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**Aerospace series - Round bars, extruded in aluminium and aluminium alloys -  
Diameter 10 mm < D < 220 mm - Dimensions**

Aerospace series - Round bars, extruded in aluminium and aluminium alloys - Diameter  
10 mm < D < 220 mm - Dimensions

Luft- und Raumfahrt - Rundstangen, gepresst aus Aluminium und Aluminiumlegierungen  
- Durchmesser 10 mm < D < 220 mm - Maße

Série aérospatiale - Barres rondes, filées en aluminium et alliages d'aluminium -  
Diamètres 10 mm < D < 220 mm - Dimensions

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**Ta slovenski standard je istoveten z: EN 2134:2001**

**ICS:**

49.025.20      Aluminij      Aluminium

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2134**

December 2001

ICS 49.025.20

English version

**Aerospace series - Round bars, extruded in aluminium and  
aluminium alloys - Diameter  $10 \text{ mm} \leq D \leq 220 \text{ mm}$  - Dimensions**

Série aérospatiale - Barres rondes, filées en aluminium et  
alliages d'aluminium - Diamètres  $10 \text{ mm} \leq D \leq 220 \text{ mm}$  -  
Dimensions

Luft- und Raumfahrt - Rundstangen, gepreßt aus  
Aluminium und Aluminiumlegierungen - Durchmesser  $10$   
 $\text{mm} \leq D \leq 220 \text{ mm}$  - 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 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:

Round bars, extruded  
in aluminium and aluminium alloys  
Diameter  $10 \text{ mm} \leq D \leq 220 \text{ mm}$

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.

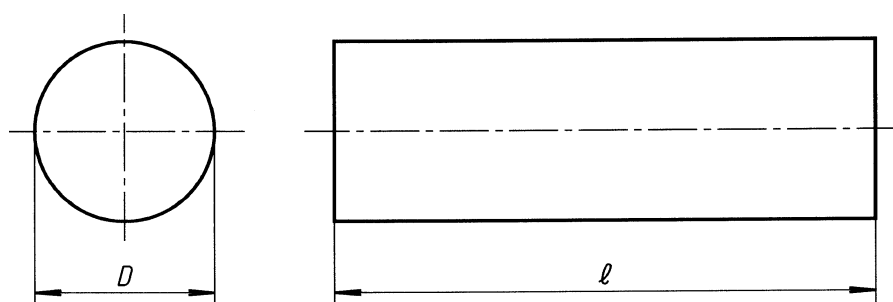


Figure 1

## 4 Recommended dimensions and mass

### 4.1 Diameter and mass

See table 1.

Table 1

Nominal <i>D</i> mm	Linear mass <sup>a</sup> kg/m	Nominal <i>D</i> mm	Linear mass <sup>a</sup> kg/m
10	0,22	55	6,7
11	0,26	56	6,9
12	0,32	60	7,91
13	0,37	63	8,7
14	0,43	65	9,3
15	0,49	70	10,8
16	0,56	71	11
18	0,71	72	11,4
20	0,88	75	12,4
22	1,06	80	14
22,4	1,1	85	15,9
24	1,2	90	17,8
25	1,4	95	19,9
26	1,5	100	22
28	1,7	105	24,2
30	2	110	26,6
32	2,3	112	27,6
34	2,5	120	31,7
35,5	2,8	125	34,4
36	2,8	130	37,2
38	3,2	140	43,1
40	3,5	150	49,5
42	3,9	160	52,3
45	4,5	180	71,3
48	5	200	88
50	5,5	220	106,5

<sup>a</sup> For information, calculated with a density of 2,8 kg/dm<sup>3</sup>

## 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 Diameter

See table 2.

**Table 2**

Dimensions in millimetres

Nominal $D$	Tolerances
$10 \leq D \leq 30$	$\pm 0,30$
$30 < D \leq 50$	$\pm 0,40$
$50 < D \leq 60$	$\pm 0,50$
$60 < D \leq 80$	$\pm 0,60$
$80 < D \leq 100$	$\pm 0,75$
$100 < D \leq 120$	$\pm 0,90$
$120 < D \leq 150$	$\pm 1,05$
$150 < D \leq 180$	$\pm 1,40$
$180 < D \leq 220$	$\pm 1,70$

#### 5.1.2 Length

See table 3, only applicable to bars supplied in fixed lengths.

**Table 3**

Dimensions in millimetres

Length	Tolerances
$l \leq 6\,000$	+ 6 0
$l > 6\,000$	+ 10 0

## 5.2 Geometric tolerances

### 5.1.1 Straightness

#### 5.2.1.1 Method of measurement and symbols

See EN 3848.

EN 2134:2001 (E)

**5.2.1.2 Tolerances**

See table 4.

**Table 4**

Dimensions in millimetres

Nominal $D$	Straightness deviation:	
	$Y_1$ per metre	$Y_2$ on any length $X_2^a$
$10 \leq D \leq 80$	$\leq 2$	$\leq 0,0025$
$80 < D \leq 120$	$\leq 2$	$\leq 0,0035$
$120 < D \leq 200$	$\leq 3$	$\leq 0,005$
$200 < D \leq 220$	$\leq 5$	$\leq 0,01$
<sup>a</sup> $X_2 = 400$		

**5.2.2 Roundness****5.2.2.1 Method of measurement**

See EN 3848.

**5.2.2.2 Tolerances**

See table 5.

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**Table 5**

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Dimensions in millimetres

Nominal $D$	Roundness deviation
$10 \leq D \leq 30$	$\leq 0,30$
$30 < D \leq 50$	$\leq 0,40$
$50 < D \leq 60$	$\leq 0,50$
$60 < D \leq 80$	$\leq 0,60$
$80 < D \leq 100$	$\leq 0,75$
$100 < D \leq 120$	$\leq 0,90$
$120 < D \leq 150$	$\leq 1,05$
$150 < D \leq 180$	$\leq 1,40$
$180 < D \leq 220$	$\leq 1,70$