



**SLOVENSKI STANDARD**  
**SIST EN 10259:1998**  
**01-avgust-1998**

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Cold-rolled stainless steel wide strip and plate/sheet - Tolerances on dimensions and shape

Kaltbreitband und Blech aus nichtrostendem Stahl - Grenzabmaße und Formtoleranzen

**STANDARD PREVIEW**

Larges bandes et tôles en acier inoxydable laminées a froid - Tolérances sur les dimensions et la forme

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**Ta slovenski standard je istoveten z: EN 10259:1997**

**ICS:**

77.140.50	Ú[[ z æz\ ^} æ å^  æ ][  ã å^ ã	Flat steel products and semi-products
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EUROPEAN STANDARD

EN 10259

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EUROPÄISCHE NORM

May 1997

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English version

## Cold-rolled stainless steel wide strip and plate/sheet - Tolerances on dimensions and shape

Larges bandes et tôles en acier inoxydable - Tolérances sur les dimensions et la forme  
Kaltbreitband und Blech aus nichtrostendem Stahl - Grenzabmaße und Formtoleranzen

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This European Standard was approved by CEN on 1997-01-26. 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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

# 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 ECISS/TC 23 " Steels for heat treatment, alloy steels and free-cutting steels - Qualities", 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 November 1997, and conflicting national standards shall be withdrawn at the latest by November 1997.

It is the first edition of a European Standard for tolerances on dimensions and shape for cold rolled stainless and heat resisting steel wide strip and plate/sheet.

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.

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## 1 Scope

This European Standard applies to cold-rolled stainless, heat resisting and creep resisting steel flat products in thicknesses up to 6,5 mm and rolled widths of 600 mm up to 2100 mm, delivered as:

- a) wide strip (coils with a rolled width  $\geq 600$  mm),
- b) sheet or plate cut from wide strip,
- c) slit cold-rolled wide strip,
- d) cut lengths obtained from slit cold-rolled wide strip or sheet.

It does not apply to cold-rolled stainless, heat resisting and creep resisting steel narrow strip and cut lengths (rolled width  $< 600$  mm, see EN 10258), or to cold-rolled products for which there is a specific standard.

For cold-rolled sheets, manufactured sheet by sheet, the tolerances on thickness, width and length shall be agreed at the time of enquiry and order.

## 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 10079 Definition of steel products

## 3 Definitions

For the purposes of this European Standard, the definitions given in EN 10079 shall apply.

## 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 (wide strip, sheet/plate or cut length);
- b) the number of this European Standard (EN 10259);
- c) nominal thickness in millimetres;
- d) the letter S for products ordered with special tolerances on thickness;
- e) nominal width in millimetres;
- f) the letter S for products ordered with special tolerances on width;
- g) nominal length in millimetres (sheets/plates and cut lengths only);

- h) the letter S for products ordered with special tolerances on length;
- i) the letters FS for strip, sheets/plates or cut lengths ordered with special tolerances on flatness.

**4.2** The product designation in accordance with 4.1 shall be followed by the complete designation of the steel ordered (according to EN 10088-2 for example).

Examples of designation are as follows:

**EXAMPLE 1:**

Wide strip according to this European Standard of nominal thickness 1,2 mm, nominal width of 1500 mm in steel X5CrNi18-10 (1.4301), process route 2B, as specified in EN 10088-2:

Wide strip EN 10259-1,20x1500  
Steel EN 10088-2-X5CrNi18-10+2B

or

Wide strip EN 10259-1,20x1500  
Steel EN 10088-2-1.4301+2B

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**EXAMPLE 2:**

Sheet according to this European Standard of nominal thickness 0,80 mm ordered with special thickness tolerance (S), nominal width of 1200 mm with special tolerances on width (S), nominal length of 2500 mm with special length tolerance (S) and with special tolerances on flatness (FS) in steel X5CrNi18-10 (1.4301), process route 2B, as specified in EN 10088-2:

Sheet EN 10259-0,80Sx1200Sx2500S-FS  
Steel EN 10088-2-X5CrNi18-10+2B E

or

Sheet EN 10259-0,80Sx1200Sx2500S-FS  
Steel EN 10088-2-1.4301+2B

## **5 Condition of delivery**

**5.1** Flat products according to this European Standard may be delivered as follows:

- a) with normal or special thickness tolerances (see table 1);
- b) with normal or special width tolerances (see table 2);
- c) with normal or special length tolerances for sheets/plates or cut lengths (see table 3);
- d) with normal or special flatness tolerances for strip, sheets/plates or cut lengths (see clause 10).

5.2 In the absence of information on the order in respect of the condition of delivery given in 5.1 the flat products shall be delivered with normal tolerances on thickness, width, length and flatness.

5.3 The products are delivered, unless otherwise agreed, with slit edges; they may have burrs. If, as a special agreement, mill edge coils are delivered, width tolerance should be agreed between manufacturer and customer.

## 6 Preferred thicknesses and tolerances on thickness

### 6.1 Preferred thicknesses

The preferred thicknesses are:

0,30 mm; 0,40 mm; 0,50 mm; 0,60 mm; 0,70 mm; 0,80 mm;  
1,00 mm; 1,20 mm; 1,50 mm; 2,00 mm; 2,50 mm; 3,00 mm;  
4,00 mm; 5,00 mm, 6,00 mm.

### 6.2 Tolerances

The tolerances on thickness are given in table 1.

Table 1: Tolerances on nominal thickness

Nominal thickness		Normal tolerances for a nominal width $w$ of			Special tolerances ( $S$ ) for a nominal width $w$ of		
equal to and over	less than	$w \leq 1000$	$1000 < w \leq 1300$	$1300 < w \leq 2100$	$w \leq 1000$	$1000 < w \leq 1300$	$1300 < w \leq 2100$
-	0,30	$\pm 0,03$	-	-	$\pm 0,020$	-	-
0,30	0,50	$\pm 0,04$	$\pm 0,04$	-	$\pm 0,025$	$\pm 0,030$	-
0,50	0,60	$\pm 0,045$	$\pm 0,05$	-	$\pm 0,030$	$\pm 0,035$	-
0,60	0,80	$\pm 0,05$	$\pm 0,05$	-	$\pm 0,035$	$\pm 0,040$	-
0,80	1,00	$\pm 0,055$	$\pm 0,06$	$\pm 0,06$	$\pm 0,040$	$\pm 0,045$	$\pm 0,050$
1,00	1,20	$\pm 0,06$	$\pm 0,07$	$\pm 0,07$	$\pm 0,045$	$\pm 0,045$	$\pm 0,050$
1,20	1,50	$\pm 0,07$	$\pm 0,08$	$\pm 0,08$	$\pm 0,050$	$\pm 0,055$	$\pm 0,06$
1,50	2,00	$\pm 0,08$	$\pm 0,09$	$\pm 0,10$	$\pm 0,055$	$\pm 0,06$	$\pm 0,07$
2,00	2,50	$\pm 0,09$	$\pm 0,10$	$\pm 0,11$	-	-	-
2,50	3,00	$\pm 0,11$	$\pm 0,12$	$\pm 0,12$	-	-	-
3,00	4,00	$\pm 0,13$	$\pm 0,14$	$\pm 0,14$	-	-	-
4,00	5,00	$\pm 0,14$	$\pm 0,15$	$\pm 0,15$	-	-	-
5,00	6,50 <sup>1)</sup>	$\pm 0,15$	$\pm 0,15$	$\pm 0,16$	-	-	-

<sup>1)</sup> Including 6,50 mm.



## 7 Tolerances on width

The tolerances on width are given in table 2.

**Table 2: Tolerances on nominal width**

Dimensions in millimetres

Nominal thickness		Normal tolerances <sup>1)</sup> for a nominal width $w$ of					Special tolerances ( $S$ ) <sup>1)</sup> for a nominal width $w$ of		
equal to and over	less than	$w \leq 125^{2)}$	$125 < w \leq 250^{2)}$	$250 < w \leq 600^{2)}$	$600 < w \leq 1000^{2)}$	$1000 < w \leq 2100^{2)}$	$w \leq 125$	$125 < w \leq 250$	$250 < w \leq 600$
-	1,00	+ 0,5 - 0	+ 0,5 - 0	+ 0,7 - 0	+ 1,5 - 0	+ 2,0 - 0	+ 0,3 - 0	+ 0,3 - 0	+ 0,6 - 0
1,00	1,50	+ 0,7 - 0	+ 0,7 - 0	+ 1,0 - 0	+ 1,5 - 0	+ 2,0 - 0	+ 0,4 - 0	+ 0,5 - 0	+ 0,7 - 0
1,50	2,50	+ 1,0 - 0	+ 1,0 - 0	+ 1,2 - 0	+ 2,0 - 0	+ 2,5 - 0	+ 0,6 - 0	+ 0,7 - 0	+ 0,9 - 0
2,50	3,50	+ 1,2 - 0	+ 1,2 - 0	+ 1,5 - 0	+ 3,0 - 0	+ 3,0 - 0	+ 0,8 - 0	+ 0,9 - 0	+ 1,0 - 0
3,50	6,50 <sup>3)</sup>	+ 2,0 - 0	+ 2,0 - 0	+ 2,0 - 0	+ 4,0 - 0	+ 4,0 - 0	-	-	-

<sup>1)</sup> By special agreement, products can be supplied with permissible undersizes on the nominal width. In this case, the values in this table apply as the oversize plus undersize range.  
<sup>2)</sup> For material with edges re-cut by shearing, the tolerances on width may by agreement be increased to 5 mm.  
<sup>3)</sup> Including 6,50 mm.

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## 8 Preferred coil inner diameters

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The inside diameter of the coil should be decided by mutual agreement. Preferred inside diameters of coils are approximately 500 mm and approximately 600 mm; in the case of slit cold-rolled wide strip, approximately 400 mm may also be available.

## 9 Tolerances on length

The tolerances on length are given in table 3.

**Table 3: Tolerances on nominal length**

Dimensions in millimetres

Nominal length $l$	Tolerances	
	Normal	Special ( $S$ )
$l \leq 2000$	+ 5 - 0	+ 3 - 0
$2000 < l$	+ 0,0025 x $l$ - 0	+ 0,0015 x $l$ - 0