



SLOVENSKI STANDARD

SIST EN 2048:2002

01-januar-2002

Aerospace series - Extruded L-section, in aluminium alloys - Dimensions

Aerospace series - Extruded L-section, in aluminium alloys - Dimensions

Luft- und Raumfahrt - Gepresste Winkelprofile, aus Aluminiumlegierung - Maße

Série aérospatiale - Cornières à ailes égales et inégales filées, en alliage d'aluminium - Dimensions

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Ta slovenski standard je istoveten z: **EN 2048:2001**

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ICS:

49.025.20 Aluminij Aluminium

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2048

June 2001

ICS 49.025.20

English version

Aerospace series - Extruded L-section, in aluminium alloys - Dimensions

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Aluminiumlegierung - Maße

This European Standard was approved by CEN on 2 May 2001.

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 Management Centre 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

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 December 2001, and conflicting national standards shall be withdrawn at the latest by December 2001.

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.

0 Introduction

This standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

1 Scope

This standard specifies the dimensions and tolerances of:

Extruded L-section,
in aluminium alloys

for aerospace applications.

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 2066 Aerospace series – Extruded section in aluminium and aluminium alloys – General tolerances

EN 4258 Aerospace series – Metallic materials – General organization of standardization – Links between types of EN standards and their use

3 Form

See figure 1.

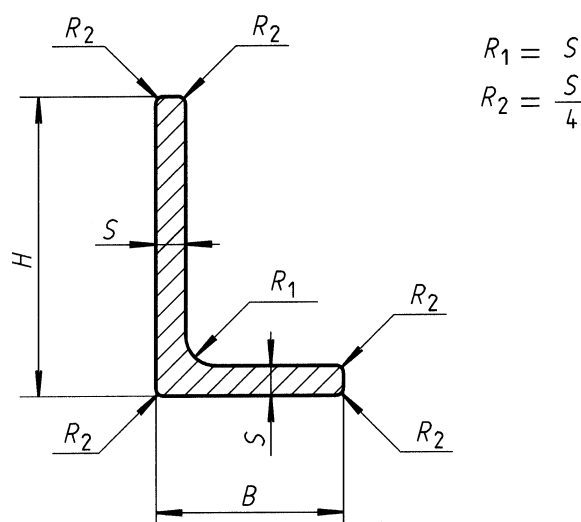


Figure 1

4 Recommended dimensions and mass**4.1 Height, width, thickness and mass**

See table 1.

Table 1

Dimensions and tolerances mm						Linear mass ^a kg/m
H		B		S		
10	± 0,25	10	± 0,25	2	± 0,20	0,10
12	± 0,25	12	± 0,25	1,2	± 0,18	0,08
15	± 0,25	10	± 0,25	2	± 0,20	0,13
15	± 0,25	15	± 0,25	2	± 0,20	0,16
16	± 0,30	16	± 0,30	1,2	± 0,16	0,10
16	± 0,30	16	± 0,30	1,6	± 0,20	0,14
16	± 0,30	16	± 0,30	2	± 0,20	0,17
20	± 0,35	10	± 0,25	2	± 0,20	0,16
20	± 0,35	12	± 0,25	2	± 0,20	0,17
20	± 0,35	16	± 0,30	1,2	± 0,18	0,12
20	± 0,35	16	± 0,30	1,6	± 0,20	0,16
20	± 0,35	16	± 0,30	2	± 0,20	0,19
20	± 0,35	20	± 0,35	1,2	± 0,18	0,13
20	± 0,35	20	± 0,35	1,6	± 0,20	0,17
20	± 0,35	20	± 0,35	2	± 0,20	0,21
20	± 0,35	20	± 0,35	2,5	± 0,20	0,27
25	± 0,40	15	± 0,25	2	± 0,20	0,21
25	± 0,40	16	± 0,30	1,6	± 0,20	0,18
25	± 0,40	16	± 0,30	2	± 0,20	0,22
25	± 0,40	16	± 0,30	2,5	± 0,20	0,27
25	± 0,40	20	± 0,35	1,6	± 0,20	0,19
25	± 0,40	20	± 0,35	2	± 0,20	0,24
25	± 0,40	20	± 0,35	2,5	± 0,20	0,30
25	± 0,40	25	± 0,40	1,6	± 0,20	0,28
25	± 0,40	25	± 0,40	2	± 0,20	0,27
25	± 0,40	25	± 0,40	2,5	± 0,20	0,34
25	± 0,40	25	± 0,40	3,2	± 0,25	0,42
28	± 0,40	20	± 0,35	1,6	± 0,20	0,20
30	± 0,50	20	± 0,35	2	± 0,20	0,27
30	± 0,50	20	± 0,35	3	± 0,25	0,35
30	± 0,50	30	± 0,50	3	± 0,25	0,49
32	± 0,50	20	± 0,35	1,6	± 0,20	0,22
32	± 0,50	20	± 0,35	2	± 0,20	0,28
32	± 0,50	20	± 0,35	2,5	± 0,20	0,35
32	± 0,50	20	± 0,35	3	± 0,25	0,41
32	± 0,50	20	± 0,35	3,2	± 0,25	0,44
32	± 0,50	25	± 0,40	1,6	± 0,20	0,25
32	± 0,50	25	± 0,40	2	± 0,20	0,31
32	± 0,50	25	± 0,40	2,5	± 0,20	0,38
32	± 0,50	25	± 0,40	3,2	± 0,25	0,49
32	± 0,50	32	± 0,50	2	± 0,20	0,34
32	± 0,50	32	± 0,50	2,5	± 0,20	0,43
32	± 0,50	32	± 0,50	3	± 0,25	0,51
32	± 0,50	32	± 0,50	3,2	± 0,25	0,55

(continued)

Table 1 (continued)

Dimensions and tolerances mm						Linear mass ^a kg/m
<i>H</i>		<i>B</i>		<i>S</i>		
40	± 0,50	20	± 0,35	2	± 0,20	0,33
40	± 0,50	20	± 0,35	2,5	± 0,20	0,41
40	± 0,50	20	± 0,35	3,2	± 0,25	0,51
40	± 0,50	25	± 0,40	2,5	± 0,20	0,44
40	± 0,50	25	± 0,40	3	± 0,25	0,52
40	± 0,50	25	± 0,40	3,2	± 0,25	0,56
40	± 0,50	25	± 0,40	4	± 0,25	0,69
40	± 0,50	32	± 0,50	2,5	± 0,20	0,48
40	± 0,50	32	± 0,50	3,2	± 0,25	0,62
40	± 0,50	32	± 0,50	4	± 0,25	0,77
40	± 0,50	40	± 0,50	2	± 0,20	0,43
40	± 0,50	40	± 0,50	2,5	± 0,20	0,55
40	± 0,50	40	± 0,50	3	± 0,25	0,65
40	± 0,50	40	± 0,50	3,2	± 0,25	0,69
40	± 0,50	40	± 0,50	4	± 0,25	0,86
50	± 0,50	25	± 0,40	2,5	± 0,20	0,51
50	± 0,50	25	± 0,40	3,2	± 0,25	0,65
50	± 0,50	25	± 0,40	4	± 0,25	0,80
50	± 0,50	30	± 0,50	3	± 0,25	0,65
50	± 0,50	30	± 0,50	4	± 0,25	0,85
50	± 0,50	32	± 0,50	3,2	± 0,25	0,71
50	± 0,50	32	± 0,50	4	± 0,25	0,88
50	± 0,50	32	± 0,50	5	± 0,25	1,08
50	± 0,50	40	± 0,50	3,2	± 0,25	0,78
50	± 0,50	40	± 0,50	4	± 0,25	0,97
50	± 0,50	40	± 0,50	5	± 0,25	1,21
50	± 0,50	50	± 0,50	2,5	± 0,20	0,65
50	± 0,50	50	± 0,50	3,2	± 0,25	0,83
50	± 0,50	50	± 0,50	4	± 0,25	1,1
50	± 0,50	50	± 0,50	5	± 0,25	1,3
60	± 0,70	40	± 0,50	4	± 0,25	1,08
60	± 0,70	40	± 0,50	5	± 0,25	1,33
60	± 0,70	60	± 0,70	6	± 0,30	1,92
63	± 0,70	32	± 0,50	3,2	± 0,25	0,83
63	± 0,70	32	± 0,50	4	± 0,25	1,0
63	± 0,70	32	± 0,50	5	± 0,25	1,3
63	± 0,70	40	± 0,50	4	± 0,25	1,1
63	± 0,70	40	± 0,50	5	± 0,25	1,4
63	± 0,70	40	± 0,50	6	± 0,30	1,63
63	± 0,70	50	± 0,50	4	± 0,25	1,2
63	± 0,70	50	± 0,50	5	± 0,25	1,5
63	± 0,70	50	± 0,50	6,3	± 0,30	1,9
63	± 0,70	63	± 0,70	4	± 0,25	1,36
63	± 0,70	63	± 0,70	5	± 0,25	1,7
63	± 0,70	63	± 0,70	6,3	± 0,30	2,1
80	± 0,70	40	± 0,50	4	± 0,25	1,3
80	± 0,70	40	± 0,50	5	± 0,25	1,6
80	± 0,70	40	± 0,50	6,3	± 0,30	2,0

(continued)

Table 1 (concluded)

Dimensions and tolerances mm						Linear mass ^a kg/m
<i>H</i>		<i>B</i>		<i>S</i>		
80	± 0,70	50	± 0,50	5	± 0,25	1,8
80	± 0,70	50	± 0,50	6	± 0,30	2,08
80	± 0,70	50	± 0,50	6,3	± 0,30	2,2
80	± 0,70	50	± 0,50	8	± 0,30	2,28
80	± 0,70	63	± 0,70	5	± 0,25	1,9
80	± 0,70	63	± 0,70	6,3	± 0,30	2,4
80	± 0,70	63	± 0,70	8	± 0,30	3,1
80	± 0,70	80	± 0,70	5	± 0,25	2,12
80	± 0,70	80	± 0,70	6	± 0,30	2,59
80	± 0,70	80	± 0,70	6,3	± 0,30	2,7
80	± 0,70	80	± 0,70	8	± 0,30	3,4
100	± 0,85	50	± 0,50	5	± 0,25	2,0
100	± 0,85	50	± 0,50	6	± 0,30	2,42
100	± 0,85	50	± 0,50	6,3	± 0,30	2,5
100	± 0,85	50	± 0,50	8	± 0,30	3,2
100	± 0,85	63	± 0,70	6,3	± 0,30	2,8
100	± 0,85	63	± 0,70	8	± 0,30	3,5
100	± 0,85	63	± 0,70	10	± 0,30	4,28
100	± 0,85	80	± 0,70	6,3	± 0,30	3,1
100	± 0,85	80	± 0,70	8	± 0,30	3,9
100	± 0,85	80	± 0,70	10	± 0,30	4,8
100	± 0,85	100	± 0,85	8	± 0,30	4,3
100	± 0,85	100	± 0,85	10	± 0,30	5,4
125	± 0,85	80	± 0,70	10	± 0,30	5,46
125	± 0,85	80	± 0,70	12	± 0,30	6,48
160	± 1,30	100	± 0,85	12	± 0,30	8,33
160	± 1,30	100	± 0,85	16	± 0,30	10,93

^a For information, calculated with a density of 2,8 kg/dm³

4.2 Beaded radii

a) dimensions

$$R_1 = S$$

$$R_2 = \frac{S}{4}$$

b) tolerances

See EN 2066.

4.3 Length

See EN 2066.

5 Geometric tolerances

See EN 2066.