



BSI Standards Publication

## **Aerospace series - U-section aluminium alloy folded profiles - Dimensions**

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EUROPEAN STANDARD

**EN 2053**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

## Aerospace series - U-section aluminium alloy folded profiles - Dimensions

Série aérospatiale - Profilés pliés et formés en U en alliages d'aluminium - Dimensions

Luft- und Raumfahrt - U-Profile aus Aluminiumlegierungen, gebogen - Abmessungen

This European Standard was approved by CEN on 14 May 2017.

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## European foreword

This document (EN 2053:2017) 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of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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## 1 Scope

This European Standard specifies the dimensions and physical constants of U-section aluminium alloy folded profiles used in aerospace construction.

## 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 2127, *Aerospace series — Aluminium alloy — AL-P7075- — T73511 — Extruded bars and sections a or D ≤ 100 mm*

## 3 Materials

The materials are defined in the material standards and technical specification.

## 4 Required characteristics

The dimensions, cross sectional areas and linear mass are defined in Figure 1 and Table 1.

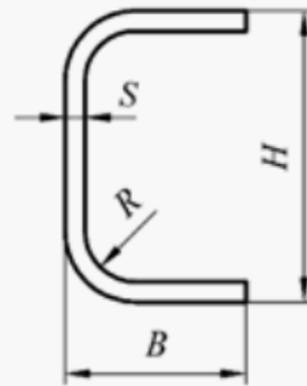


Figure 1

**Table 1 — Dimensions, cross sectional areas and linear mass**

Dimensions in millimetres

Dimensional code	B	H	R	S	Cross sectional area mm <sup>2</sup>	Linear mass <sup>a</sup> kg/m ≈	Dimensional code	B	H	R	S	Cross sectional area mm <sup>2</sup>	Linear mass <sup>a</sup> kg/m ≈
AA	10	16	1,6	0,6	20	0,055	BK	20	32	2,5	1	67	0,187
AB	12		2,5	0,8	28	0,080	BL			4	1,2	78	0,218
AC	16			0,8	35	0,098	BM			4	1,6	102	0,286
AD			1	43	0,120	BN	4			1,2	90	0,252	
AE	10	20	1,6	0,6	22	0,062	BP	25	40	1,6	118	0,330	
AF			2,5	0,8	28	0,080	BQ			5	2	144	0,402
AG	12		1,6	0,6	24	0,068	BR	12		2,5	0,8	48	0,133
AH			0,8	32	0,089	BS	1				59	0,165	
AJ		2,5	1	39	0,109	BT	16	2,5	0,8		54	0,151	
AK	16	0,8	38	0,107	BU	1			67	0,187			
AL		2,5	1	47	0,131	BV	4	1,2	78	0,218			
AM		4	1,2	54	0,151	BW	20	2,5	1	75	0,210		
AN	20	2,5	1	55	0,153	BY			4	1,2	88	0,245	
AP		4	1,2	64	0,178	BZ	4	1,6	115	0,322			
AQ			1,6	83	0,232	CA			1,2	100	0,280		
AR	12	25	1,6	0,6	27	0,077	CB	25	50	1,6	131	0,366	
AS			0,8	36	0,100	CC	5			2	160	0,447	
AT			2,5	1	44	0,123	CD	16		2,5	1	77	0,215
AU	0,8		42	0,118	CE	4	1,2				90	0,252	
AV	16	1	52	0,145	CF			4	1,6	118	0,331		
AW		4	1,2	60	0,168	CG	20			4	1,2	100	0,280
AY	20	2,5	1	60	0,168	CH		25	5		1,6	131	0,336
AZ		4	1,2	70	0,195	CJ	4			2	160	0,447	
BA			1,6	91	0,254	CK		4			1,6	147	0,411
BB	25	4	1,2	82	0,228	CL	25	5	2	180	0,503		
BC			1,6	107	0,299	CM			6	2,5	234	0,656	
BD		5	2	130	0,363	CN	25		63	4	1,6	168	0,470
BE	12	2,5	0,8	41	0,116	CP		5		2	206	0,576	
BF			1	51	0,142	CQ	6	2,5		251	0,703		
BG	16	2,5	0,8	48	0,133	CR	32	4		1,6	188	0,527	
BH			1	59	0,165	CS			5	2	234	0,654	
BJ		4	1,2	68	0,192	CT	6		2,5	286	0,801		

<sup>a</sup> Calculated on the basis of 2,8 kg/dm<sup>3</sup>.

## 5 Designation

The designation of products defined in this standard may include the following elements:

- a) name;
- b) number of this dimensional standard;
- c) dimensions;
- d) number of material standard.

EXAMPLE

**SECTION EN2053 – 25 × 16 × 1,2 EN2127**

NOTE When the designation is to be codified, dimensions shall be replaced by the code letters in Table 1 of this standard.

## 6 Marking

Marking of the semi-finished products defined in this standard shall comply with the requirements of the technical specification.

## Bibliography

- [1] EN 2065, *Folded profiles aluminium alloys — General tolerances — Aerospace series* <sup>1)</sup>
- [2] EN 2070-2, *Aerospace series — Aluminium and aluminium alloy wrought products — Technical specification — Part 2: Sheet, strip, formed profiles and plate*

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1) Published as ASD-STAN Standard at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN) ([www.asd-stan.org](http://www.asd-stan.org))





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