

**Likebent og ulikebent vinkelprofil av
konstruksjonsstål**
Del 2: Form- og dimensjonstoleranser

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

Nasjonalt forord

Den engelskspråklige versjonen av europeisk standard EN 10056-2:1993 er fastsatt som Norsk Standard NS-EN 10056-2:1994.

Denne standarden erstatter deler av NS 1903:1983 og NS 1904:1983.

Punkt 2 Dimensjoner i NS 1903:1983 og punkt 2 Dimensjoner i NS 1904:1983 erstattes ikke av NS-EN 10056-2:1994. Disse punktene utgis som nasjonale tillegg NA og NB til denne standarden.

De nasjonale tilleggene er:

Tillegg NA (informativt)	
Varmvalsede vinkelstål	
Likebente og rundkantede	7
Tillegg NB (informativt)	
Varmvalsede vinkelstål	
Ulikebente og rundkantede	11

National foreword

The English language version of European standard EN 10056-2:1993 has been adopted as Norwegian Standard NS-EN 10056-2:1994.

This standard supersedes parts of NS 1903:1983 and NS 1904:1983.

Clause 2 Dimensions in NS 1903:1983 and clause 2 Dimensions in NS 1904:1983 are not superseded by NS-EN 10056-2:1994. These clauses are published as national annexes NA and NB to this standard.

The national annexes NA and NB are:

Annex NA (informative)	
Hot-rolled steel angles	
Equal angles and rounded edges	7
Annex NB (informative)	
Hot-rolled steel angles	
Unequal angles and rounded edges	11

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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 formes et de
dimensions

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

This European Standard was approved by CEN on 1993-08-30. 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, 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

Foreword

This Part of this European Standard has been prepared by ECISS/TC 11 Sections : Tolerances and dimensions, the Secretariat of which is held by BSI.

The discussions within ECISS/TC 11 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	<i>Structural steel equal and unequal leg angles — Tolerances on shape and dimensions (under preparation)</i>
EN 10079 : 1992	<i>Definition of steel products</i>
Euronorm 56 (1977)	<i>Hot rolled equal angles (with radiused root and toes)</i>
Euronorm 57 (1978)	<i>Hot rolled unequal angles (with radiused root and toes)</i>

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:

- $\pm 6\%$ for thicknesses for $t \leq 4$ mm; or
- $\pm 4\%$ 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:

- ± 50 mm; or
- ${}^+100_0$ where minimum lengths are required.