



SLOVENSKI STANDARD
SIST EN 2146:2001
01-januar-2001

Aerospace series - Rivets, solid, universal head, in aluminium alloy 2017A, inch based series

Aerospace series - Rivets, solid, universal head, in aluminium alloy 2017A, inch based series

Luft- und Raumfahrt - Vollniete, mit Universalkopf, aus Aluminiumlegierung 2017A, Inch-Reihe

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Série aérospatiale - Rivets ordinaires, a tête ronde aplatie, en alliage d'aluminium 2017A, série base inches

[SIST EN 2146:2001](https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001)

[https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-](https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001)

[976690d13596/sist-en-2146-2001](https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001)

Ta slovenski standard je istoveten z: EN 2146:1992

ICS:

49.025.20	Aluminij	Aluminium
49.030.60	Kovice	Rivets

SIST EN 2146:2001

en

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EUROPEAN STANDARD

EN 2146:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1992

UDC 621.884.2-034.715:629.7

Descriptors: Aircraft industry, full rivet, round head rivet, aluminium alloy, dimension, designation, marking

English version

Aerospace series - Rivets, solid, universal head, in aluminium alloy 2017A, inch based series

Série aéronautique - Rivets ordinaires, à tête
ronde aplatie, en alliage d'aluminium 2017A,
série base inches

Luft- und Raumfahrt - Vollniete, mit
Universalkopf, aus Aluminiumlegierung 2017A,
Inch-Reihe

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[SIST EN 2146:2001](https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001)

<https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001>

This European Standard was approved by CEN on 1992-11-16. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: 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 successively 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 May 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard :

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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EUROPEAN UNION OF STANDARDS

1 Scope

This standard specifies the characteristics of solid rivets, with universal head, inch based series, in aluminium alloy, for maximum operating temperature 120 °C.

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 2000, Aerospace series - Quality assurance - EN aerospace products - Approval of the quality system of manufacturers

EN 2116, Aerospace series - Aluminium alloy 2017A-H13 wire for solid rivets $D \leq 10$ mm ¹⁾

EN 2345, Aluminium and aluminium alloy rivets - Technical specification - Aerospace series ¹⁾

EN 2424, Aerospace series - Identification marking of standard fasteners ¹⁾

3 Required characteristics

3.1 Configuration - Dimensions - Masses

See figure 1 and tables 1 and 2. Dimensions and tolerances are expressed in millimetres.

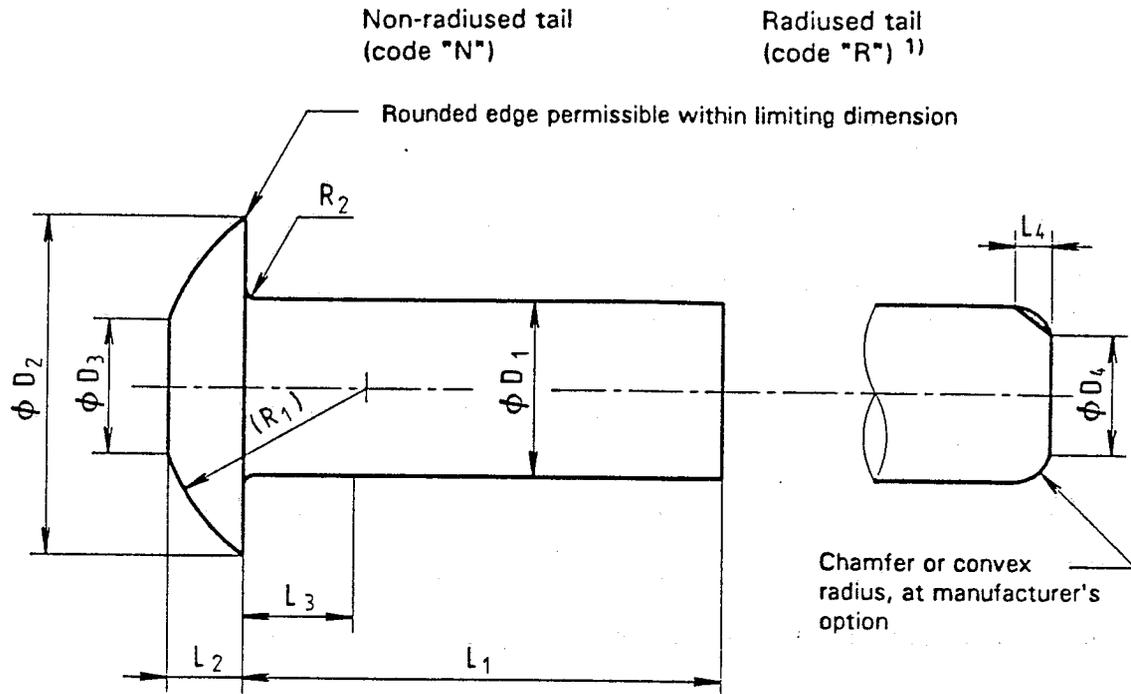
3.2 Material

EN 2116

<https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001>

The rivet shall be delivered in T4 condition.

¹⁾ Published as AECMA standard at the date of publication of the present standard



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1) The length range is limited (see table 2)

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Figure 1

<https://standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001>

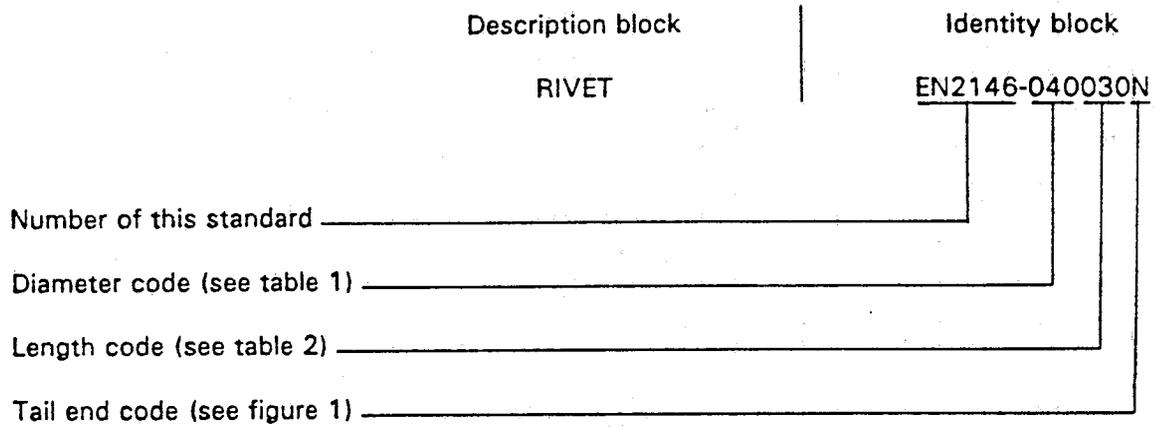
Table 1

Diameter code	D_1 ¹⁾		D_2		D_3		D_4		L_2 + 0,2 0	L_3	L_4		R_1	R_2 ± 0,08
	max.	min.	max.	min.	max.	min.	max.	min.			max.	min.		
024	2,45	2,35	5	4,5	2,4	1,8	1,9	1,6	1	1,45	0,8	0,5	2,9	0,15
032	3,25	3,15	6,7	6	3,2	2,4	2,6	2,3	1,4		1	0,7	3,9	
040	4,05	3,94	8,3	7,5	4	3	3,2	2,8	1,7	1,95	1,2	0,8	4,9	0,25
048	4,85	4,73	10	9	4,8	3,6	3,8	3,3	2		1,5	1	5,9	
056	5,65	5,53	11,7	10,5	5,6	4,2	4,5	3,9	2,4		1,8	1,2	6,8	
064	6,45	6,33	13,3	12,1	6,4	4,8	5,1	4,5	2,7		2,1	1,4	7,8	
080	8,03	7,9	16,7	15,1	8	6	6,4	5,6	3,4		2,4	1,6	9,8	
096	9,63	9,5	20	18,1	9,6	7,2	7,7	6,7	4,1	3	2	11,7		

1) D_1 max. may increase by 0,03, over length L_3 .

4 Designation

Example:



Note: If necessary, the originator code I9005 shall be placed between the description block and the identity block.

5 Marking

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5.1 Rivet identification

EN 2424, style G

SIST EN 2146:2001

5.2 Material identification standards.iteh.ai/catalog/standards/sist/853102c5-83d0-4915-a2ea-976690d13596/sist-en-2146-2001

See figure 2 and table 3.
Symbol at manufacturer's option

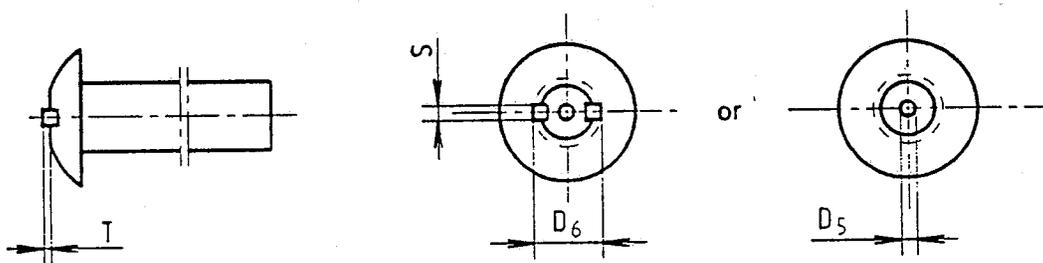


Figure 2

Table 3

Diameter code	024	032	040	048	056	064	080	096
T ± 0,05	0,13		0,15			0,2		
S max.	0,8							
D ₅ max.								
D ₆ max.	= D ₁ max. (see table 1)							