SLOVENSKI STANDARD
SIST EN 10056-1:2000

01-april-2000

Kotni (L) jekleni profili z enakimi in različnimi kraki - 1. del: Mere

Structural steel equal and unequal leg angles - Part 1: Dimensions

Gleichschenklige und ungleichschenklige Winkel aus Stahl - Teil 1: Maße

Cornieres a ailes égales et inégales en acier de construction - Partie 1: Dimensions

Ta slovenski standard je istoveten z: **EN 10056-1:1998**

ICS:

77.140.70	Jekleni profili	Steel profiles

SIST EN 10056-1:2000 **en**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10056-1

August 1998

ICS 77.140.70

Descriptors: iron- and steel products, hot rolled products, angle irons, designation, dimensions, sections

English version

Structural steel equal and unequal leg angles - Part 1: Dimensions

Cornières à ailes égales et inégales en acier de
construction - Partie 1: Dimensions

Gleichschenklige und ungleichschenklige Winkel aus Stahl
- Teil 1: Maße

This European Standard was approved by CEN on 21 December 1997.

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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.

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

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Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 11 "Structural steel sections", 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of an identical text or by endorsement, at the latest by February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

The discussions within ECISS/TC11 were based on Euronorms 56 and 57 and ISO 657-1 and ISO 657-2.

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

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1 Scope

This Part of this European Standard specifies requirements for the nominal dimensions of hot-rolled equal and unequal leg angles. This European Standard does not apply to angles with square roots. These requirements do not apply to equal and unequal leg angles rolled from stainless steel. Tolerances for equal and unequal leg angles are given in EN 10056-2.

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 10079   Definition of steel products

EN 10056-2   Structural steel equal and unequal leg angles
              Part 2: Tolerances on shape an dimensions

3 Definitions

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

4 Designation

The designation of the hot-rolled equal and unequal leg angles shall comprise:

> 1) the letter L for angles;
>
> 2) the number of this European Standard;
>
> 3) the leg length a (in mm);
>
> 4) the leg length a or b (in mm);
>
> 5) the leg thickness t (in mm).

Example:

Either L EN 10056-1-70 x 70 x 7

or L EN 10056-1-50 x 30 x 5

5 Dimensions

Hot-rolled equal and unequal leg angles complying with this European Standard shall be delivered with the dimensions given in tables 1 and 2 and illustrated in figures 1 and 2.

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Table 1. Dimensions and sectional properties of hot-rolled equal-leg angles

Designation	Mass	Sectional area	Dimensions			Distances of centre of gravity			Sectional properties about axes							
			a	t	r_{root}	$c_z = c_y$	c_u	c_v	X-X = Y-Y			U-U		V-V		
									$I_z = I_y$	$r_z = r_y$	$Z_z = Z_y$	I_u	r_u	I_v	r_v	Z_v
	kg/m	cm²	mm	mm	mm	cm	cm	cm	cm⁴	cm	cm³	cm⁴	cm	cm⁴	cm	cm³
20x20x3	0,882	1,12	20	3	3,5	0,598	1,41	0,846	0,392	0,590	0,279	0,618	0,742	0,165	0,383	0,195
25x25x3	1,12	1,42	25	3	3,5	0,723	1,77	1,02	0,803	0,751	0,452	1,27	0,945	0,334	0,484	0,326
25x25x4	1,45	1,85	25	4	3,5	0,762	1,77	1,08	1,02	0,741	0,586	1,61	0,931	0,430	0,482	0,399
30x30x3	1,36	1,74	30	3	5	0,835	2,12	1,18	1,40	0,899	0,649	2,22	1,13	0,585	0,581	0,496
30x30x4	1,78	2,27	30	4	5	0,878	2,12	1,24	1,80	0,892	0,850	2,85	1,12	0,754	0,577	0,607
35x35x4	2,09	2,67	35	4	5	1,00	2,47	1,42	2,95	1,05	1,18	4,68	1,32	1,23	0,678	0,865
40x40x4	2,42	3,08	40	4	6	1,12	2,83	1,58	4,47	1,21	1,55	7,09	1,52	1,86	0,777	1,17
40x40x5	2,97	3,79	40	5	6	1,16	2,83	1,64	5,43	1,20	1,91	8,60	1,51	2,26	0,773	1,38
45x45x4,5	3,06	3,90	45	4,5	7	1,25	3,18	1,78	7,14	1,35	2,20	11,4	1,71	2,94	0,870	1,65
50x50x4	3,06	3,89	50	4	7	1,36	3,54	1,92	8,97	1,52	2,46	14,2	1,91	3,73	0,979	1,94
50x50x5	3,77	4,80	50	5	7	1,40	3,54	1,99	11,0	1,51	3,05	17,4	1,90	4,55	0,973	2,29
50x50x6	4,47	5,69	50	6	7	1,45	3,54	2,04	12,8	1,50	3,61	20,3	1,89	5,34	0,968	2,61
60x60x5	4,57	5,82	60	5	8	1,64	4,24	2,32	19,4	1,82	4,45	30,7	2,30	8,03	1,17	3,46
60x60x6	5,42	6,91	60	6	8	1,69	4,24	2,39	22,8	1,82	5,29	36,1	2,29	9,44	1,17	3,96
60x60x8	7,09	9,03	60	8	8	1,77	4,24	2,50	29,2	1,80	6,89	46,1	2,26	12,2	1,16	4,86
65x65x7	6,83	8,7	65	7	9	1,85	4,60	2,62	33,4	1,96	7,18	53,0	2,47	13,8	1,26	5,27
70x70x6	6,38	8,13	70	6	9	1,93	4,95	2,73	36,9	2,13	7,27	58,5	2,68	15,3	1,37	5,60
70x70x7	7,38	9,40	70	7	9	1,97	4,95	2,79	42,3	2,12	8,41	67,1	2,67	17,5	1,36	6,28

Table 1. Dimensions and sectional properties of hot-rolled equal-leg angles (continued)

Designation	Mass	Sectional area	Dimensions			Distances of centre of gravity			Sectional properties about axes							
									X-X = Y-Y			U-U		V-V		
			a	t	r_{ext}	$c_x = c_y$	c_u	c_v	$I_x = I_y$	$r_x = r_y$	$Z_1 = Z_y$	I_u	r_u	I_v	r_v	Z_v
	kg/m	cm²	mm	mm	mm	cm	cm	cm	cm⁴	cm	cm³	cm⁴	cm	cm⁴	cm	cm³
75x75x6	6,85	8,73	75	6	9	2,05	5,30	2,90	45,8	2,29	8,41	72,7	2,89	18,9	1,47	6,53
75x75x8	8,99	11,4	75	8	9	2,14	5,30	3,02	59,1	2,27	11,0	93,8	2,86	24,5	1,46	8,09
80x80x8	9,63	12,3	80	8	10	2,26	5,66	3,19	72,2	2,43	12,6	115	3,06	29,9	1,56	9,37
80x80x10	11,9	15,1	80	10	10	2,34	5,66	3,30	87,5	2,41	15,4	139	3,03	36,4	1,55	11,0
90x90x7	9,61	12,2	90	7	11	2,45	6,36	3,47	92,6	2,75	14,1	147	3,46	38,3	1,77	11,0
90x90x8	10,9	13,9	90	8	11	2,50	6,36	3,53	104	2,74	16,1	166	3,45	43,1	1,76	12,2
90x90x9	12,2	15,5	90	9	11	2,54	6,36	3,59	116	2,73	17,9	184	3,44	47,9	1,76	13,3
90x90x10	13,4	17,1	90	10	11	2,58	6,36	3,65	127	2,72	19,8	201	3,42	52,6	1,75	14,4
100x100x8	12,2	15,5	100	8	12	2,74	7,07	3,87	145	3,06	19,9	230	3,85	59,9	1,96	15,5
100x100x10	15,0	19,2	100	10	12	2,82	7,07	3,99	177	3,04	24,6	280	3,83	73,0	1,95	18,3
100x100x12	17,8	22,7	100	12	12	2,90	7,07	4,11	207	3,02	29,1	328	3,80	85,7	1,94	20,9
120x120x10	18,2	23,2	120	10	13	3,31	8,49	4,69	313	3,67	36,0	497	4,63	129	2,36	27,5
120x120x12	21,6	27,5	120	12	13	3,40	8,49	4,80	368	3,65	42,7	584	4,60	152	2,35	31,6
130x130x12	23,6	30,0	130	12	14	3,64	9,19	5,15	472	3,97	50,4	750	5,00	194	2,54	37,7
150x150x10	23,0	29,3	150	10	16	4,03	10,6	5,71	624	4,62	56,9	990	5,82	258	2,97	45,1
150x150x12	27,3	34,8	150	12	16	4,12	10,6	5,83	737	4,60	67,7	1170	5,80	303	2,95	52,0
150x150x15	33,8	43,0	150	15	16	4,25	10,6	6,01	898	4,57	83,5	1430	5,76	370	2,93	61,6
160x160x15	36,2	46,1	160	15	17	4,49	11,3	6,35	1100	4,88	95,6	1750	6,15	453	3,14	71,3