



COST action D 42 Chemical interactions between
Cultural Artefacts and Indoor Environment- EnviArt



WG3-Guidelines Updating of the activity

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COST D42-Workshop SHOWCASES INSIDE OUT – Porto 25-26 May,
2009



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Scientific areas 6-Harmonisation and standardisation

The research task is a pre-normative work

There exists a strong synergism between COST D42 & CEN
TC 346/WG4 - Environment



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TG1-Methods

TG2-Storage and health

Focus 3.1

Development new standards

Assessment and evaluation current methods and
standards

Focus 3.2

Healthy storage guidelines

Handling

Exhibition



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Items frequently discussed (Krakow 2007, Padua 2007, Copenhagen 2007, Padua 2008, London 2009):

- new specification for light and lighting for exhibition of art and artworks
- harmonization of indoor environmental conditions
- RH in cultural heritage and interaction of moisture with historic materials
- the role of a historical climate



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prEN 15757

Specifications for temperature and relative humidity to limit
microclimate-induced mechanical damage in organic
hygroscopic materials

this standard is useful for the evaluation of indoor
environments of museums, galleries, archives, libraries,
churches and modern or historical buildings



prEN 15758

Procedures and instruments for measuring temperatures of the air
and the surfaces of the object

this standard:

- is for indoor and outdoor environments
- specifies the minimum characteristics of instruments for such measurements,
- provides indications for accurate measurements which ensure at the same time the highest safety of heritage objects



prEN 15759

Specifications and control of Indoor Environment-heating places for worship

the objective is to provide recommendations for the heating of historic churches/places for worship in order to prevent damage to the buildings and their contents.

- i) for conservation heating where the only concern is preservation of the historic building and its contents,
- ii) for heating for thermal comfort where the concern is on an optimal balance between an acceptable comfort for those using the church and limiting risk to the historic building and its content.
- iii) for both heating strategies, impact on the building structure and reversibility will be considered.



Focus 3.1 Development of new standards

The following drafts are actually under consideration

-Light and lighting for exhibition of cultural heritage objects

-Sensor for humidity measurements in the field of cultural heritage preservation

-diffusive sampling for air pollution monitoring of inorganic compounds in indoor/outdoor air

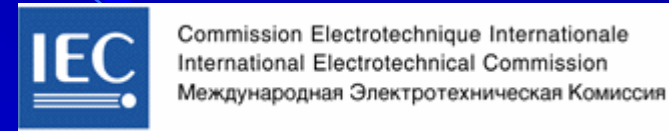


The CEN-System: a Short introduction

Standardization Organizations



➤ International



➤ European



➤ National





What is CEN ?

- European Committee for Standardization, setting standards for Europe.
- Recognized in Directive 98/34/EC as “the” competent European body



What CEN “Produce” ?

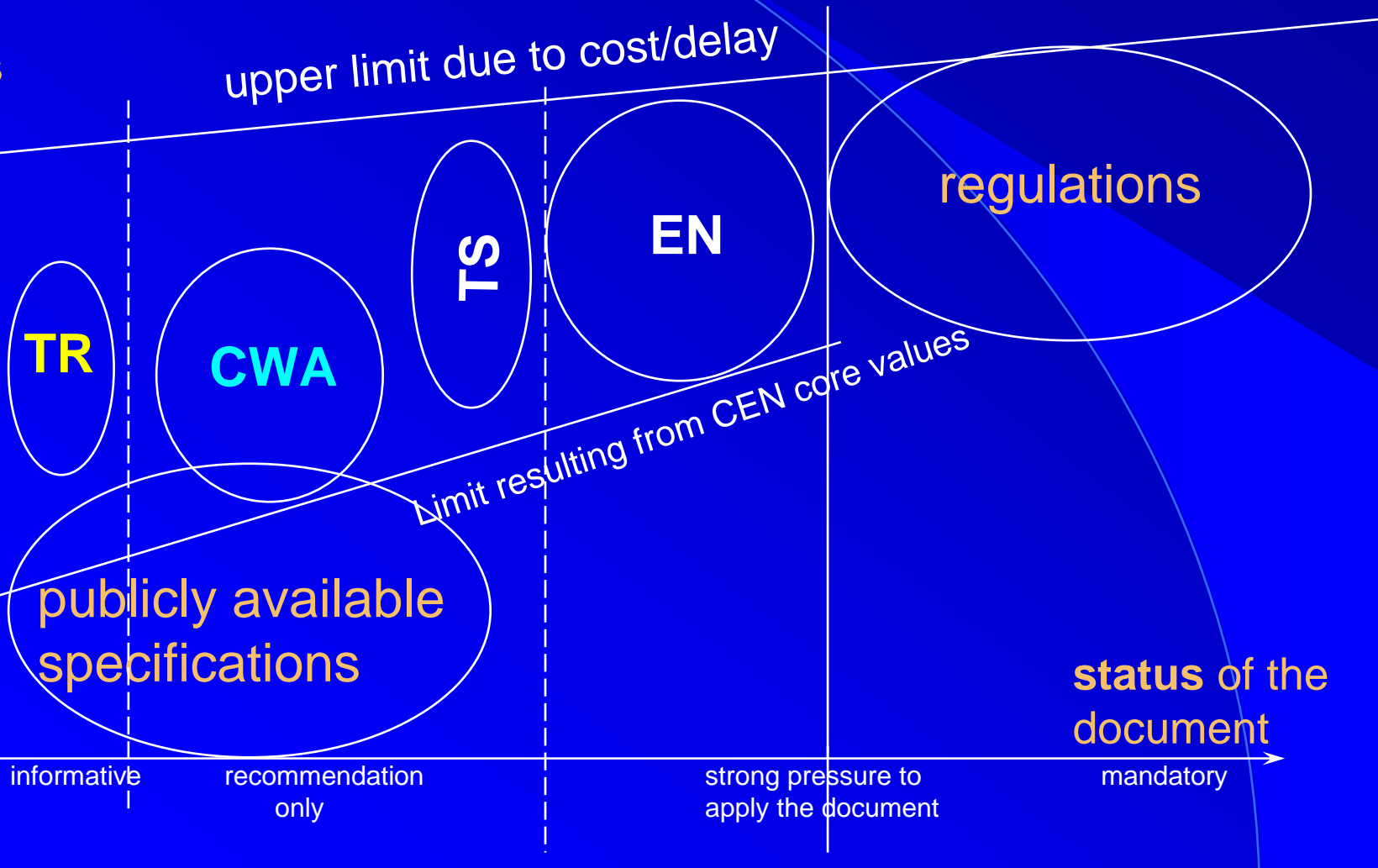
- European Standard (EN)
- Technical Specification (CEN/TS)
- Technical Report (CEN/TR)



CEN products - status

openness
of the
process

not publicly
available



status of the
document



What is a standard ?

A document

- established by consensus
- approved by a recognized body
 - that provides for common and repeated use
 - *based on the consolidated results of science, technology and experience*
 - *aimed at the promotion of optimum community benefits*



Why Standards ?

➤ Support legislation

- “New Approach” Directives
- Other “classical” Directives or regulations



➤ Product Liability

- Conformity to standards = conformity to “state of the art” of technology
- Provides legal certainties

➤ “State of the Art” of technology

➤ Automatic review, at latest every 5 years

Status of Standards ?

- Standards are, when not called up in legislation, voluntary
- Directives are obligatory
- Standards support legislation, can give *presumption of conformity* with Directives, which are transposed into national legislation

Ideal drafting process of EN



Working Group experts
Draft document
12 - max.21 months

CEN-Enquiry , including translation and processing
8-9 months

WG experts discuss
comments on CEN-Enquiry
8 - max.17 months

Voting Process
6-7 months

Track:
CEN-Enquiry + Formal Vote

Publication EN
2 months

CEN/TC 346

Conservation of Cultural Property

WG1

WG2

WG3

WG4

WG5

WG1 General guidelines and terminology

WG2 Materials constituting cultural property

WG3 Evaluation of methods and products for conservation works

WG4 Environment

WG5 Transportation and packing methods

WG4 Environment



pr EN 15757- Specifications for temperature and relative humidity to limit climate-induced mechanical damage in organic hygroscopic materials

Pr EN 15758 - Procedures and instruments for measuring temperatures of the air and the surfaces of the object

Pr EN 15759- Specifications and control of indoor environment-heating for worship places

- **003460014 - Guidelines of management of environmental conditions – Storage facilities: definitions and functional characteristics of areas dedicated to preservation and management of cultural heritage**
- **003460015 - Guidelines of management of environmental conditions– Recommendations for a showcase used for the exhibition and preservation of cultural heritage**



Standards for showcase?