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IRISH STANDARD

I.S. EN 2045:2002

ICS 49.025.20

National Standards
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AEROSPACE SERIES - SQUARE BARS, DRAWN IN ALUMINIUM AND ALUMINIUM ALLOYS - TOLERANCE CLASS H 11 - THICKNESS 6 MM ≤ A ≤ 50 MM - DIMENSIONS

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2045

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English version

Aerospace series - Square bars, drawn in aluminuim and aluminium alloys - Tolerance class h 11 - Thickness 6 mm ≤ a ≤ 50 mm - Dimensions

Série aérospatiale - Barres carrées, étirées en aluminium et alliages d'aluminium - Classe de tolérance h 11 - Epaisseurs 6 mm ≤ a ≤ 50 mm - Dimensions

Luft- und Raumfahrt - Vierkantstangen, gezogen aus Aluminium und Aluminiumlegierungen - Toleranzklasse h 11 - Dicken 6 mm ≤ a ≤ 50 mm - Maße

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of an identical text or by endorsement, at the latest by June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.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

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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:

Square bars, drawn
in aluminium and aluminium alloys
Tolerance class h 11
Thickness 6 mm ≤ a ≤ 50 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.

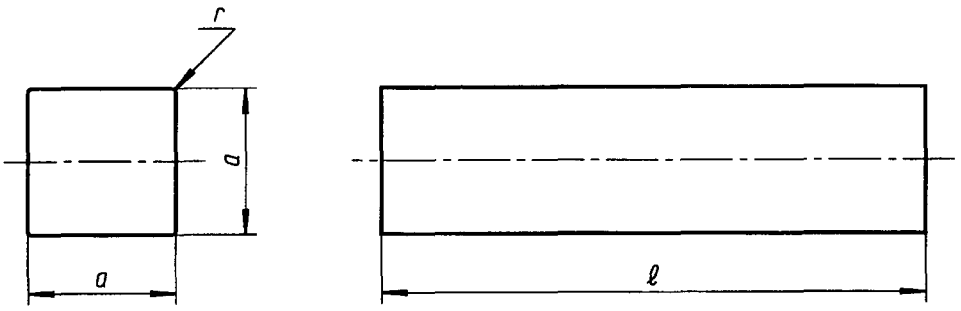

Figure 1

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4 Recommended dimensions and mass

4.1 Thickness and mass

See table 1.

Table 1

Nominal *a* mm	Linear mass [a] kg/m
6	0,10
8	0,18
10	0,28
12	0,40
14	0,55
15	0,63
17	0,81
20	1,1
22	1,4
25	1,7
30	2,5
31,5	2,8
32	2,9
40	4,5
50	7,0

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

4.2 Length

The order shall specify if bars are to be supplied in fixed or in random lengths. In the event of a supply of random lengths the minimum and maximum values for the lengths shall be specified on the order.

5 Tolerances

5.1 Dimensional tolerances

5.1.1 Thickness

See table 2.

Table 2

Dimensions in millimetres

Thickness	Tolerance class
$6 \leq a \leq 50$	h 11

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