

BS EN 2033:2017



BSI Standards Publication

**Aerospace series — Strips, cold
rolled in steel, Thickness 0,1 mm
 $\leq a \leq 2,5$ mm — Dimensions**

National foreword

This British Standard is the UK implementation of EN 2033:2017.

The UK participation in its preparation was entrusted to Technical Committee ACE/61, Metallic materials for aerospace purposes.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EUROPEAN STANDARD

EN 2033

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 49.025.10

English Version

**Aerospace series - Strips, cold rolled in steel, Thickness 0,1
mm $\leq a \leq 2,5$ mm - Dimensions**

Série aéronautique - Bandes, laminées à froid en acier,
Épaisseurs 0,1 mm $\leq a \leq 2,5$ mm - Dimensions

Luft- und Raumfahrt - Bänder, kaltgewalzt aus Stahl,
Dicken 0,1 mm $\leq a \leq 2,5$ mm - Maße

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European foreword

This document (EN 2033:2017) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries 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 ASD, 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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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Introduction

This European 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 European Standard specifies the dimensions and tolerances of:

Strips, cold rolled

in steel

Thickness $0,1 \text{ mm} \leq a \leq 2,5 \text{ mm}$

for aerospace applications.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Form

See Figure 1.

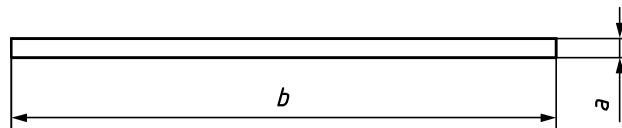


Figure 1 — Form

4 Recommended dimensions and mass

See Table 1.

Table 1

Nominal <i>a</i> mm	Mass per unit area ^a kg/m ²
0,1	0,8
0,2	1,6
0,3	2,4
0,4	3,1
0,5	3,9
0,6	4,7
0,7	5,5
0,8	6,3
0,9	7,1
1,0	7,9
1,2	9,4
1,4	11,0
1,6	12,6
1,8	14,1
2,0	15,7
2,5	19,6

^a For information, calculated with a density of 7,85 kg/dm³.

5 Dimensional tolerances

5.1 Thickness

See Table 2.

Measurements shall be taken on the centre line.

Table 2

Dimensions in millimetres

Thickness	Tolerances for width:		
	$b \leq 125$	$125 < b \leq 250$	$250 < b \leq 600$
$a = 0,1$	$\pm 0,01$	-	-
$0,1 < a \leq 0,3$	$\pm 0,02$	-	-
$0,3 < a \leq 0,4$	$\pm 0,03$	$\pm 0,03$	$\pm 0,03$
$0,4 < a \leq 0,5$	$\pm 0,03$	$\pm 0,03$	$\pm 0,04$
$0,5 < a \leq 0,6$	$\pm 0,03$	$\pm 0,04$	$\pm 0,04$
$0,6 < a \leq 0,8$	$\pm 0,04$	$\pm 0,05$	$\pm 0,05$
$0,8 < a \leq 1,0$	$\pm 0,14$	$\pm 0,05$	$\pm 0,06$
$1,0 < a \leq 1,4$	-	$\pm 0,06$	$\pm 0,07$
$1,4 < a \leq 2,0$	-	$\pm 0,07$	$\pm 0,08$
$2,0 < a \leq 2,5$	-	$\pm 0,08$	$\pm 0,09$

5.2 Width

See Table 3.

Table 3

Dimensions in millimetres

Width	Tolerances for thickness:			
	$0,1 \leq a \leq 0,3$	$0,3 < a \leq 1,0$	$1,0 < a \leq 1,6$	$1,6 < a \leq 2,5$
$b \leq 125$	+0,4 0	+0,4 0	-	-
$125 < b \leq 250$	-	+0,6 0	+0,7 0	+0,8 0
$250 < b \leq 400$	-	+0,8 0	+0,9 0	+1,0 0
$400 < b \leq 600$	-	+1,0 0	+1,2 0	+1,4 0

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