

Gain Access to the Single Market of the European Union with AENOR (UNE) on Compass®

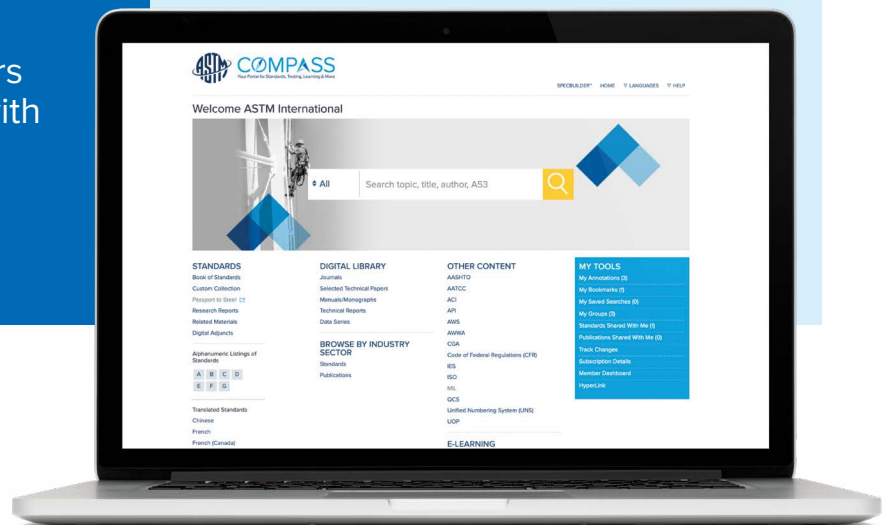
Prevent technical trade barriers and increase market access with Harmonized Standards.

www.astm.org/aenor

Why access ENs on ASTM Compass®?

- Compliance with EU legislation is easier than ever
- Guarantee you're using the latest ENs available
- Give your entire organization continual access with no limits on simultaneous users

Unlock entry into markets that follow European Union standards to enable your goods and services to move more freely.



In addition to providing 44+ collections of all the harmonized standards (EN) you would need to comply with EU legislation, AENOR (UNE) on Compass® gives you powerful workflow tools to help your teams collaborate and bring products to market more efficiently.

Collections include content covering:

- [Agriculture](#)
- [Aircraft and Space Vehicle Engineering](#)
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- [Telecommunications, Audio and Video Engineering](#)
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- [Textile and Leather Technology](#)
- [Wood Technology](#)

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Sectorial Collections (English)**Description****Agriculture**

- Farming and forestry
 - Farm building, structures, and installations
 - Agricultural machines, implements and equipment,
 - Fertilizers including soil conditioners and culture medium, pesticides and other agrochemicals
 - Animal feeding stuffs
- Bee-keeping including equipment and installations for bee-keeping
 - Hunting including equipment and installations for hunting
 - Fishing and fish breeding
 - Tobacco, tobacco products and related equipment

Aircraft and Space Vehicle Engineering

- Aircraft and space vehicles in general including aircraft performance, flight dynamics, etc.,
 - Materials for aerospace construction
 - Fasteners for aerospace construction
 - Components for aerospace construction including bearings, rod ends and other mechanical components
 - Coatings and related processes used in aerospace industry
 - Structure and structure elements
 - Aerospace engines and propulsion systems including fuel systems
- Aerospace electric equipment and systems including Avionics, Aerospace fluid systems and components
 - On-board equipment and instruments including navigation instruments and telecommunications equipment
 - Passenger and cabin equipment
 - Cargo equipment
 - Space systems and operations including space data and information transfer systems, and ground support equipment for launch site operations

Building Materials

- Construction industry
 - Physical planning
 - Town planning
 - Building
 - Elements of building
 - Structures of buildings including design, loading on and calculation of structures
 - External structures including fences, gates, arches, sheds, garages, etc.,
 - Electricity supply systems
 - Heat generators and emitters
 - Air conditioning
 - Sanitary appliances
 - Iron and Steel
- Closure of frames in buildings and related products
 - Permanent metallic structures
 - Gaseous fuels and gas and installations apparatus
 - Lifts, escalators and moving walks
 - Waterproofing materials for building construction
 - Corrosion and protection against corrosion of metallic materials
 - Precast cement and concrete products
 - Water engineering
 - Cast iron pipes, metallic tapware, valves and fittings

Chemical Technology

- Production in the chemical industry including plant layout and services, process design and control, processing operations, security measures, etc.
- Analytical chemistry, Inorganic chemicals, Organic chemicals, Products of the chemical industry
 - Equipment for the chemical industry

Civil Engineering

- Civil engineering in general
- Earthworks
- Excavations
- Foundation construction
- Underground works including geotechnics
- External water conveyance systems including buried and above ground installations
- External sewage systems
- Bridge construction
- Tunnel construction
- Road engineering
- Construction of railways including the construction of tramways, funicular railways, cableways, rail traffic control equipment and installations, etc.,
- Construction of ropeways
- Construction of airports including air transport control equipment and installations
- Construction of waterways, ports and dykes including river embankments, water transport control equipment and installations, etc.,
- Hydraulic construction,
- Building accessories including locks, buzzers, bells, bolts, door and window hardware, etc.,
- Construction technology including measuring methods, construction sites, demolition of structures, etc.,
- Construction equipment including scaffolding, mixers for concrete and mortar, etc.

Construction Materials

- Construction materials in general
- Mining and quarrying
- Natural stone products and materials
- Binders
- Sealing materials
- Geotextiles
- Synthetic materials
- Thermal insulation of buildings
- Thermal and sound insulating materials
- Cement
- Gypsum
- Lime
- Mortar
- Waxes
- Bituminous materials and other petroleum products
- Roofs
- Products in fiber-reinforced cement
- Concrete structures
- Cement, Concrete and concrete components
- Walls
- Partitions
- Facades
- Ceilings
- Floors
- Stairs
- Acoustics in building
- Sound insulation
- Earthworks
- Excavations
- Foundation construction
- Aggregates
- Road construction materials
- Clay products and materials
- Ceramic tiles
- Ceramic and terracotta building products
- Doors and windows
- Chimneys, shafts, ducts,
- Adhesives, Pigments and extenders
- Construction materials including sustainability of construction materials
- Protection of and in buildings
- Installations in buildings
- Lighting including oil and gas lamps, Interior finishing

Domestic and Commercial Equipment, Entertainment, Sports

- Includes standards on Home economics in general including consumer information
- Domestic electrical appliances in general including water-bed heaters and electric blankets
- Kitchen equipment
- Laundry appliances including washing-machines, dry-cleaners, driers, ironing and pressing appliances, etc.,
- Domestic, commercial and industrial heating appliances including thermal storage room heating appliances
- Automatic controls for household use, shop fittings, furniture including upholstery, mattresses, office furniture, school furniture, etc.
- Ladders
- Floor coverings
- Home Textiles
- Linen including duvets, blankets, bedding
- Body care equipment including hair-driers, razors, shavers, toothbrushes, massage appliances, radiation skin treatment appliances, etc.
- Miscellaneous domestic and commercial equipment including scissors, aquarium equipment, articles for domestic animals, battery chargers, mops, insect electrocutors, lighters, matches, paper clips, pens, pencils, etc.
- Equipment for Children including child safety requirements for other household equipment, Items of art and handicrafts
- Cultural property and heritage including conservation of collections and equipment and materials for creating items of art and handicrafts
- Equipment for entertainment
- Sports equipment and facilities

Electronics

- Electronic components in general
- Resistors
- Capacitors
- Semiconductor devices
- Electronic tubes
- Electronic display devices, Including liquid crystal displays
- Piezoelectric devices
- Electric filters
- Printed circuits and boards
- Electronic component assemblies including preassembled modules Integrated circuits
- Microelectronics including electronic chips, logical and analogue microstructures
- Electromechanical components for electronic and telecommunications equipment
- Mechanical structures for electronic equipment
- Optoelectronics
- Laser equipment including photoelectric tubes and cells

Electrical Engineering

- Electrical engineering in general including voltages, general electrical terminology, electrical documentation, electrical tables, safety, fire hazard testing, etc.
- Magnetic materials, Insulating materials, Insulating fluids
- Semiconducting materials
- Superconductivity and conducting materials
- Electrical wires and cables, Insulation
- Components for electrical equipment
- Electrical accessories
- Switchgear and controlgear
- Lamps and related equipment
- Rotating machinery
- Transformers
- Reactors
- Rectifiers
- Converters
- Stabilized power supply including semiconductor converters, Galvanic cells and batteries
- Power transmission and distribution networks
- Electrical equipment for working in special conditions
- Electric traction equipment including railway electric fixed installations

Energy and Heat Transfer Engineering

- Energy and heat transfer engineering in general
- Energy efficiency
- Energy conservation in general including energy audits, Internal combustion engines
- Gas and steam turbines
- Steam engines, Burners
- Boilers
- Fuel cells
- Hydrogen technologies
- Heat pumps
- Power stations in general including thermal power plants
- Nuclear energy engineering
- Hydraulic energy engineering including hydraulic turbines
- Solar energy engineering including photovoltaic energy systems
- Wind turbine energy systems including generation of electrical energy
- Biological sources and alternative sources of energy, Refrigerating technology, Heat recovery. Thermal insulation

Environment, Health Protection, and Safety

- Protection against excessive pressure including safety valves, bursting disc devices, etc.
- Protection against electric shock
- Live working including tools for working with voltages
- Radiation protection including protection against radio frequency radiation
- Protection against dangerous goods including performance requirements for dangerous goods, their handling, storage, transportation, marking, labelling, etc.
- Protection against crime including security services, security procedures, burglar alarm devices, burglary resisting materials and equipment, bullet resisting materials and equipment, anti-theft devices for vehicles, safes, strong rooms, etc.
- Alarm and warning systems, Protective equipment

Fluid Systems and Components for General Use

- Fluid storage devices
- Pipeline components and pipelines
- Valves
- Pumps
- Fluid power systems
- Ventilators
- Fans
- Air-conditioners, Compressors and pneumatic machines
- Vacuum technology including vacuum pumps

Food Technology

- Processes in the food industry including food hygiene and food safety
- Food products in general
- General methods of tests and analysis for food products
- Cereals, pulses and derived products including grains, corn, flours, baked products, etc.
- Fruits, Vegetables including canned, dried and quick-frozen fruits and vegetables
- Milk and milk products
- Meat, meat products and other animal produce including frozen products
- Tea, Coffee, Cocoa Beverages
- Sugar, Sugar products
- Starch
- Chocolate
- Edible oils and fats
- Oilseeds Spices and condiments
- Food additives
- Prepackaged and prepared foods including baby food
- Sensory analysis
- Materials and articles in contact with foodstuffs including catering containers, and materials and articles in contact with drinking water
- Plants and equipment for the food industry

Glass and Ceramic Industries

- Processes in the glass and ceramics industries
- Glass
- Ceramics, Including glass-ceramics, Refractories including ceramic refractories
- Equipment for the glass and ceramics industries

Generalities, Terminology, Standardization, and Documentation	<ul style="list-style-type: none"> – Terminology, Vocabularies, Quantities and units – Color coding – Safety colors in context of graphical symbols, character symbols, graphical symbols 	<ul style="list-style-type: none"> – Technical drawings – Technical product documentation, user guides, manuals, product specification
Health Care Technology	<ul style="list-style-type: none"> – Medical sciences and health care facilities in general – Medical equipment, Dentistry, Sterilization and disinfection – Laboratory medicine – Pharmaceuticals – Hospital equipment including hospital beds, surgical tables, medical garments, medical gloves, containers for sharp disposal, etc. 	<ul style="list-style-type: none"> – First aid including kits, equipment, facilities and medical transport for first aid – Aids for disabled or handicapped persons including aids for elderly people – Birth control – Mechanical contraceptives – Veterinary medicine including equipment specific to veterinary medicine
Image Technology	<ul style="list-style-type: none"> – Optical equipment including microscopes, telescopes, binoculars, optical materials, optical components and optical systems – Photography 	<ul style="list-style-type: none"> – Cinematography – Document imaging applications including micrographic, electronic and optical applications, Graphic technology
Information Technology	<ul style="list-style-type: none"> – Information technology (IT) in general, Including general aspects of IT equipment – IT Security including encryption, Information coding including coding of audio, picture, multimedia and hypermedia information, bar coding, etc. – Languages used in information technology 	<ul style="list-style-type: none"> – Software including software development, documentation and use – Open systems interconnection (OSI), Networking including local area networks (LAN), metropolitan area networks (MAN), wide area networks (WAN), etc. – Computer graphics – Cloud computing, Applications of information technology
Leisure and Sports	<ul style="list-style-type: none"> – Playgrounds, outdoor and water sports equipment – Sports facilities – Equipment for children – Toys – Public buildings – Theatre, stage and studio equipment 	<ul style="list-style-type: none"> – Camping equipment and camp-sites, – Cooking ranges, working tables, ovens and similar appliances – Gas heaters – Lifejackets, buoyancy aids and flotation devices
Materials Handling Equipment	<ul style="list-style-type: none"> – Lifting equipment – Continuous handling equipment – Industrial trucks including fork-lift trucks, sliding platforms, etc. – Storage equipment including loading devices, shelves, etc. 	<ul style="list-style-type: none"> – Earth-moving machinery including tractors, excavators, loaders, graders, etc. – Equipment for manual handling including shovels, spades, crowbars, picks, etc.

Manufacturing Engineering	<ul style="list-style-type: none"> – Includes standards on Manufacturing forming processes – Additive manufacturing – Industrial automation systems – Machine tool systems – Machine tools – Cutting tools including industrial diamonds – Chipless working equipment 	<ul style="list-style-type: none"> – Hand-held tools – Welding, brazing and soldering including gas welding, electric welding, plasma welding, electron beam welding, plasma cutting, etc. – Industrial furnaces – Heat treatment – Surface treatment and coating including processes and equipment for surface treatment and coating
Mechanical Systems and Components for General Use	<ul style="list-style-type: none"> – Characteristics and design of machines, apparatus, equipment including reliability, dependability, maintainability, durability, etc. – Screw threads, Fasteners, Hinges, eyelets and other articulated joints – Bearings, Shafts and couplings – Seals – glands 	<ul style="list-style-type: none"> – – Housings – enclosures – other machine parts – Gears – Flexible drives and transmissions – Rotary-reciprocating mechanisms and their parts including pistons, piston-rings, crankshafts, etc. for general engineering, Lubrication systems
Metallurgy	<ul style="list-style-type: none"> – Production of metals – Testing of metals – Corrosion of metals – Non-Ferrous metals including classification, designation, sampling, chemical analysis, etc. 	<ul style="list-style-type: none"> – Iron and steel products – Products of non-ferrous metals including products of non-ferrous metal alloys – Powder metallurgy including sintered metal materials and hard metals – Equipment for the metallurgical industry
Metrology and Measurement, Physical Phenomena	<ul style="list-style-type: none"> – Metrology and measurement in general including measuring instruments in general, preferred numbers, standard measures, general aspects of reference materials, etc. – Linear and angular measurements, Measurement of volume, mass, density, viscosity including measuring instruments – Measurement of time, velocity, acceleration, angular velocity including measuring instruments – Measurement of force, weight and pressure including measuring and weighing instruments 	<ul style="list-style-type: none"> – Measurement of fluid flow including measuring instruments and installations – Acoustics and acoustic measurements including measuring instruments and testing equipment – Vibrations, shock and vibration measurements including measuring instruments and installations – Optics and optical measurements, – Thermodynamics and temperature measurements – Electricity – Magnetism – Electrical and magnetic measurements, Radiation measurements including dosimetry
Military Affairs, Military Engineering, Weapons	<ul style="list-style-type: none"> – Military in general including defense procurement, defense standardization, etc. 	<ul style="list-style-type: none"> – Military engineering – Weapons
Mining and Minerals	<ul style="list-style-type: none"> – Mining and quarrying including exploration, opening-up, development, working of mineral deposits, drilling, construction of mines, mining operations, processing of minerals, etc. 	<ul style="list-style-type: none"> – Coals including lignites Metalliferous minerals and their concentrates, Non-metalliferous minerals including mica, fluorspar, etc. – Mining equipment, Equipment for processing of minerals including equipment for milling, sizing, separation, flotation, concentration, etc.

Natural and Applied Sciences	<ul style="list-style-type: none"> – Mathematics – Physics – Chemistry – Astronomy – Geodesy – Geography – Geology 	<ul style="list-style-type: none"> – Meteorology – Hydrology – Biology – Botany – Zoology including biotechnology, Microbiology, Nanotechnologies, Forensic science
Office Machines	<ul style="list-style-type: none"> – Office machines including typewriters, dictation equipment, addressing machines, letter opening machines, letter folding machines, postal franking machines, their ribbons and other accessories, etc. 	
Packaging and Distribution of Goods	<ul style="list-style-type: none"> – Packaging and distribution of goods in general – Packaging materials and accessories including wrappers, paper, films, foils, cords, sealing devices, cushioning, etc. – Spools, Bobbins including holders, supports, etc., for externally wound or mounted material – Sacks, Bags including sachets, envelopes – Bottles, Pots, Jars, Small containers for liquids and their closures – Cans, Tins, Tubes, Light gauge metal and plastics containers 	<ul style="list-style-type: none"> – Aerosol containers – Barrels, Drums, Canisters, Containers mainly for transportation of fluids including also casks, pails, large tin cans for shipping materials, etc., – Cases, Boxes, Crates, Containers for solid goods or objects and bulk materials – Freight distribution of goods – Packaging machinery including labelling, marking, branding, filling, sealing machines, etc. – Storing, Warehousing, Distribution and vending machines including distribution of tickets, food, beverages, tobacco products, etc.
Paint and Color Industries	<ul style="list-style-type: none"> – Paint coating processes – Paints and varnishes including coating powders, paint coatings and protective paint systems 	<ul style="list-style-type: none"> – Paint ingredients – Inks – Printing inks – Paint coating equipment
Paper Technology	<ul style="list-style-type: none"> – Paper production processes including paper recycling – Pulps, Paper and board 	<ul style="list-style-type: none"> – Paper products including paper based stationery – Equipment for the paper industry
Petroleum and Related Technologies	<ul style="list-style-type: none"> – Extraction and processing of petroleum and natural gas – Crude petroleum – Natural gas – Petroleum products in general – Lubricants, industrial oils and related products including mineral oils, fluids for metal working and for temporary protection against corrosion – Hydraulic fluids 	<ul style="list-style-type: none"> – Waxes – bituminous materials and other petroleum products – Fuels, Equipment for petroleum and natural gas industries – Petroleum products and natural gas handling equipment including petroleum and natural gas storage devices, distribution systems, pipelines, petrol stations, dispensing devices, etc.
Precision Mechanics, Jewellery	<ul style="list-style-type: none"> – Precision mechanics including microsystems, Horology, Jewellery including precious metals, precious and semi-precious stones 	

Quality	<ul style="list-style-type: none"> – Quality, Company organization and management – Management systems – Vocabularies – Quality in general 	<ul style="list-style-type: none"> – Product and company certification, conformity assessment, application of statistical methods – Governance and ethics – Quality and environmental management in health care
Railway Engineering	<ul style="list-style-type: none"> – Railway engineering in general – Materials and components for railway engineering – Railway rolling stock including materials, components, electric and electronic equipment for railway rolling stock 	<ul style="list-style-type: none"> – Rails and railway components including track components – Cableway equipment including ropeway equipment – Equipment for railway/cableway construction and maintenance – Metro, tram and light rail equipment
Road Vehicles Engineering	<ul style="list-style-type: none"> – Road vehicles in general including testing and recycling of road vehicles – Road vehicle systems, Internal combustion engines for road vehicles, Commercial vehicles – Passenger cars – Caravans and light trailers – Electric road vehicles including their components and systems 	<ul style="list-style-type: none"> – Motorcycles and mopeds including their components and systems – Cycles including their components and systems – Special purpose vehicles including waste collection vehicles and components and systems for special purpose vehicles – Diagnostic, maintenance and test equipment including repairing facilities
Rubber and Plastic Industries	<ul style="list-style-type: none"> – Manufacturing processes in the rubber and plastics industries – Raw materials for rubber and plastics – Rubber – Plastics – Cellular materials 	<ul style="list-style-type: none"> – Reinforced plastics – Rubber and plastics products – Tires including tubes and valves – Adhesives including adhesive tapes – Equipment for the rubber and plastics industries
Safety	<ul style="list-style-type: none"> – Fire safety – Ergonomics and pcicosociology, – Personal protective means – Alarm systems – Fire hazard testing – Nuclear energy – Nuclear technologies and radiological protection – Physical security – Security locks and cash-degradation systems – Potentially explosive atmospheres – Explosion prevention and protection – Safety of Machinery 	<ul style="list-style-type: none"> – Electrical installations and protection against electric shock – Mechanical vibration and shock – Cables to be used by electrical utilities – Physical security – Safety in the storage, handling, and processes of chemical products – Quality and safety in healthcare services – Degrees of protection provided by enclosures – Electro acoustics – packaging – Horizontal aspects and environmental management

Services	<ul style="list-style-type: none"> – Intelligent transport systems – Translation services – research, technical development and innovation activities (R&D&I) – Supportive services for the independent performance of activities of daily living and for people needing assistance with activities of daily living – Postal services 	<ul style="list-style-type: none"> – Logistic and transport – Market research and opinion studies – Catering services – Universal accessibility and design for all – Retail trade – Hotels and tourist apartments – Quality and safety in healthcare services – Health tourism establishments and services
Shipbuilding and Marine Structures	<ul style="list-style-type: none"> – Shipbuilding and marine structures in general including offshore structures, except offshore structures for petroleum and natural gas industries, and seabed mining – Seagoing vessels including their systems and components 	<ul style="list-style-type: none"> – Inland navigation vessels including their systems and components – Small craft including small craft systems and components, and life-saving appliances
Telecommunications, Audio, and Video Engineering	<ul style="list-style-type: none"> – Telecommunications in general including infrastructure – Telecommunication services – Applications including supplementary services, service aspects and associated legal traceability aspects – Telecommunication systems including network (system) aspects – Telecommunication terminal equipment – Radiocommunications – Mobile services, Integrated Services Digital Network (ISDN) 	<ul style="list-style-type: none"> – Electromagnetic compatibility (EMC) including radio interference – Components and accessories for telecommunications equipment – Special measuring equipment for use in telecommunications, Audio, video and audiovisual engineering – Television and radio broadcasting – Fibre optic communications – Telecontrol – Telemetry including Supervising, Control and Data Acquisition System (SCADA)
Testing	<ul style="list-style-type: none"> – Test conditions and procedures in general – Environmental testing including testing equipment – Mechanical testing including testing equipment 	<ul style="list-style-type: none"> – Electrical and electronic testing including testing equipment – Non-destructive testing including testing equipment: industrial apparatus for X-ray and gamma radiography, penetrant flaw detectors, etc. – Particle size analysis. Sieving including test sieves and porosimetry
Textile and Leather Technology	<ul style="list-style-type: none"> – Processes of the textile industry – Textile auxiliary materials including feathers and down – Textile fibres 	<ul style="list-style-type: none"> – Products of the textile industry – Materials for the reinforcement of composites, Textile machinery, Leather technology including fur and imitation leather
Wood Technology	<ul style="list-style-type: none"> – Wood technology processes including logging and wood treatment – Wood, sawlogs and sawn timber – Wood-based panels 	<ul style="list-style-type: none"> – Semi-manufactures of timber including parquet, wood paving, handles, etc., – Cork and cork products, Woodworking equipment