SLOVENSKI STANDARD
SIST EN 2071:2004

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Aerospace series - Sheets in aluminium and aluminium alloys - Thickness 0,25 mm < a < 6 mm - Dimensions

Aerospace series - Sheets in aluminium and aluminium alloys - Thickness 0,25 mm < a < 6 mm - Dimensions

Luft- und Raumfahrt - Bleche aus Aluminium und Aluminiumlegierungen - Dicken 0,25 mm < a < 6 mm - Maße

Série aérospatiale - Tôles en aluminium et alliages d'aluminium - Épaisseurs 0,25 mm < a < 6 mm - Dimensions

Ta slovenski standard je istoveten z: **EN 2071:2001**

ICS:

49.025.20	Aluminij	Aluminium

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EUROPEAN STANDARD

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EN 2071

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English version

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

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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of an identical text or by endorsement, at the latest by June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

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:

Sheets
in aluminium and aluminium alloys
Thickness 0,25 mm $\leq a \leq$ 6 mm

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 3848 Aerospace series – Semi-finished metallic products – Method of measuring form deviations

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

3 Form

See figure 1.

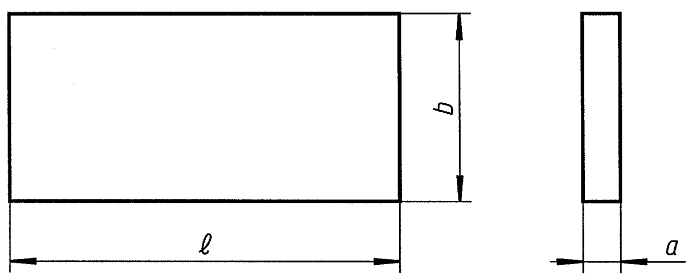

Figure 1

4 Recommended dimensions and mass

See table 1.

Table 1

Nominal ***a*** mm	**Typical format** ***b*** × ℓ mm × mm	**Maximum width** ***b*** mm	**Maximum length** ℓ mm	**Mass per unit area** [a] kg/m^2
0,25	800 × 2 000 and 800 × 2 500	1 000	4 500	0,70
0,3	800 × 2 000 and 800 × 2 500	1 000	4 500	0,84
0,4	1 000 × 2 000 and 1 250 × 2 500	1 250	4 500	1,12
0,5	1 000 × 2 000 and 1 250 × 2 500	1 250	4 500	1,40
0,6	1 000 × 2 000 and 1 250 × 2 500	1 400	5 000	1,68
0,8	1 000 × 2 000 and 1 250 × 2 500	1 400	5 000	2,24
1,0	1 000 × 2 000 and 1 250 × 2 500	1 600	6 000	2,80
1,2	1 000 × 2 000 and 1 250 × 2 500	1 600	6 000	3,36
1,4	1 000 × 2 000 and 1 250 × 2 500	1 600	6 000	3,92
1,6	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	4,48
1,8	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	5,04
2,0	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	5,60
2,5	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	7,00
3,0	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	8,40
3,2	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	8,96
4,0	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	11,20
5,0	1 000 × 2 000 and 1 250 × 2 500	2 000	10 000	14,00
6,0	1 000 × 2 000 and 1 250 × 2 500	2 200	10 000	16,80

[a] For information, calculated with a density of 2,8 kg/dm^3

5 Tolerances

5.1 Dimensional tolerances

5.1.1 Thickness

See table 2.

Measurements shall be taken at least 12 mm from the edge.

Table 2

Dimensions in millimetres

Thickness	Tolerances for width:				
	800 ≤ *b* ≤ 1 000	1 000 < *b* ≤ 1 250	1 250 < *b* ≤ 1 600	1 600 < *b* ≤ 2 000	2 000 < *b* ≤ 2 200
0,25 ≤ *a* ≤ 0,4	± 0,03	± 0,04	± 0,05	± 0,06	–
0,4 < *a* ≤ 0,6	± 0,04	± 0,04	± 0,06	± 0,07	–
0,6 < *a* ≤ 0,8	± 0,05	± 0,05	± 0,06	± 0,08	± 0,10
0,8 < *a* ≤ 1,2	± 0,05	± 0,06	± 0,06	± 0,09	± 0,12
1,2 < *a* ≤ 1,4	± 0,06	± 0,08	± 0,08	± 0,10	± 0,16
1,4 < *a* ≤ 1,6	± 0,07	± 0,10	± 0,10	± 0,12	± 0,16
1,6 < *a* ≤ 1,8	± 0,07	± 0,10	± 0,10	± 0,13	± 0,16
1,8 < *a* ≤ 2,5	± 0,08	± 0,10	± 0,10	± 0,14	± 0,18
2,5 < *a* ≤ 3,0	± 0,09	± 0,10	± 0,10	± 0,15	± 0,18
3,0 < *a* ≤ 3,2	± 0,10	± 0,13	± 0,13	± 0,18	± 0,20
3,2 < *a* ≤ 4,0	± 0,10	± 0,13	± 0,13	± 0,20	± 0,25
4,0 < *a* ≤ 5,0	± 0,12	± 0,16	± 0,18	± 0,23	± 0,30
5,0 < *a* < 6,0	± 0,16	± 0,20	± 0,23	± 0,28	± 0,35
a = 6,0	± 0,20	± 0,24	± 0,28	± 0,33	± 0,35

5.1.2 Width

See table 3.

Table 3

Dimensions in millimetres

Width	Tolerances for thickness:		
	0,25 ≤ *a* ≤ 1,5	1,5 < *a* ≤ 3,0	3,0 < *a* ≤ 6,0
800 ≤ *b* ≤ 1 250	+ 5 0	+ 6 0	+ 7 0
1 250 < *b* ≤ 1 600	+ 7 0	+ 8 0	+ 10 0
1 600 < *b* ≤ 2 200	+ 10 0	+ 10 0	+ 10 0

5.1.3 Length

See table 4.

Table 4

Dimensions in millimetres

Length	Tolerances for thickness: All
$\ell \leq$ 2 000	$^{+5}_{0}$
2 000 < $\ell \leq$ 5 000	$^{+10}_{0}$
5 000 < $\ell \leq$ 10 000	$^{+0,002 \times \ell}_{0}$

5.2 Geometric tolerances

5.2.1 Squareness

5.2.1.1 Method of measurement

See EN 3848.

5.2.1.2 Tolerances

See table 5.

Table 5

Dimensions in millimetres

Length	Maximum differences in the lengths of diagonals for all widths and thicknesses
$\ell \leq$ 2 000	5
2 000 < $\ell \leq$ 5 000	10
5 000 < $\ell \leq$ 10 000	0,002 × ℓ

5.2.2 Lateral curvature

5.2.2.1 Method of measurement and symbol

See EN 3848.

5.2.2.2 Tolerances

See table 6.

The lateral curvature may be concave or convex.