

SLOVENSKI STANDARD SIST EN 754-4:1998

01-april-1998

5`i a]b]^]b'U`i a]b]^Yj Y'n`]h]bY'!'<`UXbc'j`Y YbY'dU']W\#Xfc[cj]']b'W\fj]'!'("XY. DU']W\fg'_j UXfU\fb]a 'dfYfYnca z\fc`YfUbW\fa Yf']b'cV`]_Y

Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 4: Square bars, tolerances on dimensions and form

Aluminium und Aluminiumlegierungen - Gezogene Stangen und Rohre - Teil 4: Vierkantstangen, Grenzahmaße und Formtoleranzen REVIEW

Aluminium et alliages d'aluminium - Barres et tubes étirés - Partie 4: Barres carrées, tolérances sur dimensions et forme

https://standards.iteh.ai/catalog/standards/sist/d36ceab4-640b-4462-8d42-

Ta slovenski standard je istoveten z: EN 754-4-1998

ICS:

77.150.10 Aluminijski izdelki Aluminium products

SIST EN 754-4:1998 en

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 754-4:1998

https://standards.iteh.ai/catalog/standards/sist/d36ceab4-640b-4462-8d42-d2e00b3de0b3/sist-en-754-4-1998

EUROPEAN STANDARD

EN 754-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1995

ICS 77.120.10; 77.140.90

Descriptors:

drawn products, rolled products, aluminium, aluminium alloys, metal bars, square bars, dimensions, dimensional tolerances, form tolerances

English version

Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 4: Square bars, tolerances on dimensions and form

Aluminium et alliages d'aluminium - Barres et tubes étirés - Partie 4: Barres carrées, tolérances sur dimensions et forme

Aluminium and Aluminiumlegierungen - Gezogene Stangen und Rohre - Teil 4: Vierkantstangen, Grenzabmaße und Formtoleranzen

This European Standard was approved by CEN on 1995-09-15. 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 of to any CEN member DARD PREVIEW

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.

https://standards.iteh.ai/catalog/standards/sist/d36ceab4-640b-4462-8d42-

d2e00b3de0b3/sist-eP/PAI

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

Content	Contents	
Forewo	rd	3
1	Scope	4
2	Tolerances on dimensions and form	
2.1	Width across flats	
2.2	Corner radii	4
2.3	Squareness	5
2.4	Convexity - Concavity	6
2.5	Straightness	6
2.6	Twist	6
2.7	Length	7
2.8	Squareness of cut ends	

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 754-4:1998

https://standards.iteh.ai/catalog/standards/sist/d36ceab4-640b-4462-8d42-d2e00b3de0b3/sist-en-754-4-1998



Foreword

This European Standard has been drawn up by CEN/TC 132 "Aluminium and aluminium alloys", whose Secretariat is held by the Association Française de Normalisation (AFNOR).

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 5 "Extruded and drawn products" to prepare the following standard:

EN 754-4 Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 4 : Square bars, tolerances on dimensions and form

This standard is part of a set of eight standards. The other standards deal with :

EN 754-1	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 1 : Technical conditions for inspection and delivery
EN 754-2	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 2 : Mechanical properties
EN 754-3	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 3 : Round bars, tolerances on dimensions and form
EN 754-5	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 5 : Rectangular bars, tolerances on dimensions and form
EN 754-6	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 6 : Hexagonal bars, tolerances on dimensions and form
EN 754-7	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 7 : Seamless tubes, tolerances on dimensions and form
EN 754-8	Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 8 : Porthole tubes, tolerances on dimensions and form

CEN/TC 132 met on 11 and 12 May 1993 in Paris and agreed on the text to be submitted to CEN members for formal vote.

1 Ten STANDARD PREVIEW

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 May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

The following countries were represented at that meeting: Belgium - Denmark - France - Germany - Italy - Netherlands - Norway - Sweden - Switzerland - United Kingdom.

According to the common CEN/CENELEC Rules, 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 and the United Kingdom.

1 Scope

This part of EN 754 specifies the tolerances on dimensions and form for aluminium and aluminium alloy cold drawn square bars having widths across flats from 3 mm up to 100 mm.

2 Tolerances on dimensions and form

2.1 Width across flats

The tolerances on width across flats are specified in table 1.

Table 1: Width across flats tolerances

Dimensions in millimetres Width across flats S Tolerances from up to 0 3 1) 6 - 0,08 0 6 10 - 0,09 0 10 18 - 0,11 0 18 30 - 0,13 0 30 50 - 0,16 50 65 - 0,19 0 65 80 - 0,30 80 100

1) Except width across flats 3 mm which may be used.

- 0,35

(standards.iteh.ai)

2.2 Corner radii

SIST EN 754-4:1998

https://standards.iteh.ai/catalog/standards/sist/d36ceab4-640b-4462-8d42-

Maximum corner radii are specified in table 2.754-4-1998

Table 2: Maximum corner radii

Dimensions in millimetres

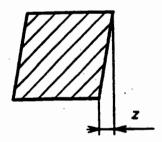
Width acr	oss flats S	Maximum corner radii	
from	up to		
3 1)	8	0,4	
8	30	0,8	
30	60	1,0	
60	80	1,5	
80	100	2,0	
	 	<u> </u>	

¹⁾ Except width across flats 3 mm which may be used.

2.3 Squareness

The deviation from square shall be measured as shown in figure 1.

Squareness tolerances are specified in table 3.



iTerigure 1.4 Measurement of deviation from square (standards.iteh.ai)

Table 3 : Squareness tolerances

https://standards.iteh.ai/catalog/standards/sist/d36ceal-4-640b-446318d42

1	d2e00h3de0h3/sist-en-754-4-1998				
	Width acre	oss flats S	Maximum deviation		
	from	up to and including	from square z		
	3	100	0,005 x width		

2.4 Convexity - Concavity

The convexity - concavity for square bars shall be included within the width across flats tolerances.

2.5 Straightness

Deviations from straightness, $h_{\rm S}$ and $h_{\rm t}$, shall be measured as shown in figure 2 with the bar placed on a horizontal baseplate so that its mass decreases the deviation.

For square bars with width across flats equal or greater than 10 mm, the straightness tolerances are specified in table 4.

For square bars with width across flats less than 10 mm, the straightness tolerances shall be agreed upon between purchaser and supplier.

The straightness tolerances apply to bars in all tempers except O and Tx51. If a straightness tolerance is required for either O or Tx51 temper, it shall be agreed between purchaser and supplier.

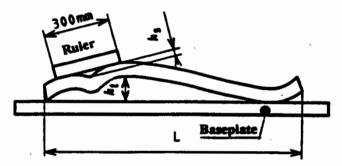


Figure 2: Measurement of deviation from straightness

Table 4: Straightness tolerances

		Dime	ensions in millimetres
Width acr		Maximum deviation	Maximum localized kink
from	up to and	rds.iteh.ai) from straightness	in any 300 mm portion
https://standar	ds.iteh.ai/catalog/sta	ndards/sist/036cea04-640b-44	62-8d42- h s
10	100 100	3/sist-en-754-4-1998 2	0,6

2.6 Twist

The twist measurement shall be carried out as shown in figure 3.

The twist tolerances are specified in table 5.

For square bars with width across flats less than 10 mm, the twist tolerances shall be agreed between purchaser and supplier.

The twist tolerances apply to bars in all tempers except O and Tx51. If a twist tolerance is required for either O or Tx51 temper, it shall be agreed between purchaser and supplier.

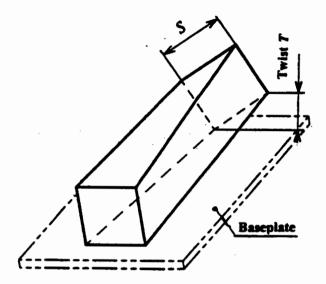


Figure 3: Measurement of twist

Table 5: Twist tolerances

Dimensions in millimetres

Width across flats S		Twist tolerances T	
from	up to and including	per 1 000 mm of length	over the total length
10 ¹⁾	30	1,0	3,0
30	60	1,5	3,5
iTeb ST	AN100AR	D PREVIE	W 4,0
1) Except width across flats 10 mm which may be used.			

SIST EN 754-4:1998

https://standards.iteh.ai/catalog/standards/sist/d36ceab4-640b-4462-8d42-d2e00b3de0b3/sist-en-754-4-1998

2.7 Length

If fixed lengths are to be supplied, this shall be stated on the order. The fixed length tolerances are specified in table 6.