



SLOVENSKI STANDARD

SIST EN 10058:2004

01-junij-2004

Hot rolled flat steel bars for general purposes - Dimensions and tolerances on shape and dimensions

Hot rolled flat steel bars for general purposes - Dimensions and tolerances on shape and dimensions

Warmgewalzte Flachstäbe aus Stahl für allgemeine Verwendung - Maße, Formtoleranzen und Grenzabmaße

Plats en acier laminés a chaud pour usages généraux - Dimensions et tolérances sur la forme et les dimensions

<https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004>

Ta slovenski standard je istoveten z: **EN 10058:2003**

ICS:

77.140.60 Jeklene palice in drogovi Steel bars and rods

SIST EN 10058:2004 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 10058:2004](#)

<https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 10058

October 2003

ICS 77.140.60

English version

Hot rolled flat steel bars for general purposes - Dimensions and tolerances on shape and dimensions

Plats en acier laminés à chaud pour usages généraux -
Dimensions et tolérances sur la forme et les dimensions

Warmgewalzte Flachstäbe aus Stahl für allgemeine
Verwendung - Maße, Formtoleranzen und Grenzabmaße

This European Standard was approved by CEN on 12 September 2003.

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 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 10058:2004](https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004)

<https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004>



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 10058:2003 (E)

Contents	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Designation	4
5 Dimensions	4
6 Tolerances on dimensions and shape	6
6.1 Thickness (t).....	6
6.2 Width (b).....	6
6.3 Length (L).....	6
6.4 Straightness (q).....	6
6.5 Out-of-section (u).....	6
7 Measurement.....	8
7.1 Thickness and width.....	8
7.2 Length.....	8
7.3 Straightness.....	8
7.4 Out-of-section.....	8
Bibliography.....	10

SIST EN 10058:2004

<https://standards.itech.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004>

Foreword

This document (EN 10058:2003) has been prepared by Technical Committee ECISS/TC 11 "Structural steel sections and hot rolled steel bars for engineering use - Dimensions and tolerances", the secretariat of which is held by BSI.

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 April 2004, and conflicting national standards shall be withdrawn at the latest by April 2004.

This European Standard replaces:

EURONORM 58-78 *Hot rolled flats for general purposes.*

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 10058:2004](https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004)

<https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004>

EN 10058:2003 (E)**1 Scope**

This European Standard specifies the nominal dimensions and the tolerances on dimensions and shape of hot-rolled steel flat bars for general purposes.

This standard is not applicable to spring leaves, see EN 10092-1.

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 publication referred to applies (including amendments).

EN 10079:1992, *Definition of steel products*.

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*.

3 Terms and definitions

For the purposes of this European Standard the terms and definitions given in EN 10079:1992 apply.

4 Designation

- The designation of hot-rolled steel flat bars shall comprise:
- the term "flat bar";
 - the number of this European Standard (EN 10058);
 - dimensions in mm (width x thickness x length (M, F or E, see Table 3));
 - the number of the quality standard and the steel name or steel number of the ordered steel.

EXAMPLE

Flat bar EN 10058 - 20x5x6000M

steel EN 10025 - S235JR

5 Dimensions

Hot rolled flat bars for general purposes complying with this European Standard shall be delivered with the specified dimensions range given in Table 1 and illustrated in Figure 1. The preferred dimensions are presented in Table 1.

NOTE For manufacturing reasons the corners are not sharp.

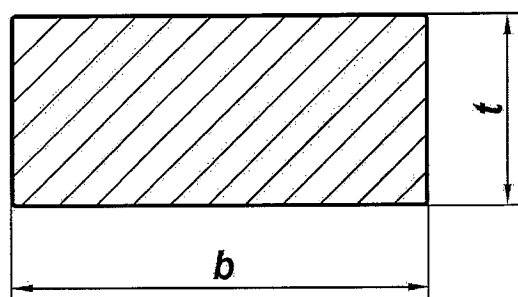


Figure 1 — Hot rolled steel flat bar

Table 1 — Preferred dimensions and mass of hot rolled flats for general purposes

Width <i>b</i> (mm)	Thickness, <i>t</i> (mm)														
	5	6	8	10	12	15	20	25	30	35	40	50	60	80	
	Mass (kg/m ^{a,b})														
10	0,393														
12	0,471	0,565													
15	0,589	0,707	0,942	1,18											
16	0,628	0,754	1,00	1,26											
20	0,785	0,942	1,26	1,57	1,88	2,36									
25	0,981	1,18	1,57	1,96	2,36	2,94									
30	1,18	1,41	1,88	2,36	2,83	3,53	4,71								
35	1,37	1,65	2,20	2,75	3,30	4,12	5,50								
40	1,57	1,88	2,51	3,14	3,77	4,71	6,28	7,85	9,42						
45	1,77	2,12	2,83	3,53	4,24	5,30	7,07	8,83	10,60						
50	1,96	2,36	3,14	3,93	4,71	5,89	7,85	9,81	11,8						
60	2,36	2,83	3,77	4,71	5,65	7,07	9,42	11,8	14,1	16,5	18,8				
70	2,75	3,30	4,40	5,50	6,59	8,24	11,0	13,7	16,5	19,2	22,0				
80	3,14	3,77	5,02	6,28	7,54	9,42	12,6	15,7	18,8	22,0	25,1	31,4	37,7		
90	3,53	4,24	5,65	7,07	8,48	10,6	14,1	17,7	21,2	24,7	28,3	35,3	42,4		
100	3,93	4,71	6,28	7,85	9,42	11,8	15,7	19,6	23,6	27,5	31,4	39,3	47,1		
120		5,65	7,54	9,42	11,3	14,1	18,8	23,6	28,3	33,0	37,7	47,1	56,5		
150		7,06	9,42	11,8	14,1	17,7	23,6	29,4	35,3	41,2	47,1	58,9	70,7	94,2	

^a Calculated using density of 7,85 kg/dm³

^b The masses of stainless steel bars shall be multiplied by the factors according to EN 10088-1.

EN 10058:2003 (E)

6 Tolerances on dimensions and shape

6.1 Thickness (t)

The deviation from nominal thickness (t) shall be within the tolerance given in Table 2.

6.2 Width (b)

The deviation from nominal width (b) shall be within the tolerance given in Table 2.

6.3 Length (L)

Depending on the type of length, flat bars shall be cut to lengths within tolerances given in Table 3.

6.4 Straightness (q)

The straightness shall comply with the requirements given in Table 2. The requirements for waviness may be agreed at the time of enquiry and order.

6.5 Out-of-section (u)

The out-of-section (u) shall be within the tolerance given in Table 2.


iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 10058:2004

<https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004>

Table 2 — Tolerances on dimensions and shape of hot rolled flat bars for general purposes

Dimensions in mm

Width b	Nominal width	Limit deviation ^a
See Figure 1	$10 \leq b \leq 40$	$\pm 0,75$
	$40 < b \leq 80$	± 1
	$80 < b \leq 100$	$\pm 1,5$
	$100 < b \leq 120$	± 2
	$120 < b \leq 150$	$\pm 2,5$
Thickness t	Nominal thickness	Limit deviation ^a
See Figure 1	$t \leq 20$	$\pm 0,5$
	$20 < t \leq 40$	± 1
	$40 < t \leq 80$	$\pm 1,5$
Straightness q	Nominal cross-section	Tolerance in the plane of b
	$< 1\,000 \text{ mm}^2$ $\geq 1\,000 \text{ mm}^2$	$q \leq 0,4 \% \text{ of } L$ $q \leq 0,25 \% \text{ of } L$
	<p style="text-align: center;">SIST EN 10058:2004 https://standards.iteh.ai/catalog/standards/sist/aeb05d4c-bebd-4cb3-b7b0-6917803c6600/sist-en-10058-2004</p>	
Out-of-section u	Nominal thickness	Tolerance
See Figure 2	$10 \leq t \leq 25$	0,5
	$25 < t \leq 40$	1
	$40 < t \leq 80$	1,5
^a When ordering, the total ranges for permissible deviations may, by agreement, be entirely on the plus side.		