



*CEN/TC 346*  
*Conservation of Cultural Property*

EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG



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# CEN

- CEN (European Committee for Standardization) (National standards bodies of 27 EU countries, not just EU; central secretariat in Brussels).
- “CEN's mission is to promote voluntary technical harmonization in Europe in conjunction with worldwide bodies and its partners in Europe.”

# Standard

- A standard is a document that sets out requirements for a specific item, material, component, system or service, or describes in detail a particular method or procedure. Standards facilitate international trade by ensuring compatibility and interoperability of components, products and services. They bring benefits to businesses and consumers in terms of reducing costs, enhancing performance and improving safety.
- Standards are developed and defined through a process of sharing knowledge and building consensus among technical experts nominated by interested parties and other stakeholders - including businesses, consumers and environmental groups, among others.
- **The formal definition of a standard is a “document, established by consensus and approved by a recognized body, that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context”.**

# Standards

- There are several different types of standards.
- Standards include requirements and/or recommendations in relation to products, systems, processes or services.
- Standards can also be a way to describe a measurement or test method or to establish a common terminology within a specific sector.

# Use of Standards

- Standards are not mandatory. They are voluntary. In principle.
- But they can be called upon!
  - If, when calling for a tender for a project the contractor demands that specific standards be applied.
  - When public / governmental / international bodies specify the use of standards in specific procedures.
  - When the EU makes reference to standards in framework directives.

# European legislation - Framework Directives



- To support the implementation of the directive 2010/31 EU (Energy Performance of Buildings Directive -EPBD), recast of directive 2002/91/EC, the European Commission issued in December 2010 a Standardization [Mandate M/480](#) to CEN, CENELEC and ETSI for the elaboration and adoption of standards for a methodology calculating the integrated energy performance of buildings and promoting the energy efficiency of buildings.
- **The European Standard EN 15232** (“Energy performance of buildings – Impact of Building Automation, Controls and Building Management”) was compiled in conjunction with the Europe-wide implementation of the directive for energy efficiency in buildings (**Energy Performance of Buildings Directive EPBD) 2002/91/EG**. The standard describes methods for evaluating the influence of building automation and technical building management on the energy consumption of buildings.
- So TC 346 is producing [prEN 16883](#) (WI=00346033)  
Conservation of cultural heritage - Guidelines for improving the energy performance of historic buildings



# European legislation - Framework Directives



- The Commission establishes environmental quality standards so as to limit the concentrations of certain chemical substances that pose a significant risk to the environment or to human health in surface waters in the European Union (EU).
- The 2000/60/EG 'The water Directive' extensively demands use of numerous CEN standard on river hydro morphology (CEN TC 230 - Technical Committee on 'Water Analysis').
- An example of mandatory standards are those for materials and products used in construction and listed under the [Construction Products Directive](#). The [CE mark](#) is a declaration by the manufacturer that a product complies with the respective [EU directive](#) and hence the harmonized standard(s) referenced by the directive(s).
- The so called standards on the UNESCO underwater convention are in a technical annex, but are just as binding as the Treaty text.



# Cultural heritage and standards

- A specific European standardisation activity in the field of conservation of cultural heritage is essential to acquire a common unified scientific approach to the problems relevant to the preservation and conservation of the cultural property.
- The scope of CEN TC 346 is to establish standards in the field of the processes, practices, methodologies and documentation of conservation of tangible cultural heritage to support its preservation, protection and maintenance and to enhance its significance.
- This includes standardisation on the characterisation of deterioration processes and environmental conditions for cultural heritage and the products and technologies used for the planning and execution of conservation, restoration, repair and maintenance.



# Existing standards

Committee	Reference, Title	Status
CEN/TC 346	<a href="#">CEN/TS 16163:2014</a> (WI=00346019) Conservation of Cultural Heritage - Guidelines and procedures for choosing appropriate lighting for indoor exhibitions	Published
CEN/TC 346	<a href="#">EN 15757:2010</a> (WI=00346008) Conservation of Cultural Property - Specifications for temperature and relative humidity to limit climate-induced mechanical damage in organic hygroscopic materials	Published
CEN/TC 346	<a href="#">EN 15758:2010</a> (WI=00346009) Conservation of Cultural Property - Procedures and instruments for measuring temperatures of the air and the surfaces of objects	Published

<p>CEN/TC 346</p>	<p><b><a href="#">EN 15759-1:2011</a> (WI=00346010)</b>  <b>Conservation of cultural property - Indoor climate - Part 1: Guidelines for heating churches, chapels and other places of worship</b></p>	<p>Published</p>
<p>CEN/TC 346</p>	<p><b><a href="#">EN 15801:2009</a> (WI=00346004)</b>          Conservation of cultural property - Test methods - Determination of water absorption by capillarity</p>	<p>Published</p>
<p>CEN/TC 346</p>	<p><b><a href="#">EN 15802:2009</a> (WI=00346005)</b>          Conservation of cultural property - Test methods - Determination of static contact angle</p>	<p>Published</p>
<p>CEN/TC 346</p>	<p><b><a href="#">EN 15803:2009</a> (WI=00346006)</b>          Conservation of cultural property - Test methods - Determination of water vapour permeability (<math>\delta p</math>)</p>	<p>Published</p>
<p>CEN/TC 346</p>	<p><b><a href="#">EN 15886:2010</a> (WI=00346007)</b>          Conservation of cultural property - Test methods - Colour measurement of surfaces</p>	<p>Published</p>

CEN/TC 346	<a href="#">EN 15898:2011</a> (WI=00346002) <b>Conservation of cultural property - Main general terms and definitions</b>	Published
CEN/TC 346	<a href="#">EN 15946:2011</a> (WI=00346016) Conservation of cultural property - Packing principles for transport	Published
CEN/TC 346	<a href="#">EN 15999-1:2014</a> (WI=00346035) Conservation of cultural heritage - Guidelines for design of showcases for exhibition and preservation of objects - Part 1: General requirements	Published
CEN/TC 346	<a href="#">EN 16085:2012</a> (WI=00346017) Conservation of Cultural property - Methodology for sampling from materials of cultural property - General rules	Published
CEN/TC 346	<a href="#">EN 16095:2012</a> (WI=00346012) Conservation of cultural property - Condition recording for movable cultural heritage	Published

CEN/TC 346	<b><a href="#">EN 16096:2012</a> (WI=00346013)</b> <b>Conservation of cultural property - Condition survey and report of built cultural heritage</b>	Published
CEN/TC 346	<b><a href="#">EN 16141:2012</a> (WI=00346014)</b> Conservation of cultural heritage - Guidelines for management of environmental conditions - Open storage facilities: definitions and characteristics of collection centres dedicated to the preservation and management of cultural heritage	Published
CEN/TC 346	<b><a href="#">EN 16242:2012</a> (WI=00346020)</b> Conservation of cultural heritage - Procedures and instruments for measuring humidity in the air and moisture exchanges between air and cultural property	Published
CEN/TC 346	<b><a href="#">EN 16302:2013</a> (WI=00346021)</b> Conservation of cultural heritage - Test methods - Measurement of water absorption by pipe method	Published
CEN/TC 346	<b><a href="#">EN 16322:2013</a> (WI=00346022)</b> Conservation of Cultural Heritage - Test methods - Determination of drying properties	Published



CEN/ TC 346	<a href="#">EN 16455:2014</a> (WI=00346026) Conservation of cultural heritage - Extraction and determination of soluble salts in natural stone and related materials used in and from cultural heritage	Published
CEN/ TC 346	<a href="#">EN 16515:2015</a> (WI=00346027) Conservation of Cultural Heritage - Guidelines to characterize natural stone used in cultural heritage	Published
CEN/ TC 346	<a href="#">EN 16572:2015</a> (WI=00346024) Conservation of cultural heritage - Glossary of technical terms concerning mortars for masonry, renders and plasters used in cultural heritage	Published
CEN/ TC 346	<a href="#">EN 16581:2014</a> (WI=00346001) Conservation of Cultural Heritage - Surface protection for porous inorganic materials - Laboratory test methods for the evaluation of the performance of water repellent products	Published
CEN/ TC 346	<a href="#">EN 16648:2015</a> (WI=00346018) Conservation of cultural heritage - Transport methods	Approved
CEN/ TC 346	<a href="#">prEN 16682</a> (WI=00346034) Conservation of Cultural Heritage - Guide to the measurements of moisture content in materials constituting movable and immovable cultural heritage	Under Approval

CEN/TC 346	<a href="#">prEN 16782</a> (WI=00346042) Conservation of cultural heritage - Cleaning of porous inorganic materials - Laser cleaning techniques for cultural heritage	Under Approval
CEN/TC 346	<a href="#">prEN 16790</a> (WI=00346028) Conservation of cultural heritage - Integrated pest management (IPM) for protection of cultural heritage	Under Approval
CEN/TC 346	<a href="#">prEN 16853</a> (WI=00346041) Conservation of cultural heritage - Conservation process - Decision making, planning and implementation	Under Approval
CEN/TC 346	<a href="#">prEN 16873</a> (WI=00346038) Conservation of cultural heritage - Guidelines for management of waterlogged wood on terrestrial sites of archaeological significance	Under Enquiry
CEN/TC 346	<a href="#">prEN 16883</a> (WI=00346033) Conservation of cultural heritage - Guidelines for improving the energy performance of historic buildings	Under Enquiry
CEN/TC 346	<a href="#">prEN 16893</a> (WI=00346029) Conservation of Cultural Heritage - New sites and buildings intended for the storage and use of collections	1414

# The CEN/TC 346 2015-2018 finalise the publication of the following standards:

WI	Reference	Subject
00346018	FprEN 16648	Conservation of cultural heritage - Transport methods
00346024	FprEN 16752	Conservation of Cultural Heritage - Glossary of technical terms concerning mortars for masonry, renders and plasters used in cultural heritage
00346028	prEN 16790	Conservation of cultural heritage - Integrated pest management (IPM) for protection of cultural heritage
00346029		Conservation of cultural heritage - New sites and buildings intended for the storage and use of collections
00346033		Conservation of Cultural Heritage - Guidelines for improving energy performance of historically, architecturally or culturally valuable buildings
00346034	prEN 16682	Conservation of Cultural Heritage - Guide to the measurements of moisture content in materials constituting movable and immovable cultural heritage

00346038	prEN 16873	Conservation of cultural property - Guidelines for management of waterlogged wood on terrestrial sites of archaeological significance
00348041	prEN 16853	Conservation of cultural heritage - Conservation process - Decision making, planning and implementation
00346042	prEN 16782	Conservation of cultural heritage - Cleaning of porous inorganic materials - Laser cleaning techniques for cultural heritage



# Postscript. Some legal references

- [Council Directive 83/189/EEC of 28 March 1983 laying down a procedure for the provision of information in the field of technical standards and regulations.](#) *Official Journal of the European Communities*. April 26, 1983. This directive only recognises CEN and CENELEC as European standards institutions. Accessed 2009-04-27.
- Annex 1 of [Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure.](#) *Official Journal of the European Communities*. July 21, 1998. Accessed 2009-04-27.
- European Parliament: [Resolution on the report from the Commission to the Council and the European Parliament 'Efficiency and Accountability in European Standardisation under the New Approach' \(COM\(98\)0291 – C4-0442/98\).](#) *Official Journal of the European Communities* 12 February 1999. Other language versions can be accessed from [European Commission: Directorate General Enterprise and Industry: Standardisation.](#) Accessed 2009-04-27.