

Ehitusdetailid. Korrosioonikindlus. Nõuded ja katsemeetodid

Building hardware - Corrosion resistance -
Requirements and test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1670:1999 sisaldab Euroopa standardi EN 1670:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1670:1999 consists of the English text of the European standard EN 1670:1998.</p> <p>This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: See Euroopa standard määrab kindlaks uste, akende, aknaluukide ja rippseina monteeritavate paneelide korrosioonikindluse nõuded. Standard määrab kindlaks nõuded nii kattega kui ka katteta pindade kohta ning nelja korrosioonikindlusastme (klassi) kohta, mis on kehtestatud vastavalt kasutustingimustele (astmed (klassid) 1 kuni 4). Hõlmatud on ka aste (klass) 0, mille kohta nõudeid ei ole veel kindlaks määratud. 4 korrosiooniastmest (klassist) kõrgemate korrosioonitasemete nõudeid ei ole käesolevas standardis hõlmatud ning vajadusel tuleb selles osas kokku leppida. Standard kehtib ka ehitusdetailide kinnitamiseks nõutavate metallist kinnitusdetailide kohta. Selles standardis kindlaksmääratud kaitsvate viimistluskatete nõuded on pärit ISO standarditest. Kui kasutatakse pinnakatteta materjale või ISO standarditega hõlmamata viimistluskatteid, põhineb klassifitseerimine tavaliste soolaudukatsete tulemustel, nagu on kindlaks määratud standardis ISO 9227.</p>	<p>Scope:</p>
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ICS 91.190

Võtmesõnad: aknad, anodeerimine, ehitised, elektrosadestamine, kaitsekatted, katsetingimused, klassifikatsioonid, korrosioonikindlus, metallist kinnitusdetailid, soolaudukatseted, sulgurid, ukсед

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Descriptors: Building hardware, corrosion resistance, requirements, testing.

English version

Building hardware – Corrosion resistance

Requirements and test methods

Quincaillerie pour le bâtiment –
Résistance à la corrosion – Prescrip-
tions et méthodes d’essai

Schlösser und Baubeschläge –
Korrosionsverhalten – Anforderungen
und Prüfverfahren

This European Standard was approved by CEN on 1998-08-02.

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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 33 "Doors, windows, shutters and building hardware", the secretariat of which is held by AFNOR.

This European Standard is part of a series of European Standards dedicated to building hardware products.

A full contribution to the preparation of this standard has been made by the European Manufacturer's Organisation "ARGE".

Informative annexes are cited in the content list.

Corrosion protection alone is not specified in any of the six essential requirements of the Construction Products Directive but is an implicit requirement for durability. This European Standard provides for the corrosion resistance of all building hardware, classified according to application.

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 February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

0 Introduction

CEN recently inaugurated CEN/TC 262 "Corrosion protection of metallic materials", the first meeting being held in January 1991. The scope agreed for CEN/TC 262 includes the establishment of standards for the evaluation of corrosion likelihood by means of performance tests and of the various systems used for corrosion protection. CEN/TC 33 recognises that developments by CEN/TC 262 may make it necessary to revise this European Standard in a few years' time, replacing it by a new one based solely on the performance testing of building hardware. Although the accelerated corrosion tests currently available are only partly successful in this respect, several members of CEN/TC 33 have expressed their support in principle for such an approach.

One member of the CEN/TC 33/WG 4/TG 2, predominantly exposed in his region to a continental climate, prefers the sulphur dioxide test with the general condensation of moisture according to ISO 6988 since the salt spray test in accordance to ISO 9227 does not cover the kind of stressing exerted by industrial environments. The majority of others members prefers the salt spray test in accordance with ISO 9927 as well as the corrodokote test according to ISO 4541. Because of these reasons this standard specification can be applied only restrictively within the member bodies confronted with prevailing industrial atmospheric conditions.

1 Scope

This European Standard specifies the requirements for the corrosion resistance of hardware for doors, windows, shutters and curtain walling.

The standard specifies requirements for both coated and uncoated surfaces, four grades (classes) of corrosion resistance being laid down in accordance with the different conditions of use (grades(classes) 1 to 4). A grade (class) 0 is also included for which no requirements have been specified. Requirements for levels of corrosion higher than those laid down for grade (class) 4 have not been included in this standard and are subject to agreement where required.

This standard also applies to the metal fasteners required for fixing building hardware.

The requirements for protective finishes specified in this standard are derived from ISO standards. Where materials are used uncoated or where other finishes are used that are not covered by ISO standards, classification is based on performance in neutral salt spray tests as specified in ISO 9227.

NOTE: The term "grade" used in this European Standard corresponds to the term "class" used in ISO standards.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 1456	Metallic coatings - Electrodeposited coatings of nickel plus chromium and of copper plus nickel plus chromium
ISO 1458	Metallic coatings - Electrodeposited coatings of nickel
ISO 2081	Metallic coatings - Electroplated coatings of zinc on iron or steel
ISO 4520	Chromate conversion coatings on electroplated zinc and cadmium coatings
ISO 4628-2	Paints and varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common types of defect - Part 2: Designation of degree of blistering
ISO 7599	Anodizing of aluminium and its alloys - General specifications for anodic oxide coatings on aluminium
ISO 9227	Corrosion tests in artificial atmospheres - Salt spray tests