



SLOVENSKI STANDARD
SIST EN 10056-2:1998

01-avgust-1998

Kotni (L) jekleni profili z enakimi in različnimi kraki - 2. del: Mere, mejni odstopki in tolerance oblik

Structural steel equal and unequal leg angles - Part 2: Tolerances on shape and dimensions

Gleichschenklige und ungleichschenklige Winkel aus Stahl - Teil 2: Grenzabmaße und Formtoleranzen

Cornières a ailes égales et a ailes inégales en acier de construction - Partie 2: Tolérances de formes et de dimensions

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Ta slovenski standard je istoveten z: EN 10056-2:1993

ICS:

77.140.70 Jekleni profili Steel profiles

SIST EN 10056-2:1998 **en**

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EUROPEAN STANDARD

EN 10056-2:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Descriptors: Iron and steel products, angle irons, structural steels, dimensional tolerances, form tolerances

English version

**Structural steel equal and unequal leg angles -
Part 2: Tolerances on shape and dimensions**

Cornières à ailes égales et à ailes inégales en
acier de construction - Partie 2: Tolérances de
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Gleichschenklige und ungleichschenklige Winkel
aus Stahl - Teil 2: Grenzabmaße und
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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 members are the national standards bodies of Austria, Belgium, 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 Part of European Standard has been prepared by ECISS/TC11 Sections :
Tolerances and dimensions; the Secretariat of which is held by BSI.

The discussions within ECISS/TC11 were based on Euronorm 56:77 Hot rolled equal
angles (with radiused root and toes)

and

Euronorm 57-78 Hot rolled unequal angles (with radiused root and toes)

This European Standard shall be given the status of a national standard, either by publication
of an identical text or by endorsement, at least by march 1994, and conflicting national standards
shall be withdrawn at the latest by march 1994.

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, United Kingdom.

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1 Scope

This Part of this European Standard specifies tolerances on shape dimensions and mass of hot-rolled structural steel equal and unequal leg angles. The sizes of these angles are given in EN 10056-1. These tolerances do not apply to equal and unequal leg angles produced from stainless steel.

NOTE: Until EN 10056-1 is published, either Euronorms 56 and 57 or the corresponding national standards may be used.

2 Normative references

This Part of 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.

EN 10056-1 Structural steel equal and unequal leg angles - Tolerances on shape and dimensions. (under preparation)

EN 10079:1992 Definition of steel products.

Euronorm 56 (1977) Hot rolled equal angles (with radiused root and toes)

Euronorm 57 (1978) Hot rolled unequal angles (with radiused root and toes)

3 Definitions

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

4 Tolerances on shape and dimensions

4.1 Leg length (a or b)

The deviation from nominal on leg length shall be within the tolerance given in table 1.

For unequal leg angles, the longer leg length (a) shall be used to determine the tolerance band.

4.2 Section thickness (t)

The deviation from nominal on thickness shall be within the tolerances given in table 1.

4.3 Out-of-square (k)

Out of squareness of the section shall not exceed the maximum given in table 1.

For unequal leg angles, the longer leg length (a) shall be used to determine the tolerance band.

4.4 Straightness (q)

The deviation from straightness shall not exceed the tolerances given in table 1.

For unequal leg angles, the longer leg length (a) shall be used to determine the tolerance band.

5 Tolerance on mass

The deviation from the nominal mass of any individual piece shall not exceed:

- a) $\pm 6\%$ for thicknesses for $t \leq 4$ mm
- or b) $\pm 4\%$ for thicknesses for $t > 4$ mm

The deviation from the nominal mass is the difference between the actual mass of the piece and the calculated mass. The calculated mass shall be determined using a density of $7,85 \text{ kg/dm}^3$.

6 Tolerance on length

The tolerance on ordered length shall be either :

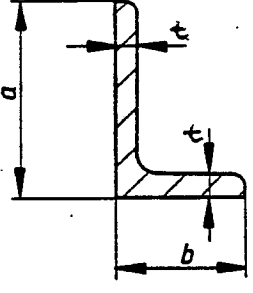
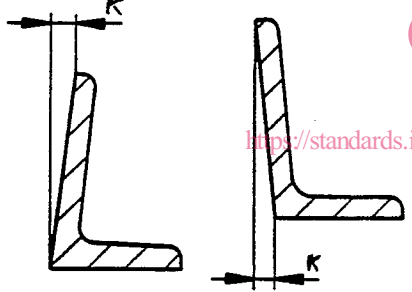
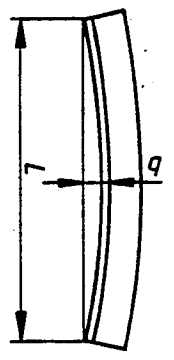
- a) ± 50 mm
- or b) $+ 100$ where minimum lengths are required
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Table 1. Tolerances on dimensions, squareness and straightness of structural steel equal and unequal leg angles

<u>Dimensions</u>	<u>Leg length</u>		<u>Section thickness</u>		
	length	tolerance	thickness (t)	tolerance	
	mm	mm	mm	mm	
	$a \leq 50$	± 1.0	$t \leq 5$	± 0.50	
	$50 < a \leq 100$	± 2.0	$5 < t \leq 10$	± 0.75	
	$100 < a \leq 150$	± 3.0	$10 < t \leq 15$	± 1.00	
	$150 < a \leq 200$	± 4.0	$15 < t$	± 1.20	
	$200 < a$	$+ 6.0$ $- 4.0$			
<u>Squareness</u>	<u>Out of square</u>		<u>tolerance</u>		
	leg length (a)		tolerance (k)		
	mm		mm		
	$a \leq 100$		1.0		
	$100 < a \leq 150$		1.5		
	$150 < a \leq 200$		2.0		
$200 < a$		3.0			
<u>Straightness</u>	leg length	Tolerance over full bar length (L)	leg length	Tolerance over any part	
	a	q	a	Length considered	q
	mm	mm	mm	mm	mm
	$a \leq 150$	$0.4 \% L$	$a \leq 150$	1500	6
	$150 < a \leq 200$	$0.2 \% L$	$150 < a \leq 200$	2000	3
	$200 < a$	$0.1 \% L$	$200 < a$	3000	3