# Continuously hot-dip coated steel sheet and strip - Tolerances on dimensions and shape

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### **EESTI STANDARDI EESSÕNA**

### **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 10143:2006 sisaldab Euroopa standardi EN 10143:2006 ingliskeelset teksti.

Käesolev dokument on jõustatud 30.08.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 10143:2006 consists of the English text of the European standard EN 10143:2006.

This document is endorsed on 30.08.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

### Käsitlusala:

This European Standard applies to continuously zinc (Z), zinc-iron alloy (ZF), zinc-aluminium alloy (ZA), aluminiumzinc alloy (AZ) and aluminium-silicon alloy (AS) hot-dip coated flat products made of low carbon and high strength steels for cold forming and of structural steels with a minimum thickness of 0,20 mm and a maximum thickness of 6,50 mm, delivered as sheet, wide strip, slit wide strip or cut lengths obtained from slit wide strip or sheet. The concerned standards are EN 10292, EN 10326, EN 10327 and hot-dip coated products according to prEN 10336.

### Scope:

This European Standard applies to continuously zinc (Z), zinc-iron alloy (ZF), zinc-aluminium alloy (ZA), aluminiumzinc alloy (AZ) and aluminium-silicon alloy (AS) hot-dip coated flat products made of low carbon and high strength steels for cold forming and of structural steels with a minimum thickness of 0,20 mm and a maximum thickness of 6,50 mm, delivered as sheet, wide strip, slit wide strip or cut lengths obtained from slit wide strip or sheet. The concerned standards are EN 10292, EN 10326, EN 10327 and hot-dip coated products according to prEN 10336.

ICS 77.140.50

**Võtmesõnad:** kuumsukelduskatmine, metallpinnakatted, metallplaadid, mõõtmed, mõõtmetolerantsid, pidevmeetodil katmine, profiili lubatud hälbed, raud- ja terastooted, terased, terasribad, tähistamine

### EUROPEAN STANDARD NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

**EN 10143** 

June 2006

ICS 77.140.50

Supersedes EN 10143:1993

### **English Version**

## Continuously hot-dip coated steel sheet and strip - Tolerances on dimensions and shape

Tôles et bandes en acier revêtues en continu par immersion à chaud - Tolérances sur les dimensions et sur la forme

Kontinuierlich schmelztauchveredeltes Blech und Band aus Stahl - Grenzabmaße und Formtoleranzen

This European Standard was approved by CEN on 24 May 2006.

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.

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 Central Secretariat has the same status as the official versions.

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



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

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	Terms and definitions  Designation  Condition of delivery  Tolerances on thickness  Tolerances on width  General  Sheet and wide strip of width $\geq 600 \text{ mm}$ Slit wide strip of width less than 600 mm  Tolerances on length  Tolerances on flatness  Steel grades with specified minimum $R_e$ or $R_{p0,2} \leq 360 \text{ MPa}$

### **Foreword**

This document (EN 10143:2006) has been prepared by Technical Committee ECISS/TC 27 "Surface coated flat products - Qualities, dimensions, tolerances and specific tests", 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 December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

This document supersedes EN 10143:1993.

In comparison with EN 10143:1993 the following alterations were considered:

- a) Leaded flat products in accordance with EURONORM 153 are no longer referred to.
- b) Applicable product thickness exceeded to maximal 6,50 mm (with additional specification of 0,20mm minimum thickness)
- c) Applicable width ranges exceeded from three to four.
- d) Thickness tolerances specified for four (instead of two) yield strength ranges.
- e) Reduced thickness tolerances for products with  $(R_e \text{ or } R_{\text{p0.2}}) < 360 \text{ MPa.}$
- f) Altered thickness tolerances for products with  $R_{p0,2} \ge 360$  MPa.
- g) Flatness tolerances decreased.

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

### 1 Scope

This European Standard applies to continuously zinc (Z), zinc-iron alloy (ZF), zinc-aluminium alloy (ZA), aluminium-zinc alloy (AZ) and aluminium-silicon alloy (AS) hot-dip coated flat products made of low carbon and high strength steels for cold forming and of structural steels with a minimum thickness of 0,20 mm and a maximum thickness of 6,50 mm, delivered as sheet, wide strip, slit wide strip or cut lengths obtained from slit wide strip or sheet. The concerned standards are EN 10292, EN 10326, EN 10327 and hot-dip coated products according to prEN 10336.

It does not apply for

- hot-rolled sheet and strip without coating (see EN 10051) and
- uncoated or electrolytically coated cold rolled sheet and strip (see EN 10131).

### 2 Normative references

The following referenced documents are indispensable for the application 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 10079:1992, Definition of steel products

### 3 Terms and definitions

For the purposes of this document, the terms and definitions for hot-dip coated flat products in accordance with EN 10079:1992 and the following apply.

### 3.1

### nominal (specified) thickness

whole order thickness of the metallically coated product

NOTE Nominal thickness includes both substrate and coating.

### 4 Designation

- **4.1** Products conforming to this European Standard shall be designated in the following order (see also Clause 5):
- a) type of product (sheet, wide strip, slit wide strip or cut length);
- b) the reference to this European Standard, i.e. EN 10143;
- c) nominal thickness in mm;
- d) the letter S for products ordered with special tolerances on thickness;
- e) nominal width in mm;
- f) the letter S for products ordered with special tolerances on width;
- g) nominal length in mm (sheets and cut lengths only);
- h) the letter S for products ordered with special tolerances on length (sheets and cut lengths only);