



Nederlandse norm

NEN-EN 17036

(en)

Conservation of Cultural Heritage - Artificial
ageing by simulated solar radiation of the surface
of untreated or treated porous inorganic
materials

Vervangt NEN-EN 17036:2016 Ontw.

ICS 97.195

juli 2018

Als Nederlandse norm is aanvaard:
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Beleidscommissie 342 'BC Materialtechnologie'



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EUROPEAN STANDARD

EN 17036

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2018

ICS 97.195

English Version

Conservation of Cultural Heritage - Artificial ageing by simulated solar radiation of the surface of untreated or treated porous inorganic materials

Conservation du patrimoine culturel - Vieillissement artificiel par rayonnement solaire simulé de la surface de matériaux inorganiques poreux traités ou non traités

Erhaltung des kulturellen Erbes - Künstliche Alterung von unbehandelten oder behandelten porösen anorganischen Materialoberflächen mit simulierter Sonnenstrahlung

This European Standard was approved by CEN on 15 February 2018.

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European foreword

This document (EN 17036:2018) 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of an identical text or by endorsement, at the latest by December 2018, and conflicting national standards shall be withdrawn at the latest by December 2018.

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Introduction

In contrast to natural weathering, artificial ageing using simulated solar radiation involves a limited number of variables which can be controlled more readily and which are intensified to evaluate in a short way the stability of porous inorganic materials and the durability of conservation treatments.

The ageing processes which occur during artificial and natural weathering cannot be expected to correlate exactly with each other because of the large number of factors influencing these processes. Definite relationships can only be expected if the important parameters (distribution of the irradiance over the photochemical relevant part of the spectrum, temperature of the specimen, type of wetting and wetting cycle, and relative humidity) are the same in each case or if their effect on the coatings is known.

No direct correlation can be made between artificial ageing duration and actual exposure duration. However, performance comparisons under the controlled conditions of artificial weathering can be compared to documented performance of materials and coatings that have experienced extended periods of end use exposure.

This methodology is intended to be used on new materials. In all cases, the risk of potential damage to irreplaceable objects during irradiation should be considered.

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