



SLOVENSKI STANDARD
SIST EN 10143:1997

01-maj-1997

Kontinuirno vroče prevlečene pločevine in trakovi - Mejni odstopki mer in tolerance oblik

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

Kontinuierlich schmelztauchveredeltes Blech und Band aus Stahl - Grenzabmaße und Formtoleranzen

Tôles et bandes en acier revetues d'un métal en continu par immersion a chaud - Tolérances sur les dimensions et la forme

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Ta slovenski standard je istoveten z: EN 10143:1993

ICS:

77.140.50	Ploščati jekleni izdelki in polizdelki	Flat steel products and semi-products
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EUROPEAN STANDARD

EN 10143:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1993

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Descriptors: Iron and steel products, metal plates, steel strips, steels, metal coatings, continuous coating, hot dip coating, designation, dimensions, dimensional tolerances, form tolerances

English version

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

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

Kontinuierlich schmelztauchveredeltes Blech und Band aus Stahl - Grenzabmaße und Formtoleranzen

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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.

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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 drawn up by ECISS/TC 27 "Surface coated flat products", the secretariat of which is held by "Normenausschuß Eisen und Stahl" (FES) im DIN.

The European Standard EN 10143 supersedes the EURONORMS published by the ECSC :

- 143 (1979) "Continuous hot-dip zinc-coated unalloyed mild steel sheet and coil for cold forming - Tolerances on dimensions and shape" and
- 148 (1979) "Continuous hot-dip zinc-coated unalloyed steel sheet and coil with specific minimum yield strengths for structural purposes - Tolerances on dimensions and shape"

At a meeting of ECISS/TC 27 held on 11 March 1992 in Düsseldorf the text was agreed for publication as a European Standard. The following countries were represented at this meeting : Austria, Belgium, Finland, France, Germany, Luxembourg, Netherlands, Sweden and the United Kingdom.

This standard was approved by CEN on 1992-06-05.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard :

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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 July 1993, and conflicting national standards shall be withdrawn at the latest by July 1993.

1 Scope

1.1 This European Standard specifies the requirements for the tolerances on the dimensions and shape of continuously hot-dip metal coated flat products (strip of all widths and sheet or lengths cut from it) with a thickness $\leq 3,0$ mm of low carbon steels for cold forming and of structural steels. The thickness is the final thickness of the delivered product including the metal coating.

1.2 This European Standard applies to all hot-dip flat products with metal coatings for example of

- zinc or zinc-iron alloy (see EN 10 142 and EN 10 147);
- aluminium-zinc alloy (see EN 10 215, in preparation);
- zinc-aluminium alloy (see EN 10 214, in preparation);
- aluminium-silicon alloy (see EURONORM 154);
- lead-alloy (see EURONORM 153);

as long as the technical delivery conditions in each case do not contain any different or additional specifications and no other agreements are reached at the time of ordering.

1.3 This European Standard does not apply to

- cold rolled or hot rolled uncoated steel flat products (see EN 10131 and EN 10051);
- electrolytic coated steel flat products (see EN 10 152, for example).

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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 publications referred to applies.

EN 10020	Definition and classification of grades of steel
EN 10079	Definition of steel products
EN 10142	Continuously hot-dip zinc coated low carbon steel sheet and strip for cold forming; technical delivery conditions
EN 10147	Continuously hot-dip zinc-coated structural steel sheet and strip; technical delivery conditions

EN 10214 ¹⁾	Continuously hot-dip zinc-aluminium (ZA) coated steel sheet and strip; technical delivery conditions
EN 10215 ¹⁾	Continuously hot-dip aluminium-zinc (AZ) coated steel sheet and strip; technical delivery conditions
EURONORM 153:1980 ²⁾	Hot-dip terne (lead-alloy) coated cold-reduced carbon steel flat rolled products of commercial and drawing qualities - Technical delivery conditions
EURONORM 154:1980 ²⁾	Hot-dip aluminium-silicon coated carbon steel flat rolled products of commercial and drawing qualities - Technical delivery conditions

3 Definitions

In addition to the definitions in EN 10 020 and EN 10 079, the following definitions apply for the purposes of this European Standard:

3.1 hot-dip metal coating: Application of a metal coating by dipping suitably prepared products in a bath of molten metal e.g. aluminium, lead, zinc or their alloys. In this case wide steel strip is continuously hot-dip coated and where necessary further processed by longitudinal division into narrower strip (slit strip) or by being cut into lengths to form sheet or cut lengths.

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3.2 coating mass: Total mass of coating on both sides of product (expressed in grams per square metre).

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4 Designation

4.1 The products covered by this European Standard shall be designated as follows in the order given:

- a) type of product (strip, sheet or cut length);
- b) number of this European Standard (EN 10 143);
- c) nominal thickness in mm;
- d) letter S for products ordered with special thickness tolerances;
- e) nominal width in mm;
- f) letter S for products ordered with special width tolerances;

1) In preparation.

2) Until they are transformed into European Standards, either the EURONORMS referred to or the corresponding national standards may be applied.

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- g) nominal length in mm (for sheet and cut lengths only);
- h) letter S for sheet and cut lengths ordered with special length tolerances;
- i) letters FS for sheet and cut lengths ordered with special flatness tolerances.

4.2 The designation of the products in accordance with 4.1 shall be supplemented by the complete designation of the ordered steel grade (e.g. in accordance with EN 10142, EN 10147, EN 10214 etc, see 1.2).

4.3 Examples of designation

- a) Strip according to this European Standard with a nominal thickness of 1,20 mm, nominal width of 1 500 mm of steel with the designation Fe E 250G Z275 NA-C according to EN 10 147:

Strip EN 10143 - 1,20 x 1500
Steel EN 10147 - Fe E 250G Z275 NA-C

NOTE: In the example mentioned above the designation of the steel grade complies with the indications given in EN 10147, edition November 1991. In the revised edition of EN 10147 the designation based on EN 10027-1 for the mentioned steel grade will read: S250GD+Z275-NA-C.

- b) Sheet according to this European Standard with a nominal thickness of 0,80 mm, ordered with special thickness tolerances (S), nominal width 1200 mm, ordered with special width tolerances (S), nominal length 2500 mm, ordered with special flatness tolerances (FS) of steel with the designation/according to EN 10214: **DX53D+ZA130-B-C**

Sheet EN 10143 - 0,80 S x 1200 S x 2500 - FS
Steel EN 10214 - DX53D + ZA130-B-C

5 Condition of delivery

5.1 Flat products according to this European Standard shall be supplied with

- a) normal or special tolerances on thickness (see tables 1 and 2);
- b) normal or special tolerances on width (see tables 3 and 4);
- c) normal or special tolerances on length for sheet and cut lengths (see table 5);
- d) normal or special flatness tolerances for sheet and cut lengths (see tables 6 and 7).

5.2 In the absence of information in the order for the type of supply according to 5.1 the flat products shall be supplied with normal tolerances on thickness, width, length and flatness.

6 Tolerances on dimensions and shape

6.1 Thickness

6.1.1 The tolerances on thickness are given in

- table 1 for hot-dip metal coated flat products of all low carbon steels for cold forming (e.g. as specified in EN 10 142) and of structural steels with minimum yield strength values $< 280 \text{ N/mm}^2$ and for the grades Fe E 550G (or S 550GD) with a minimum yield strength of 550 N/mm^2 in the unannealed condition;

- table 2 for hot-dip metal coated flat products of structural steels with minimum yield strength values $\geq 280 \text{ N/mm}^2$.

6.1.2 Thickness tolerances more severe than the special tolerances given in tables 1 and 2 may be agreed at the time of the order.

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