

TERAS BETOONI SARRUSTAMISEKS. TSINGITUD
SARRUSETERASTOOTED

Steel for the reinforcement of concrete - Galvanized
reinforcing steel products

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 10348:2024 sisaldab Euroopa standardi EN 10348:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.03.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 10348:2024 consists of the English text of the European standard EN 10348:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 27.03.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 77.140.15

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EUROPEAN STANDARD

EN 10348

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2024

ICS 77.140.15

Supersedes EN 10348-2:2018

English Version

Steel for the reinforcement of concrete - Galvanized reinforcing steel products

Aciers pour béton armé - Produits en acier galvanisés
pour l'armature du béton

Stahl für die Bewehrung von Beton - Verzinkte
Betonstahlerzeugnisse

This European Standard was approved by CEN on 29 January 2024.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye 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

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European foreword

This document (EN 10348:2024) has been prepared by Technical Committee CEN/TC 459 “ECISS - European Committee for Iron and Steel Standardization¹”, the secretariat of which is held by AFNOR.

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 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

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 10348-2:2018.

EN 10348:2024 has been mainly modified to provide for the inclusion in the scope of the standard products covered by prEN 10080:2023 (e.g. bars, welded fabrics and lattice girders) not subjected to further processing as a merging of EN 10348-2:2018 and prEN 10348-1 (part 1 not developed).

In particular, EN 10348:2024 includes the following significant technical changes with respect to EN 10348-2:2018:

- update of the title and the scope;
- update of definition 3.1 “hot-dip galvanizing”;
- update of definition and numbering:
 - 3.2 “reinforcing steel products”,
 - 3.3 “galvanized reinforcing steel products”;
- update of Table 1 “List of symbols”;
- update of Table 3 “Specified minimum values of the mass of zinc per unit area and related coating thickness”;
- update of 10.1.1 “Test unit”.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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

¹ Through its sub-committee SC 4 “Concrete reinforcing and prestressing steels”, (secretariat: DIN).

1 Scope

This document specifies requirements for hot dip galvanized reinforcing steel in the form of products which meet the requirements of EN 10080 and subjected, where appropriate, to further processing, e.g. bars, bent bars, stirrups, products straightened from coils, products cut from bars, welded structures and any other components fabricated for use in the reinforcement of concrete.

This document does not apply to hot dip galvanized reinforcement for prestressing or components of these reinforcements.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10080, *Steel for the reinforcement of concrete — Weldable reinforcing steel — General*

EN ISO 1460, *Metallic coatings — Hot dip galvanized coatings on ferrous materials — Gravimetric determination of the mass per unit area (ISO 1460)*

EN ISO 1461:2022, *Hot dip galvanized coatings on fabricated iron and steel articles — Specifications and test methods (ISO 1461:2022)*

EN ISO 14713-2:2020, *Zinc coatings — Guidelines and recommendations for the protection against corrosion of iron and steel in structures — Part 2: Hot dip galvanizing (ISO 14713-2:2019)*

EN ISO 2178, *Non-magnetic coatings on magnetic substrates — Measurement of coating thickness — Magnetic method (ISO 2178)*

EN ISO 15630-1, *Steel for the reinforcement and prestressing of concrete — Test methods — Part 1: Reinforcing bars, rods and wire (ISO 15630-1)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org>

3.1

hot dip galvanizing

formation of a coating of zinc and/or zinc iron alloys on steel products by dipping prepared steel in a zinc melt

3.2

reinforcing steel products

reinforcing steel in the form of products which meet the requirements of EN 10080 and subjected, where necessary, to further processing, e.g. bars, bent bars, stirrups, products straightened from coils, products cut from bars, welded structures and any other components fabricated for use in the reinforcement of concrete