

## საქართველოს სტანდარტი

---

საღებავები და ლაქები - დამცავი საღებავით ფოლადის კონსტრუქციების  
დაცვა კოროზიისაგან - ნაწილი 3: პროექტის განხილვები (ISO 12944-3:2017)

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

საქართველოს სტანდარტებისა და მეტროლოგიის  
ეროვნული სააგენტო  
თბილისი

# სსტ ენ 12944-3:2017/2018

## საინფორმაციო მონაცემები

1 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს 2018 წლის 14 მაისის № 55 და 2018 წლის 7 მარტის № 14 განკარგულებებით

2 მიღებულია თავფურცლის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ ისო 12944-3:2017 „საღებავები და ლაქები - დამცავი საღებავით ფოლადის კონსტრუქციების დაცვა კოროზიისაგან - ნაწილი 3: პროექტის განხილვები (ISO 12944-3:2017)“

### 3 პირველად

4 რეგისტრირებულია საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2018 წლის 14 მაისი №268-1.3-013631

აკრძალულია ამ სტანდარტის გადაცემა მესამე პირებისათვის ან/და მისი სხვა ფორმით გავრცელება

EUROPEAN STANDARD

EN ISO 12944-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2017

ICS 87.020; 91.080.13

Supersedes EN ISO 12944-3:1998

English Version

Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 3: Design considerations (ISO 12944-3:2017)

Peintures et vernis - Anticorrosion des structures en acier par systèmes de peinture - Partie 3: Conception et dispositions constructives (ISO 12944-3:2017)

Beschichtungsstoffe - Korrosionsschutz von Stahlbauten durch Beschichtungssysteme - Teil 3: Grundregeln zur Gestaltung (ISO 12944-3:2017)

This European Standard was approved by CEN on 30 October 2017.

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, Serbia, 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: Rue de la Science 23, B-1040 Brussels

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

**Contents**

Page

**European foreword..... 3**

საინფორმაციო ნაწილი. სრული ტექსტის სახსრად შეიძინეთ სტანდარტი.

## European foreword

This document (EN ISO 12944-3:2017) has been prepared by Technical Committee ISO/TC 35 “Paints and varnishes” in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” the secretariat of which is held by DIN.

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 June 2018, and conflicting national standards shall be withdrawn at the latest by June 2018.

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

This document supersedes EN ISO 12944-3:1998.

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 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Endorsement notice

The text of ISO 12944-3:2017 has been approved by CEN as EN ISO 12944-3:2017 without any modification.

---

---

**Paints and varnishes — Corrosion  
protection of steel structures by  
protective paint systems —**

**Part 3:  
Design considerations**

*Peintures et vernis — Anticorrosion des structures en acier par  
systèmes de peinture —*

*Partie 3: Conception et dispositions constructives*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

Page

Foreword .....	iv
Introduction .....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>2</b>
<b>4 General .....</b>	<b>2</b>
<b>5 Basic design criteria for corrosion protection purposes .....</b>	<b>2</b>
5.1 General .....	2
5.2 Accessibility .....	3
5.3 Treatment of gaps .....	3
5.4 Precautions to prevent retention of deposits and water .....	3
5.5 Surface imperfections .....	4
5.6 Bolted connections .....	4
5.6.1 Slip-resistant connections with high-tensile bolts .....	4
5.6.2 Preloaded connections .....	4
5.6.3 Bolts, nuts and washers .....	4
5.7 Box members and hollow components .....	4
5.8 Notches .....	4
5.9 Stiffeners .....	5
5.10 Prevention of galvanic corrosion .....	5
5.11 Handling, transport and erection .....	5
<b>Annex A (informative) Accessibility — Typical distances required for tools in corrosion protection work .....</b>	<b>6</b>
<b>Annex B (informative) Recommended minimum dimensions of openings for access to confined areas .....</b>	<b>7</b>
<b>Annex C (informative) Minimum dimensions for narrow spaces between surfaces .....</b>	<b>8</b>
<b>Annex D (informative) Design features which can be used to avoid deposits accumulating or water being trapped .....</b>	<b>10</b>
<b>Bibliography .....</b>	<b>14</b>



## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 14, *Protective paint systems for steel structures*.

This second edition cancels and replaces the first edition (ISO 12944-3:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the terms and definitions which were not used in the main part of the standard have been deleted;
- the normative references have been updated;
- [5.1](#) "General" has been added;
- the requirement for gap sealing material has been added in [5.3](#);
- the requirements for surface preparation in case of high and very high durabilities for C4 and higher, as well as Im1 to Im4, have been added;
- the title of [Table A.1](#) has been corrected;
- a key has been added to [Figure B.1](#);
- [Figure D.1](#) c) has been deleted;
- the requirements for the radius in [Figures D.5](#) and [D.7](#) have been added;
- a bibliography has been added;
- the text has been editorially revised.

A list of all parts in the ISO 12944 series can be found on the ISO website.