



SLOVENSKI STANDARD

SIST EN 10055:1998

01-avgust-1998

Vročje valjani simetrični profili T z zaobljenimi robovi in koreni - Mere, mejni odstopki in tolerance oblik

Hot rolled steel equal flange tees with radiused root and toes - Dimensions and tolerances on shape and dimensions

Warmgewalzter gleichschenkliger T-Stahl mit gerundeten Kanten und Übergängen - Maße, Grenzabmaße und Formtoleranzen

Fers T en acier a ailes égales et a coins arrondis en acier laminés a chaud - Dimensions et tolérances sur la forme et les dimensions

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Ta slovenski standard je istoveten z: **EN 10055:1995**

ICS:

77.140.70 Jekleni profili Steel profiles

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EUROPEAN STANDARD

EN 10055

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1995

ICS 77.140.70

Descriptors: iron and steel products, hot rolled products, T bars, steels, designation, dimensions, dimensional tolerances, form tolerances

English version

**Hot rolled steel equal flange tees with radiused
root and toes - Dimensions and tolerances on
shape and dimensions**

Fers T en acier à ailes égales et à coins
arrondis en acier laminés à chaud - Dimensions
et tolérances sur la forme et les dimensions

Warmgewalzter gleichschenkliger T-Stahl mit
gerundeten Kanten und Übergängen - Maße,
Grenzabmaße und Formtoleranzen

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This European Standard was approved by CEN on 1995-06-30. 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.

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, 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 the Technical Committee ECISS/TC 11 "Structural steel sections" of which the Secretariat is held by BSI.

The discussions within ECISS/TC 11 were based on Euronorm 55.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at latest by May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

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 European Standard specifies requirements for the nominal dimensions and the tolerances on dimensions, shape and mass of hot-rolled steel equal flange tees with radiused root and toes. These requirements do not apply to equal flange tees produced from stainless steel.

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.

En 10025	Hot rolled products of non alloy structural steels and their technical delivery standards.
EN 10079	Definition of steel products

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3. Definitions

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

4. Designation

The designation of the hot-rolled equal flanged tees shall comprise:

- the term 'tee'
- the number of this European Standard
- the letter T
- the height h in mm
- number of the quality standard and the steel name or steel number of the ordered steel

Example: Tee EN 10055 - T 40 - steel EN 10025 - S235JR

5. Dimensions

Hot-rolled equal flange tees with radiused root and toes complying with this European Standard shall be produced with the dimensions given in Table 1 and illustrated in Figure 1.

6. Tolerances on dimensions and shape

6.1. Section height (h)

The deviation from nominal on section height (h) shall be within the tolerance given in table 2.

6.2. Flange width (b)

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

6.3. Web thickness (s)

The deviation from nominal on web thickness, when measured at a distance $h/2$ from the outer edge of the web shall be within the tolerance given in table 2.

6.4. Flange thickness (t)

The deviation from nominal on flange thickness when measured at a distance of $b/4$ from the outer edge of the flange shall be within the tolerance given in Table 2.

6.5. Out of square (k)

The out of squareness of the section shall not exceed the maximum given in table 2.

6.6. Symmetry (e)

The tolerance on symmetry shall not be greater than that given in Table 2 where

$$e = \frac{b_1 - b_2}{2}$$

6.7. Straightness (q_{xx} or q_{yy})

The straightness shall comply with the requirements given in table 2.

7. Tolerance on mass

The mass of a piece shall be within - 8 % of the calculated mass for thicknesses $4 \text{ mm} \leq s$ and $t \leq 7 \text{ mm}$ (see table 2) and within - 6 % of the calculated mass for s and $t > 7 \text{ mm}$. The calculated mass shall be determined using a density of $7,85 \text{ kg/dm}^3$.

8. Tolerance on length

The sections shall be cut to ordered lengths (L) to tolerances in accordance with Table 2.

NOTE. L represents the longest useable length of the section assuming that the ends of the section have been cut square.

Table 1. Designation and dimensions of hot rolled steel equal flange tees with radiused root and toes

Designation	Mass kg/m	Cross-section cm ²	Dimensions						Position of centre of gravity			Characteristics with respect to the axis					
			Height		Width b	Thick-ness s and t	Radii			d	X-X			Y-Y			
			h	r			r ₁	r ₂	I _x cm ⁴		$\frac{I_x}{V_x}$ cm ³	i _x cm	I _y cm ⁴	$\frac{I_y}{V_y}$ cm ³	i _y cm		
T30	1,77	2,26	30	4	4	2	1	0,85	1,72	0,80	0,87	0,87	0,58	0,62			
T35	2,33	2,97	35	4,5	2,5	1	0,99	3,10	1,23	1,04	1,57	0,90	0,73				
T40	2,96	3,77	40	5	2,5	1	1,12	5,28	1,84	1,18	2,58	1,29	0,83				
T50	4,44	5,66	50	6	3	1,5	1,39	12,1	3,36	1,46	6,06	2,42	1,03				
T60	6,23	7,94	60	7	3,5	2	1,66	23,8	5,48	1,73	12,2	4,07	1,24				
T70	8,32	10,6	70	8	4	2	1,94	44,5	8,79	2,05	22,1	6,32	1,44				
T80	10,7	13,6	80	9	4,5	2	2,22	73,7	12,8	2,33	37,0	9,25	1,65				
T100	16,4	20,9	100	11	5,5	3	2,74	179	24,6	2,92	88,3	17,7	2,05				
T120	23,2	29,6	120	13	6,5	3	3,28	366	42,0	3,51	178	29,7	2,45				
T140	31,3	39,9	140	15	7,5	4	3,80	660	64,7	4,07	330	47,2	2,88				

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