TC		
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		
	57 Standards	3 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.		
1	Working Groups under TC		
CAG	Chairman advisory group		
2	Sub-Committees	WG under SC	13
SC 1	Product considerations		8
SC 2	Use considerations		5

	CEN/TC 129 Glass in building		
	44 Standards	17 Projects	National delegates: 0
Scope	Standardization in the field of glass used in building including: <ul style="list-style-type: none"> - 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. 		
19	Working Groups under TC		
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 13	Safety glazing		
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	
	282 Standards	46 Projects	National delegates:	1
Scope	Standardization in the field of paints, varnishes and related products, including raw materials.			
5	Working Groups under TC			
CAG	Chairman's advisory group			
JWG 6	Joint ISO/TC 35 - ISO/TC 67 WG: Competency requirements of coating inspectors and applicators			
WG 2	Terminology			
WG 4	Binders for paints and varnishes			
WG 5	Naval stores			
5	Sub-Committees	WG under SC	12	
SC 9	General test methods for paints and varnishes			5
SC 12	Preparation of steel substrates before application of paints and related products			3
SC 14	Protective paint systems for steel structures			1
SC 15	Protective coatings: concrete surface preparation and coating application			1
SC 16	Chemical analysis			2


	CEN/TC 139		Paints and varnishes	
	330 Standards	42 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 under TC			
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	
	10 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		
	32 Standards	4 Projects	National delegates: 0
Scope	Standardization of ceramic tiles generally used for floor coverings and wall facings.		
10	Working Groups under TC		
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		

	CEN/TC 67 Ceramic tiles		
	29 Standards	9 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 under TC		
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		
	0 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	
	84 Standards	5 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.			
3	Working Groups under TC			
WG 1	Textile floor coverings			
WG 2	Resilient floor coverings			
WG 3	Laminate floor coverings			

	CEN/TC 134		Resilient, textile, laminate and modular mechanical locked floor coverings	
	98 Standards	15 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 under TC			
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	
	12 Standards	1 Projects	National delegates: 0	
Scope	Standardization of floor screeds and screed materials for floorings in buildings and civil engineering works.			
2	Working Groups under TC			
WG 1	Terminology and properties			
WG 2	Test methods			

1.4.15 Surfaces for Sports Areas

	CEN/TC 217		Surfaces for sports areas	
	38 Standards	14 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 under TC			
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



1.5 Safety, Machinery & Equipment



1.5.1	Personal Protective Equipment	122
1.5.2	Tools.....	124
1.5.3	Work at Height.....	125
1.5.4	Cranes.....	126
1.5.5	Machinery.....	127
1.5.6	Mechanical Vibration & Shock.....	129
1.5.7	Chains, Ropes, Webbing, Slings & Accessories.....	130
1.5.8	Aerial Ropeways, Funicular Ropeways & Surface Lifts	130
1.5.9	Live Working.....	131
1.5.10	Measuring Equipment for Electrical & Electromagnetic Quantities	132
1.5.11	Temporary Works Equipment.....	133





1.5.1 Personal Protective Equipment


	ISO/TC 94		Personal safety -- Personal protective equipment	
	192 Standards	46 Projects	National delegates: 1	
Scope	Standardization of the performance of personal protective equipment designed to safeguard wearers against all known possible hazards.			
3	Working Groups under TC			
CAG	Chairman advisory group			
WG 1	Compatibility of PPE items			
WG 2	Head protection			
6	Sub-Committees		WG under SC	26
SC 3	Foot protection			2
SC 4	Personal equipment for protection against falls			0
SC 6	Eye and face protection			5
SC 13	Protective clothing			7
SC 14	Firefighters' personal equipment			6
SC 15	Respiratory protective devices			6



	CEN/TC 158		Head protection	
	29 Standards	15 Projects	National delegates: 0	
Scope	To prepare European standards for all types of protective helmets.			
7	Working Groups under TC			
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	7 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 under TC			
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		
	20 Standards	9 Projects	National delegates: 3 
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 under TC		
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		
	21 Standards	2 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 under TC		
WG 1	PPE footwear - Test methods		
WG 2	PPE footwear - Requirements		

	CEN/TC 162 Protective clothing including hand and arm protection and lifejackets		
	133 Standards	41 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 under TC		
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		
	145 Standards	24 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 under TC		
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		
	132 Standards	51 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 under TC		
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 under TC		
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	<ol style="list-style-type: none"> 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 PNEUROPE 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 responsibility 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	0 Projects	National delegates:	0

1.5.3 Work at Height


	ISO/TC 214		Elevating work platforms	
	9 Standards	1 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 under TC			
WG 1	Mobile elevating work platforms			



	CEN/TC 98		Lifting platforms	
	7 Standards	3 Projects	National delegates:	2
Scope	Preparation of basic calculation and stability criteria, matters of construction, safety, testing and inspection of lifting platforms.			
8	Working Groups under TC			
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 9	Mechanical Parking Devices			

	CEN/TC 93		Ladders	
	7 Standards	8 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.			
9	Working Groups under TC			
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			
WG 14	Window cleaning ladders			




1.5.4 Cranes


	ISO/TC 96		Cranes	
	107 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.			
1	Working Groups under TC			
WG 3	Telematics			
9	Sub-Committees		WG under SC	17
SC 2	Terminology			1
SC 3	Selection of ropes			1
SC 4	Test methods			2
SC 5	Use, operation and maintenance			4
SC 6	Mobile cranes			4
SC 7	Tower cranes			2
SC 8	Jib cranes			1
SC 9	Bridge and gantry cranes			1
SC 10	Design principles and requirements			1



	CEN/TC 147		Cranes - Safety	
	30 Standards	15 Projects	National delegates: 2	
Scope	Development and maintenance of safety standards for the design, manufacture and information to be provided for the following products: <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> - 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 under TC			
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		
	177 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 under TC		
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	WG under SC	25
SC 1	Test methods relating to safety and machine performance		3
SC 2	Safety, ergonomics and general requirements		12
SC 3	Machine characteristics, electrical and electronic systems, operation and maintenance		7
SC 4	Terminology, commercial nomenclature, classification and ratings		3


	ISO/TC 110 Industrial trucks		
	84 Standards	19 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 : <ul style="list-style-type: none"> terminology and definitions; safety requirements related to: <ul style="list-style-type: none"> 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	WG under SC	14
SC 1	General terminology		0
SC 2	Safety of powered industrial trucks		7
SC 4	Rough-terrain trucks		6
SC 5	Sustainability		1

	ISO/TC 199 Safety of machinery		
	45 Standards	6 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.		
8	Working Groups under TC		
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		




	ISO/TC 195		Building construction machinery and equipment	
	37 Standards	12 Projects	National delegates: 0	
Scope	<p>Standardization in the field of Machines and equipment used on construction sites, including:</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ○ nomenclature, ○ application, ○ classification, ○ ratings, ○ technical requirements, ○ test methods, ○ safety requirements <p>Excluded:</p> <ul style="list-style-type: none"> • 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, RMDs (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). 			
5	Working Groups under TC			
AG 1	Advisory group			
WG 2	Terminology			
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		WG under SC	10
SC 1	Machinery and equipment for concrete work			7
SC 2	Road operation machinery and associated equipment			2
SC 3	Drilling and foundation machinery and equipment			1



	CEN/TC 151 Construction equipment and building material machines – Safety		
	103 Standards	42 Projects	National delegates: 0
Scope	<p>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.</p> <p>Excluded are:</p> <ul style="list-style-type: none"> - 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 under TC		
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		
	40 Standards	2 Projects	National delegates: 0
Scope	<p>Standardization in the field of mechanical vibration and shock, including:</p> <ul style="list-style-type: none"> - 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). 		
1	Working Groups under TC		
WG 2	Hand-arm vibration		



SAFETY, MACHINERY & EQUIPMENT

1.5.7 Chains, Ropes, Webbing, Slings & Accessories

	ISO/TC 111 Round steel link chains, chain slings, components and accessories		
	21 Standards	1 Projects	National delegates: 0
Scope	Standardization in the field of: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> anchor chains covered by ISO/TC 8; mining chains covered by ISO/TC 82. 		
2	Sub-Committees	WG under SC	2
SC 1	Chains and chain slings		0
SC 3	Components and accessories		2

	CEN/TC 168 Chains, ropes, webbing, slings and accessories – Safety		
	40 Standards	1 Projects	National delegates: 2
Scope	Standardization in terms of safety of: <ol style="list-style-type: none"> welded round steel link chains and chain slings; steel wire ropes, their terminations and wire rope slings; fibre ropes, fibre rope slings, flat textile slings and round slings; hooks and other accessories; used for lifting (lifting includes: raising, lowering and suspending) purposes. 		
5	Working Groups under TC		
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		
	18 Standards	8 Projects	National delegates: 0
Scope	Safety standards for the construction and operation of aerial ropeways, funicular ropeways and surface lifts for passenger transportation.		
13	Working Groups under TC		
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 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



IEC	IEC/TC 78		Live working	
	63 Standards	11 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.			
27	Working Groups under TC			
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			
ahG 17	Electrical testing on insulating protective products			
ahG 18	Review the existing scope of IEC TC 78			
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 61318	Maintenance of IEC 61318: Live working - Conformity assessment applicable to tools, devices and equipment			
MT 62192	Maintenance of IEC 62192: Live working - Insulating ropes			
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 60050-651-60743	Maintenance of IEC 60050-651 and IEC 60743			
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 61057	Maintenance of 61057: Aerial devices with insulating boom used for live working			
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 60903-984	Maintenance of IEC 60903: Live working - Gloves of insulating material and of IEC 60984: Sleeves of insulating material for live working			
MT 60895	Maintenance of IEC 60895: Live working - Conductive clothing for use at nominal voltage up to 800 kV A.C. and \pm 600 kV D.C.			
PT 63232	Electric arc performance of hand protection equipment - Test standard			
PT 78-904	Live working in the presence of RF fields			
PT 78-903	Guidance for Insulating hand tools for work on or near conductor rail systems operating at voltages up to 1500 V DC			
PT 78-902	Guidance for the selection, use and maintenance of electrical arc flash personal protective equipment			
PT 63247	Integration of EN 50321-1 to IEC 63247			
PT 61472-2	Preliminary Work Item for calculation of the minimum approach distances at medium voltage level			
PT 62819	To develop IEC 62819 Ed.1.0: Live working - Eye, face and head protectors against the effects of electric arc - Test methods and requirements			
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			



GENELEC	CLC/TC 78 Equipment and tools for live working		
	68 Standards	14 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.		
8	Working Groups under TC		
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		

1.5.10 Measuring Equipment for Electrical & Electromagnetic Quantities

IEC	IEC/TC 85 Measuring equipment for electrical and electromagnetic quantities		
	91 Standards	13 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.		
9	Working Groups under TC		
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 24	Uncertainty Definition and Determination Process		
PT 85-1	Terminology		
PT 61557-18	Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 18: DC EV Supply Equipment Monitoring Device		
MT 23	Revision of IEC 60051 series: Direct acting indicating analogue electrical measuring instruments and their accessories (Parts 1-9)		
MT 25	Maintenance 60477		
AG CAG	Chair Advisory Group		



GENELEC	CLC/TC 85X Measuring equipment for electrical and electromagnetic quantities		
	76 Standards	13 Projects	National delegates: 0
Scope	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>		
2	Working Groups under TC		
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		
	25 Standards	5 Projects	National delegates: 0
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 under TC		
WG 3	Tubes and fittings		
WG 4	Mobile access towers		
WG 10	Guardrails for temporary works		
WG 16	Basic requirements		

2 NATIONAL PARTICIPATION IN 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.

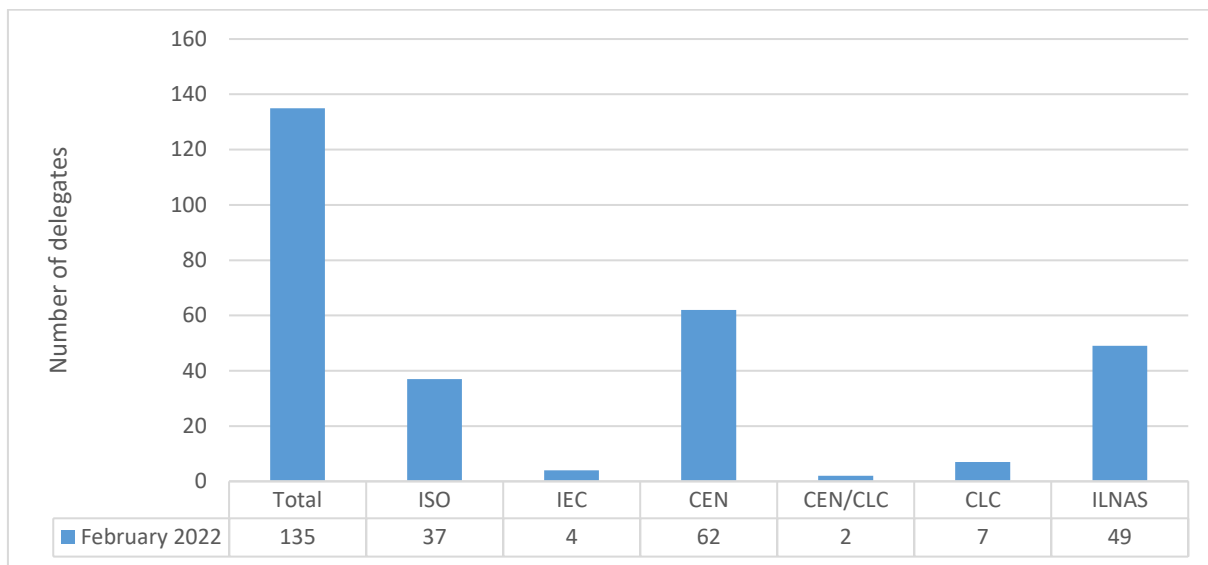


Figure 1: Number of national delegates registered in the standardization organizations

As of February 2022, 135 national delegates from 68 national organizations (see Figure 2) are participating in technical standardization.

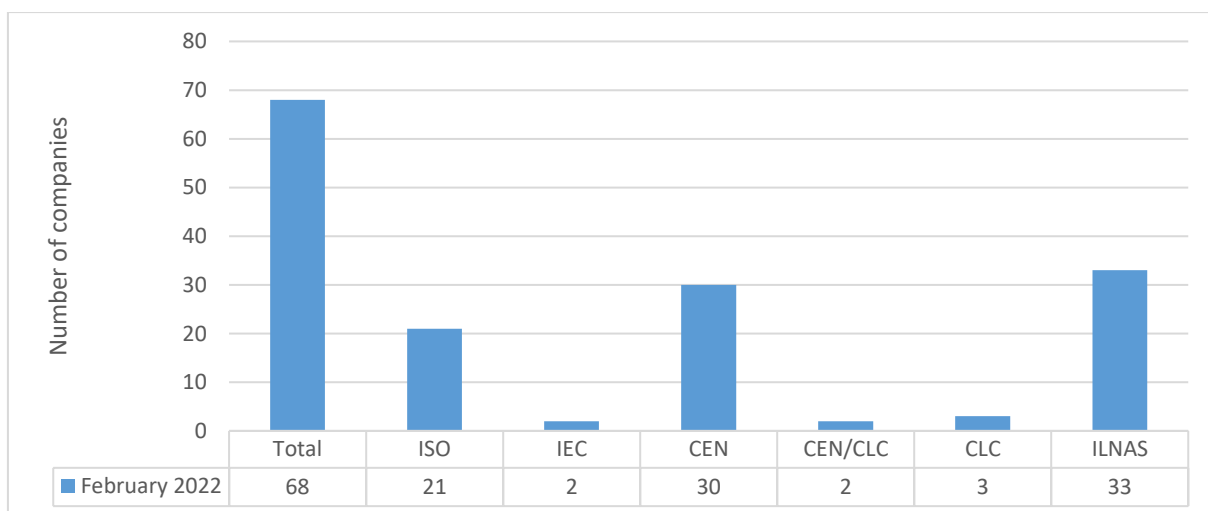


Figure 2: Number of national organizations involved in technical standardization per standardization organization

Figure 3 further details the number of technical committees (TC), sub-committees (SC) and working groups (WG) in which Luxembourg participates through its national delegates.

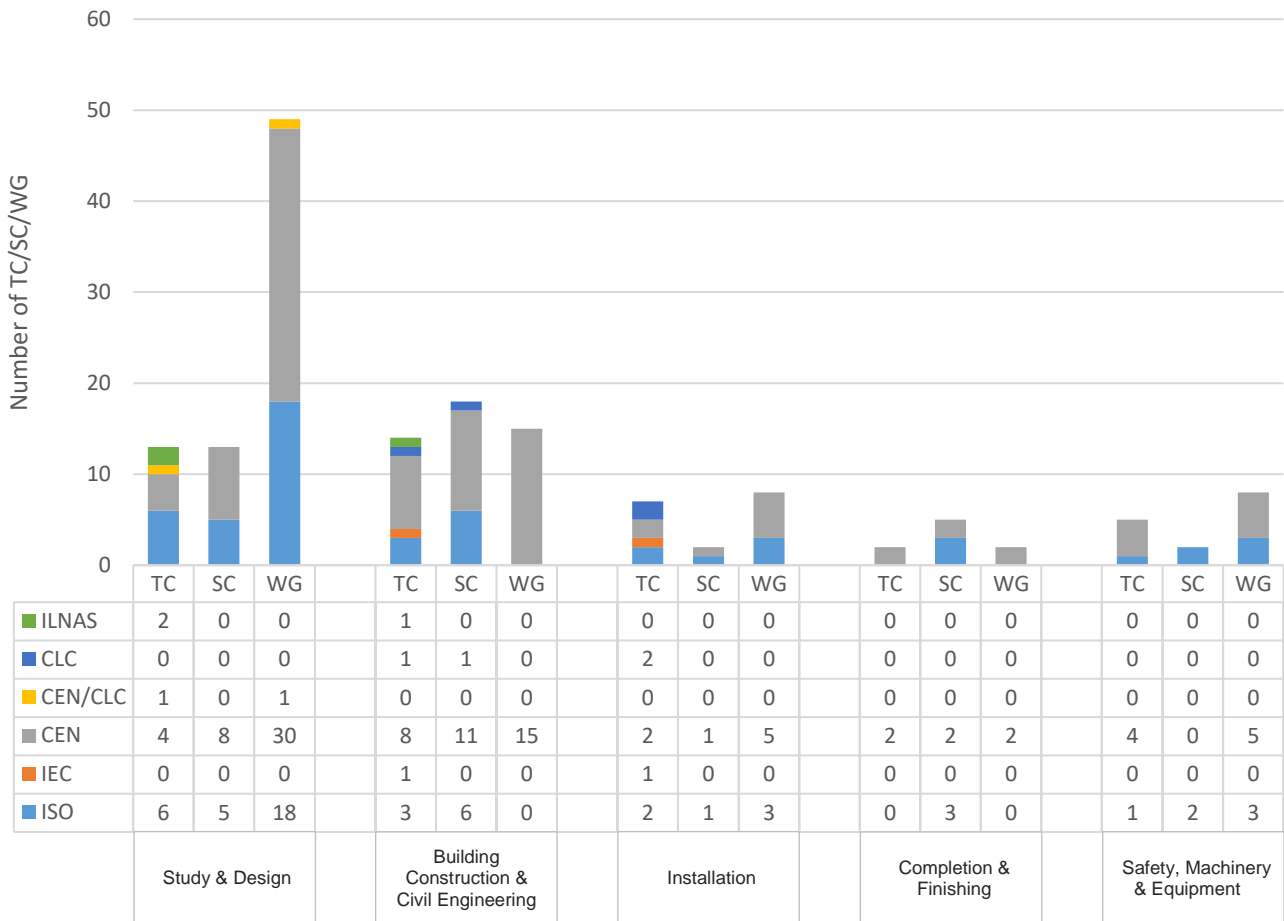


Figure 3: Details of the participation of national organizations in standardization organizations in February 2022

In February 2022, for the construction sector:

- Luxembourg has:
 - 135 delegates involved in standardization who are representing 68 national organizations.
- Luxembourg is represented in:
 - 41 technical committees,
 - 40 technical sub-committees,
 - 82 working groups.

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	Designation
1	CEN/CLC/JTC 14	Energy management and energy efficiency in the framework of energy transition
2	CEN/CLC/JTC 14/WG 5	Energy management and energy efficiency in the framework of energy transition; Guarantees of Origin and Energy Certificates
3	CEN/TC 10	Lifts, escalators and moving walks
4	CEN/TC 104	Concrete and related products
5	CEN/TC 104/SC 1	Concrete and related products; Concrete - Specification, performance, production and conformity; Execution of concrete structures
6	CEN/TC 104/SC 2	Concrete and related products; Execution of concrete structures
7	CEN/TC 104/SC 8	Concrete and related products; Protection and repairs of concrete structures
8	CEN/TC 121/SC 4	Welding and allied processes; Quality management in the field of welding
9	CEN/TC 125/WG 5	Application of external rendering and internal plastering
10	CEN/TC 128	Roof covering products for discontinuous laying and products for wall cladding
11	CEN/TC 128/SC 7	Roof covering products for discontinuous laying and products for wall cladding; Roofing products from metal sheet
12	CEN/TC 128/SC 9	Roof covering products for discontinuous laying and products for wall cladding; Prefabricated accessories for roofing
13	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
14	CEN/TC 135	Execution of steel structures and aluminium structures
15	CEN/TC 135/WG 14	Execution of steel structures and aluminium structures; Execution of aluminium structures and steel structures with cold formed structural sheeting
16	CEN/TC 135/WG 17	Product category rules complementary to EN 15804 for Steel and Aluminium structural products for use in construction works
17	CEN/TC 135/WG 2	Execution of steel structures and aluminium structures; Technical requirements for the execution of steel structures
18	CEN/TC 147	Cranes - Safety
19	CEN/TC 160	Protection against falls from height including working belts
20	CEN/TC 160/WG 1	Protection against falls from height including working belts; General requirements
21	CEN/TC 160/WG 2	Protection against falls from height including working belts; Personal fall arresting systems, components and systems
22	CEN/TC 162	Protective clothing including hand and arm protection and lifejackets
23	CEN/TC 162/WG 3	Protective clothing including hand and arm protection and lifejackets; Protective clothing against chemicals, infective agents and radioactive contamination
24	CEN/TC 165/WG 9	Waste water engineering; Concrete pipes
25	CEN/TC 168	Chains, ropes, webbing, slings and accessories - Safety

N°	Technical Committees	Designation
26	CEN/TC 168/WG 4	Chains, ropes, webbing, slings and accessories - Safety; Hooks and other accessories
27	CEN/TC 189	Geosynthetics
28	CEN/TC 189/WG 1	Geosynthetics; ad hoc group Asphalt reinforcement
29	CEN/TC 189/WG 2	Geosynthetics; Terminology, identification, sampling and classification
30	CEN/TC 189/WG 3	Geosynthetics; Mechanical testing
31	CEN/TC 189/WG 4	Geosynthetics; Hydraulic testing
32	CEN/TC 189/WG 5	Geosynthetics; Durability
33	CEN/TC 191/SC 1	Fixed firefighting systems; Smoke and heat control systems and components
34	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
35	CEN/TC 191/SC 1/WG 9	Fixed firefighting systems; Smoke and heat control systems and components; Smoke control in covered vehicle parks
36	CEN/TC 191/WG 10	Fixed firefighting systems; Water mist systems
37	CEN/TC 227	Road materials
38	CEN/TC 227/WG 1	Road materials; Bituminous mixtures
39	CEN/TC 229	Precast concrete products
40	CEN/TC 250/SC 1	Structural Eurocodes; Eurocode 1 - Actions on structures
41	CEN/TC 250/SC 1/WG 2	Structural Eurocodes; Eurocode 1 - Actions on structures; Atmospheric icing of structures
42	CEN/TC 250/SC 1/WG 4	Structural Eurocodes; Eurocode 1 - Actions on structures; Actions on structures exposed to fire
43	CEN/TC 250/SC 2	Structural Eurocodes; Eurocode 2 - Design of concrete structures
44	CEN/TC 250/SC 2/WG 1	Structural Eurocodes; Eurocode 2 - Design of concrete structures; Coordination and Editorial Panel
45	CEN/TC 250/SC 2/WG 1/TG 2	Structural Eurocodes; Eurocode 2 - Design of concrete structures; Coordination and Editorial Panel; TG2
46	CEN/TC 250/SC 3	Structural Eurocodes; Eurocode 3 - Design of steel structures
47	CEN/TC 250/SC 3/WG 1	Structural Eurocodes; Eurocode 3 - Design of steel structures; General rules for buildings
48	CEN/TC 250/SC 3/WG 10	Structural Eurocodes; Eurocode 3 - Design of steel structures; Part 1 - 10:Material toughness
49	CEN/TC 250/SC 3/WG 12	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-1-12 - High strength steels
50	CEN/TC 250/SC 3/WG 18	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-5 - Piling
51	CEN/TC 250/SC 3/WG 2	Structural Eurocodes; Eurocode 3 - Design of steel structures; Fire
52	CEN/TC 250/SC 3/WG 20	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution for EN 1993-1-13
53	CEN/TC 250/SC 3/WG 3	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-1-3 - Cold-formed members
54	CEN/TC 250/SC 3/WG 8	Structural Eurocodes; Eurocode 3 - Design of steel structures; Evolution of EN 1993-1-8 - Joints and connections
55	CEN/TC 250/SC 3/WG 9	Structural Eurocodes; Eurocode 3 - Design of steel structures; Part 1 - 9:Fatigue
56	CEN/TC 250/SC 4	Structural Eurocodes; Eurocode 4 - Design of composite steel and concrete structures

N°	Technical Committees	Designation
57	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
58	CEN/TC 250/SC 5	Structural Eurocodes; Eurocode 5 : Design of timber structures
59	CEN/TC 250/SC 5/WG 4	Structural Eurocodes; Eurocode 5 : Design of timber structures; Structural fire design
60	CEN/TC 250/SC 7	Structural Eurocodes; Eurocode 7 - Geotechnical design
61	CEN/TC 250/SC 7/WG 1	General rules and coordination
62	CEN/TC 250/SC 7/WG 2	Structural Eurocodes; Eurocode 7 - Geotechnical design; Ground investigation
63	CEN/TC 250/SC 7/WG 3	Structural Eurocodes; Eurocode 7 - Geotechnical design; Geotechnical constructions
64	CEN/TC 250/SC 8	Structural Eurocodes; Eurocode 8 - Earthquake resistance design of structures
65	CEN/TC 250/SC 8/WG 4	Structural Eurocodes; Eurocode 8 - Earthquake resistance design of structures; Seismic action and site classification
66	CEN/TC 254	Flexible sheets for waterproofing
67	CEN/TC 254/WG 9	Flexible sheets for waterproofing; Underlays for discontinuous roof coverings
68	CEN/TC 256	Railway applications
69	CEN/TC 256/SC 1	Railway applications; Infrastructure
70	CEN/TC 256/SC 2	Railway applications; Rolling stock products
71	CEN/TC 256/SC 3	Railway applications; Rolling stock systems
72	CEN/TC 256/WG 19	Railway applications; Technical drawings
73	CEN/TC 256/WG 32	Railway applications; Gauge
74	CEN/TC 288	Execution of special geotechnical works
75	CEN/TC 288/WG 19	Execution of special geotechnical works; Sheet-pile walls
76	CEN/TC 288/WG 26	Execution of special geotechnical works; Displacement piles
77	CEN/TC 341	Geotechnical Investigation and Testing
78	CEN/TC 341/WG 7	Geotechnical Investigation and Testing; Non-static tests on geotechnical structures
79	CEN/TC 350	Sustainability of construction works
80	CEN/TC 350/SC 1	Sustainability of construction works; Circular Economy in the Construction Sector
81	CEN/TC 350/SC 1/WG 1	Sustainability of construction works; Circular Economy in the Construction Sector; Framework, principles and definitions
82	CEN/TC 350/SC 1/WG 2	Sustainability of construction works; Circular Economy in the Construction Sector; Gap analysis, conclusions and recommendations
83	CEN/TC 350/WG 1	Sustainability of construction works; Environmental performance of buildings
84	CEN/TC 350/WG 3	Sustainability of construction works; Products Level
85	CEN/TC 442	Building Information Modelling (BIM)
86	CEN/TC 442/WG 1	Building Information Modelling (BIM); Strategy and Planning
87	CEN/TC 442/WG 2	Building Information Modelling (BIM); Exchange information
88	CEN/TC 442/WG 3	Building Information Modelling (BIM); Information Delivery Specification
89	CEN/TC 442/WG 4	Building Information Modelling (BIM); Support Data Dictionaries

N°	Technical Committees	Designation
90	CEN/TC 451	Geothermal and water boreholes
91	CEN/TC 459/SC 12	ECISS - European Committee for Iron and Steel Standardization; General issues
92	CEN/TC 459/SC 3	ECISS - European Committee for Iron and Steel Standardization; Structural steels other than reinforcements
93	CEN/TC 459/SC 3/WG 1	ECISS; Structural steels other than reinforcements; Sheet piles
94	CEN/TC 459/SC 3/WG 9	ECISS; Structural steels other than reinforcements; Eurocode prEN 1993-1-1 Annex E
95	CEN/TC 459/SC 4	ECISS - European Committee for Iron and Steel Standardization; Concrete reinforcing and prestressing steels
96	CEN/TC 459/SC 9	ECISS - European Committee for Iron and Steel Standardization; Coated and uncoated flat products to be used for cold forming
97	CEN/TC 51	Cement and building limes
98	CEN/TC 69	Industrial valves
99	CEN/TC 69/WG 1	Industrial valves; Basic standards
100	CEN/TC 69/WG 15	Industrial valves; Diaphragm valves
101	CEN/TC 98/WG 7	Lifting platforms; Suspended access equipment
102	CENELEC/TC 215	Electrotechnical aspects of telecommunication equipment
103	CENELEC/TC 81X	Lightning protection
104	CENELEC/TC 9X	Electrical and electronic applications for railways
105	CENELEC/TC 9X/SC 9XA	Communication, signalling and processing systems
106	IEC/TC 81	Lightning protection
107	IEC/TC 9	Electrical equipment and systems for railways
108	ILNAS/TC 102	<i>Béton</i>
109	ILNAS/TC 103	<i>Acoustique</i>
110	ILNAS/TC 105	<i>Missions de contrôle technique</i>
111	ISO/CASCO	Committee on conformity assessment
112	ISO/TC 107/SC 4	Metallic and other inorganic coatings; Hot dip coatings (galvanized, etc.)
113	ISO/TC 17	Steel
114	ISO/TC 17/SC 20	Steel; General technical delivery conditions, sampling and mechanical testing method
115	ISO/TC 17/SC 3	Steel; Steel for structural purposes
116	ISO/TC 178	Lifts, escalators and moving walks
117	ISO/TC 182	Geotechnics
118	ISO/TC 182/WG 8	Geotechnics; Borehole expansion tests
119	ISO/TC 199	Safety of machinery
120	ISO/TC 207	Environmental management
121	ISO/TC 207/SC 1	Environmental management; Environmental management systems
122	ISO/TC 207/SC 1/WG 10	Environmental management; Environmental management systems; ISO 14006 revision

N°	Technical Committees	Designation
123	ISO/TC 207/SC 1/WG 12	Environmental management; Environmental management systems; Material circulation of products
124	ISO/TC 207/SC 1/WG 8	Environmental management; Environmental management systems; Guidelines on determining environmental costs and benefits
125	ISO/TC 207/SC 4	Environmental management; Environmental performance evaluation
126	ISO/TC 207/SC 5	Environmental management; Life cycle assessment
127	ISO/TC 207/SC 7	Environmental management; Greenhouse gas management and related activities
128	ISO/TC 207/SC 7/WG 10	Environmental management; Greenhouse gas management and related activities; Investments, financing and climate change
129	ISO/TC 207/SC 7/WG 13	Environmental management; Greenhouse gas management and related activities; Radiative forcing management
130	ISO/TC 207/SC 7/WG 15	Environmental management; Greenhouse gas management and related activities; Carbon neutrality
131	ISO/TC 207/TG 1	Environmental management; Sustainable Finance Coordination
132	ISO/TC 207/WG 10	Environmental management; Environmentally conscious design
133	ISO/TC 207/WG 11	Environmental management; Green finance
134	ISO/TC 207/WG 8	Environmental management; Material flow cost accounting – General principles and framework
135	ISO/TC 209	Cleanrooms and associated controlled environments
136	ISO/TC 209/WG 11	Cleanrooms and associated controlled environments; Assessment of suitability of equipment and materials for cleanrooms
137	ISO/TC 21	Equipment for fire protection and fire fighting
138	ISO/TC 21/SC 5	Equipment for fire protection and fire fighting; fixed fire fighting systems using water
139	ISO/TC 21/SC 5/WG 10	Equipment for fire protection and fire fighting; fixed fire fighting systems using water; Valves
140	ISO/TC 21/SC 5/WG 11	Equipment for fire protection and fire fighting; fixed fire fighting systems using water; Pipes and fittings
141	ISO/TC 21/SC 5/WG 9	Equipment for fire protection and fire fighting; fixed fire fighting systems using water; Sprinklers and nozzles
142	ISO/TC 221	Geosynthetics
143	ISO/TC 268	Sustainable cities and communities
144	ISO/TC 269	Railway applications
145	ISO/TC 269/SC 1	Railway applications; Infrastructure
146	ISO/TC 269/SC 2	Railway applications; Rolling stock
147	ISO/TC 269/SC 3	Railway applications; Operations and services
148	ISO/TC 323	Circular economy
149	ISO/TC 323/WG 1	Circular economy; Terminology, principles, frameworks and management system standard
150	ISO/TC 323/WG 2	Circular economy; Practical approaches to develop and implement Circular Economy
151	ISO/TC 323/WG 3	Circular economy; Measuring and assessing circularity
152	ISO/TC 323/WG 4	Circular economy; Circular Economy in practice: experience feedback
153	ISO/TC 323/WG 5	Circular economy; Product circularity data sheet
154	ISO/TC 35/SC 12	Paints and varnishes; Preparation of steel substrates before application of paints and related products

N°	Technical Committees	Designation
155	ISO/TC 35/SC 14	Paints and varnishes; Protective paint systems for steel structures
156	ISO/TC 43/SC 1	Acoustics; Noise
157	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
158	ISO/TC 44/SC 10	Welding and allied processes; Quality management in the field of welding
159	ISO/TC 94/SC 13	Personal safety -- Protective clothing and equipment; Protective clothing
160	ISO/TC 94/SC 13/WG 3	Personal safety -- Protective clothing and equipment; Protective clothing; Protective clothing against chemicals agents
161	ISO/TC 94/SC 13/WG 6	Personal safety -- Protective clothing and equipment; Protective clothing; Protective clothing against hazardous biological agents
162	ISO/TC 94/SC 14	Personal safety -- Protective clothing and equipment; Fire-fighter's personal equipment
163	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 – March 2022

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	ARNOLDY	René	Foyer Assurances S.A.
2	AUBRY	Carole	Luxcontrol S.A.
3	BACKES	Anne-Laure	DuPont de Nemours Luxembourg S.à r.l.
4	BALL	Jean-Bernard	PASS INGENIERIE & EXPERTISE SARL
5	BARTHELME	Marc	Administration des bâtiments publics
6	BASTIEN	Jean-Claude	OTIS Luxembourg S.à r.l.
7	BELICA	Andrej	Astron Buildings S.A.
8	BENETTO	Enrico	Luxembourg Institute of Science and Technology (LIST)
9	BERTHOME	Jean-Marie	ORGANISATION GESTION ET CONTRÔLE S.A.
10	BINDER	Martin	ST QUADRAT Fall Protection S.A.
11	BLASEN	Georges	Administration des Ponts et Chaussées
12	BLONDEL	Arnaud	Stugalux Construction S.A.
13	BOERI	Pamela	Institut Luxembourgeois de Régulation
14	BOGDAN	Teodora	ArcelorMittal S.A.
15	BOLLEN	Jan	ArcelorMittal S.A.
16	BORRES	Stéphane	AlliA Insurance Brokers S.A.
17	BRAND	Catherine	CRTI-B GIE
18	BRAUN	Matthias	spannverbund Luxembourg S.A.
19	BRITZ	Robert	SISTO Armaturen S.A.
20	BRUCH	Erwin	SECOLUX S.A.
21	BUGIEL	Andreas	DuPont de Nemours Luxembourg S.à r.l.
22	BUKNYS	Arunas	FANUC Europe S.A.

N°	Name	First Name	Company
23	BUTTEL	Luc	Administration de l'Environnement
24	CAJOT	Louis-Guy	ArcelorMittal Belval & Differdange S.A.
25	CALLEJAS	David	FALLPROTEC S.A.
26	CHARLIER	Marion	ArcelorMittal Belval & Differdange S.A.
27	COLOMBIER	Yves	SOCOTEC Luxembourg S.à r.l.
28	CURA	Carlos	Seco Luxembourg S.A.
29	DAVID-CLOS	Elke	DuPont de Nemours Luxembourg S.à r.l.
30	DE CARTIER D'YVES	Patrick	SECOLUX S.A.
31	DE MULLEWIE	Georges	SECOLUX S.A.
32	DERAVET	Marcel	IFSB S.A.
33	DIEDERICH	Romain	DuPont de Nemours Luxembourg S.à r.l.
34	DIEGUEZ	Jon	Astron Buildings S.A.
35	DUMBRUCK	Roger	SECOLUX S.A.
36	DUNKER	Wolfgang	SECOLUX S.A.
37	DUYCKAERTS	Olivier	Star Navigator S.àrl.
38	EISCHEN	Christophe	AIB-Vinçotte Luxembourg a.s.b.l.
39	EITNER	Volker	Geopartner S.à r.l.
40	EL ADIB	Kamal	Luxcontrol S.A.
41	FENUCCI	Mathieu	SECO EXPERT S.A.
42	FERNANDES	Gilberto	Administration des Ponts et Chaussées
43	FERRAND	Dominique	ILNAS
44	FERRONE	Andrew	Administration des services techniques de l'agriculture
45	FERY	Bruno	EBRC S.A.
46	FOURNY	David	SOCOTEC Luxembourg S.à r.l.
47	FRANCOIS	Antoine	EBRC S.A.
48	GAMBA	Antonio	ArcelorMittal S.A.
49	GIBON	Thomas	Luxembourg Institute of Science and Technology (LIST)
50	GILL	Chris	Viking S.A.
51	GLORIEUX	Antoine	ArcelorMittal S.A.
52	GRIFFATON	Simon	PREFALUX S.A.
53	GUIPON	Mélanie	Luxembourg Institute of Science and Technology (LIST)
54	HANUS	François	ArcelorMittal Belval & Differdange S.A.
55	HEINEN	Laurent	Ordre des Architectes et Ingénieurs-Conseils
56	HEINTZ	Robert	EURASOL S.A.
57	HILGERS	Carsten	CFL
58	HIRTZ	Thierry	Administration des bâtiments publics
59	HITAJ	Claudia	Luxembourg Institute of Science & Technology
60	HUET	Stéphane	ORGANISATION GESTION ET CONTRÔLE S.A.
61	IGOS	Elorri	Luxembourg Institute of Science and Technology (LIST)
62	JUNG	Thierry	CFL

N°	Name	First Name	Company
63	KATSAVRIAS	Evangelos	Astron Buildings S.A.
64	KIRSCH	Thécla	Ökozentler Pafendall A.s.b.l.
65	KNEIP	André	Foyer Assurances S.A.
66	KOLBER	Carine	Simon-Christiansen & Associés S.A.
67	KOLODKA	Marc	CFL
68	LAMBERT	Gaetan	Lifteurop S.A.
69	LAMBERT*	Arnaud	Tractel Secalt S.A.
70	LANG	Eva-Maria	Chambre des Métiers
71	LEQUEUX	Jean-Marie	EQIOM BETONS S.A.
72	LOSANGE	Christophe	CODIPROLUX S.A.
73	MAISONNEUVE	Gaétan	Cabinet d'expertise LNExp
74	MAJERUS	Samuel	Simon-Christiansen & Associés S.A.
75	MANGERS	Jeff	Université du Luxembourg
76	MARAI	Péter	Lindab S.A.
77	MARTINS	João	ArcelorMittal Commercial RPS S.à.r.l.
78	MUELLER	Ralph	CFL
79	NEY	Michel	BETONS FEIDT S.A.
80	NOËL	Xavier	Vinçotte Luxembourg A.s.b.l.
81	NOWAK	Stéphane	DuPont de Nemours Luxembourg S.à r.l.
82	OBIALA	Renata	ArcelorMittal S.A.
83	ODENBREIT	Christoph	Université du Luxembourg
84	OLY	René	Astron Buildings S.A.
85	PASCUAL	Mickaël	Neobuild S.A.
86	PETIT	Marc	Administration des bâtiments publics
87	PETRY	Jérôme	Ministère de l'Economie
88	PETUCCO	Claudio	Luxembourg Institute of Science and Technology (LIST)
89	POCHET	Albin	Goodyear S.A.
90	POLETTI	Benoît	INCERT GIE
91	PONCIN	Marc	Luxcontrol S.A.
92	PREIS	Alain	SECOLUX S.A.
93	PRÜM	Cécile	ArcelorMittal Belval & Differdange S.A.
94	RADEMACHER	Dennis	ArcelorMittal Commercial Sections S.A.
95	RECH	Christian	CIMALUX S.A.
96	RECKINGER	Georges	Schroeder & Associés S.A.
97	RENAULD	Sébastien	EBRC S.A.
98	RENAULT	Thibaut	Energie & Environnement
99	RICHARD	Sébastien	EBRC S.A.
100	ROCK	Annick	Ministère du Logement
101	RUGANI	Benedetto	Luxembourg Institute of Science and Technology (LIST)
102	RÜTZE	Roger	Enovos Luxembourg S.A.
103	SAIED	Mahmoud	ArcelorMittal Belval & Differdange S.A.

N°	Name	First Name	Company
104	SAYYAREH	Shahin	Université du Luxembourg
105	SCHANTZEN	Steve	Administration des bâtiments publics
106	SCHAUBROECK	Thomas	Luxembourg Institute of Science and Technology (LIST)
107	SCHINTGEN	Guy	/
108	SCHLEICH	Jean-Baptiste	/
109	SCHUMACHER	Kim	Ministère de l'Environnement, du Climat et du Développement durable
110	SCHWALL	François	Neobuild S.A.
111	SIMON	Claude	CIMALUX S.A.
112	STATUCKI	David	BETAVI S.à.r.l.
113	STEICHEN	Claude	Administration des Ponts et Chaussées
114	SYRETT	Alison	Sigma 4 Constructions S.A.
115	TENEUL	Jean-François	DuPont de Nemours Luxembourg S.à r.l.
116	THILLEN	Ines	MFPRA - Service national de la sécurité dans la fonction publique
117	THYES	Léon	IN-SITU S.A.
118	TIBOLT	Mike	ArcelorMittal Belval & Differdange S.A.
119	TOMASINI	Folco	FOLCO TOMASINI S.à r.l.
120	TRESSER	Markus	Luxembourg Institute for Building and Technology S.A.
121	URIOS	Thomas	ArcelorMittal Belval & Differdange S.A.
122	VERHAMME	Geoffroy	SECOLUX S.A.
123	VIOLA	Moreno	CRTI-B GIE
124	WALDMANN-DIEDERICH	Danièle	Université du Luxembourg
125	WAUTELET	Thibaut	+Impakt Luxembourg S.à.r.l.
126	WEBER	Ernst	ArcelorMittal Commercial RPS S.à.r.l.
127	WEYDERT	Romain	RW CONSULT S.à.r.l.
128	WOLF	Sébastien	ArcelorMittal Bissen & Bettembourg S.A.
129	WOLTER	Thomas	Chaux de Contern S.A.
130	YANG	Jie	Université du Luxembourg
131	ZANON	Riccardo	ArcelorMittal S.A.
132	ZDJELAR	Eric	ORGANISATION GESTION ET CONTRÔLE S.A.
133	ZIGNALE	Daniel	BIM Consult S.à.r.l.
134	ZILLGEN	Heiko	ArcelorMittal S.A.
135	ZINCK	Sébastien	Luxembourg Institute of Science and Technology (LIST)

Table 2: List of national delegates in the construction sector – March 2022

CONCLUSIONS

Construction is one of the growth sectors identified in the “[national standardization strategy 2020-2030](#)”. ILNAS actively supports national stakeholders willing to be involved in technical standardization for this sector, in line with the “[Luxembourg’s policy on technical standardization in the construction sector 2020-2025](#)”. The main objective of this policy is to foster and strengthen the national construction sector’s involvement in the standardization domain. To achieve this, ILNAS is conducting three intertwined projects:

- a) Promoting technical standardization in the construction sector;
- b) Emphasizing the value of technical standardization in the construction sector and enhancing the involvement of the market in standards development;
- c) Supporting and strengthening education about standardization and related research activities.

In this context, ILNAS is publishing this new version of the standards analysis for the construction sector. This second edition aims at helping national stakeholders discover the sector’s active technical standardization committees. It is designed to facilitate the identification of standardization activities relevant to their business through a classification by topic.

Any interested stakeholder can also consult the full content of published standards free-of-charge (in read-only mode) on [ILNAS reading stations](#) or buy them on the [ILNAS e-shop](#). In addition, ILNAS offers the possibility to each national economic actor to contribute to the development of national, European and international standards by registering as a national delegate through ILNAS. Registration is free-of-charge in Luxembourg and can be done using the [ILNAS/OLN/F001a](#) form. Free [video trainings](#) are also available on the ILNAS YouTube channel in order to get acquainted with technical standardization and related services offered at national level.

The construction sector is already one of the most active in terms of national standardization development, with several national standards already published, such as the recent [ILNAS 103-1:2022, “Acoustique – Critères de Performance pour les Bâtiments d’habitation”](#), developed by the technical committee ILNAS/TC 103. ILNAS welcomes any new proposal for national standards in order to support the construction sector and its stakeholders.

Finally, ILNAS, with the support of ANEC GIE, intends to strengthen education and research activities in the area of technical standardization for the construction sector. This includes the development, as of 2022, of standardization-related trainings in sub-domains of construction that receive the most attention from national stakeholders. ILNAS and the University of Luxembourg have also begun implementing a [new research program](#) whose objective is to analyze and to extend standardization and Digital Trust knowledge across the three main sectors that are ICT, construction, and aerospace, with ICT playing a transversal role.

The three projects of the “Luxembourg’s policy on technical standardization in the construction sector 2020-2025” will allow the national market to make rapid progress and reap the benefits of technical standardization effectively. In the construction sector, a proper understanding of the stakes associated with standardization is key to adopting the appropriate position within the market and benefit from all related opportunities. Driven by the motto of the National Standardization Strategy 2020-2030: “Technical standardization – An inclusive tool for performance and excellence to serve the economy”, ILNAS, with the support of ANEC GIE, stands ready to encourage and assist each initiative in this process.





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ILNAS

Institut Luxembourgeois de la
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Agence pour la Normalisation
et l'Economie de la Connaissance