Conservation of cultural heritage - Guidelines for design of showcases for exhibition and preservation of objects eme

Solution

S Part 1: General requirements



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 15999-1:2014 sisaldab Euroopa standardi EN 15999-1:2014 inglisekeelset teksti.	This Estonian standard EVS-EN 15999-1:2014 consists of the English text of the European standard EN 15999-1:2014.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 05.03.2014.	Date of Availability of the European standard is 05.03.2014.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 97.195

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega: Aru 10, 10317 Tallinn, Eesti; www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation: Aru 10, 10317 Tallinn, Estonia; www.evs.ee; phone 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 15999-1

March 2014

ICS 97.195

English Version

Conservation of cultural heritage - Guidelines for design of showcases for exhibition and preservation of objects - Part 1: General requirements

Conservation des biens culturels - Guide pour la gestion des conditions environnementales - Recommandations pour les vitrines destinées à exposer et préserver des biens culturels - Partie 1: Exigences générales Erhaltung des kulturellen Erbes - Leitfaden für die Konstruktion von Schauvitrinen zur Ausstellung und Erhaltung von Objekten - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CEN on 4 January 2014.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

onter	nts	Page
reword	12.	3
	ion	
	cope	
N	ormative references	5
T	erms and definitions	5
Р	rinciples and components of a showcase	6
F	unctions of the showcase	6
	riteria for design or selection of a showcase	
	omponents of the showcase	
	eneral	
	isplay space	
	echnical compartmentsase and mounting of the showcase	
	ining of the display space and supports for the object	
	ecurity and safety	
	onstruction materials, assembly and fixing	
	haracteristics of constituent materials	
2 A	ssembly and fixing	9
	lanagement of the environmental conditions	
	licroclimate	
	ightingollutants, dust and microorganisms	
		2/5

Foreword

This document (EN 15999-1:2014) has been prepared by Technical Committee CEN/TC 346 "Conservation of Cultural Heritage", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

EN 15999, Conservation of cultural heritage - Guidelines for design of showcases for exhibition and preservation of objects, consists of the following parts:

- Part 1: General requirements;
- Part 2: Technical requirements.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech al.
gosla
Luxemt
witzerland, Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

The main purpose of a showcase is to reduce the risk of physical damage (e.g. theft, vandalism, natural disasters) and to improve the control of environmental parameters (relative humidity, air temperature, dust, pollutants and light) to cultural heritage objects.

Better knowledge of the material properties of cultural heritage objects and their interaction with the environment is leading to better preservation. In light of this new knowledge, and in order to prevent risk of decay related to the exhibitions, the showcase is a useful tool to preserve and protect objects.

With increasing development of cultural tourism, the number of exhibitions and visitors are likely to continue to grow and place greater burdens on cultural heritage objects.

The complexity and the number of variables and their possible incidence require the use of a showcase, adapted to the object and the environment where the showcase is situated. A badly constructed or selected showcase can in some circumstances make conditions worse for the object.

The design of showcases need to take account of the shared views of all relevant members of an exhibition team, including for example curators, conservators, scientists, architects, graphic designers, lighting experts and other decision makers.

This European Standard will consist of the following parts:

- Conservation of cultural heritage Guidelines for design of showcases for exhibition and preservation of objects — Part 1: General instructions
- 1 of show Conservation of cultural heritage — Guidelines for design of showcases for exhibition and preservation of objects — Part 2: Technical aspects

1 Scope

This European Standard specifies the characteristics and the conditions for use of showcases for safe and secure display of cultural heritage objects, reducing environmental interaction and complying with the requirements for better preservation.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15898:2011, Conservation of cultural property - Main general terms and definitions

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15898:2011 and the following apply.

3.1

accessibility

physical capability of intervention in a showcase for such purposes as handling of an object, technical intervention and maintenance

3.2

air exchange

airflow through gaps and small openings of the display space to the outside of the closed showcase

3.3

buffer

material, which resists change of relative humidity, acidity, or pollutants concentration by absorbing or desorbing vapours, gases or ions

3.4

display space

space in the showcase where the objects are displayed and which may contain other elements such as panels, supports, graphics, monitoring equipment etc

3.5

indoor climate

description of climate inside the building relevant to the preservation of an object or to human comfort

3.6

microclimate

climate in the display space of the showcase

3.7

mounting

system to allow an object to be supported or fixed

3.8

pollutants

gaseous or particulate chemical contaminants induced into the environment, which can generate corrosion, incrustation, colour fading, soiling, deterioration or other forms of damage to the object on display