

SLOVENSKI STANDARD

SIST EN 4084:2010

01-januar-2010

Aeronavtika - Zakovne matice, samovarovalne, fiksne, dvostranske, z izvrtino za valjaste vijke, iz legiranega jekla, kadmirane, mazane z MoS₂ - Klasifikacija: 1100 MPa (pri temperaturi okolice)/235 °C

Aerospace series - Nuts, anchor, self-locking, fixed, two lug, with counterbore, in alloy steel, cadmium plated, MoS₂ lubricated - Classification: 1100 MPa (at ambient temperature)/235 °C

iTeh STANDARD PREVIEW

Luft- und Raumfahrt - Anniemettern, selbstsichernd, beiderseitiger Flansch mit zylindrischer Aussenkung aus legiertem Stahl, verkadmet, MoS₂-geschmiert - Klasse: 1100 MPa (bei Raumtemperatur) / 235 °C

[SIST EN 4084:2010](#)

<https://standards.iteh.ai/catalog/standards/sist/641ede16-c198-4769-932a-94002000000000000000000000000000>

Série aérospatiale - Écrous à river, à freinage interne, fixes, double patte, avec chambrage, en acier allié, cadmiés, lubrifiés MoS₂ - Classification: 1100 MPa (à température ambiante)/235 °C

Ta slovenski standard je istoveten z: EN 4084:2009

ICS:

49.030.30 Matrice Nuts

SIST EN 4084:2010 en

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN 4084:2010

<https://standards.iteh.ai/catalog/standards/sist/641ede16-c198-4769-932a-c9c4e81a2fc2/sist-en-4084-2010>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4084

November 2009

ICS 49.030.30

English Version

Aerospace series - Nuts, anchor, self-locking, fixed, two lug, with counterbore, in alloy steel, cadmium plated, MoS₂ lubricated - Classification: 1 100 MPa (at ambient temperature) / 235 °C

Série aérospatiale - Écrous à river, à freinage interne, fixes, double patte, avec chambrage, en acier, cadmiers, lubrifiés MoS₂ - Classification: 1 100 MPa (à température ambiante)/235 °C

Luft- und Raumfahrt - Annietmuttern, selbstsichernd, beiderseitiger Flansch mit zylindrischer Aussenkung aus legiertem Stahl, verkadmet, MoS₂-geschmiert - Klasse: 1 100 MPa (bei Raumtemperatur) / 235 °C

This European Standard was approved by CEN on 15 September 2009.

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 CEN Management Centre or to any CEN member.

**The STANDARD PREVIEW
(standardpreview)**

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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.
<https://standards.cen.eu/catalog/standards/sist-en-4084-1/ed0-c1984769-932a-c9c4e81a2fc2/sist-en-4084-2010>



EUROPEAN COMMITTEE FOR STANDARDIZATION
 COMITÉ EUROPÉEN DE NORMALISATION
 EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Required characteristics	5
3.1 Configuration – Dimensions – Masses.....	5
3.2 Materials	5
3.3 Surface treatment	5
4 Designation	8
5 Marking	8
6 Technical specification	8

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN 4084:2010

<https://standards.iteh.ai/catalog/standards/sist/641ede16-c198-4769-932a-c9c4e81a2fc2/sist-en-4084-2010>

Foreword

This document (EN 4084:2009) 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 May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

The STANDARD PREVIEW (standards.iteh.ai)

SIST EN 4084:2010

<https://standards.iteh.ai/catalog/standards/sist/641ede16-c198-4769-932a-c9c4e81a2fc2/sist-en-4084-2010>

1 Scope

This European Standard specifies the characteristics of two lug fixed anchor nuts, with counterbore and a self-locking feature achieved by forming the upper portion out-of-round, in alloy steel, cadmium plated, MoS₂ lubricated.

Classification: 1 100 MPa ¹⁾ / 235 °C ²⁾.

2 Normative references

EN 2133, Aerospace series — Cadmium plating of steels with specified tensile strength ≤ 1450 MPa, copper, copper alloys and nickel alloys

EN 2424:2008, Aerospace series — Marking of aerospace products

EN 2491, Aerospace series — Molybdenum disulphide dry lubricants — Coating methods

EN 2542, Aerospace series — Steel FE-PL1502 (25CrMo4) — Annealed — Bar and wire — $D_e \leq 40 \text{ mm}$ — For prevailing torque nuts

EN 2543, Aerospace series — Steel FE-PL1502 (25CrMo4) — Annealed — Sheet and strip — $0,3 \text{ mm} \leq a \leq 2 \text{ mm}$ — For prevailing torque nuts

iTeh STANDARD PREVIEW

EN 9100, Quality Management Systems — Requirements for Aviation, Space and Defense Organizations

(standards.iteh.ai)

EN 9133, Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts

[SIST EN 4084:2010](#)

ISO 3223, Aerospace — Nuts, anchor, self-locking, fixed, two lug, with counterbore, with MJ threads, classifications: 1 100 MPa (at ambient temperature)/235 °C, 1 100 MPa (at ambient temperature)/315 °C and 1 100 MPa (at ambient temperature)/425 °C — Dimensions

ISO 5855-2, Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts

ISO 5858, Aerospace — Nuts, self-locking, with maximum operating temperature less than or equal to 425 °C — Procurement specification

ISO 8788, Aerospace — Nuts, metric — Tolerances of form and position

TR 3791, Aerospace series — Materials for self-locking nuts, threaded inserts and screw thread inserts of temperature classes ≤ 425 °C ³⁾

1) Corresponds to strength class of the associated bolt, the 100 % load of which it is able to withstand, when tested at ambient temperature, without breaking or cracking.

2) Maximum temperature that the nut can withstand without continuous change in its original characteristics, after return to ambient temperature. The maximum temperature is determined by the surface treatment.

3) Published as ASD-STAN Technical Report at the date of publication of this standard.

3 Required characteristics

3.1 Configuration – Dimensions – Masses

See Figure 1 and Table 1.

Dimensions and tolerances are in conformity with ISO 3223, expressed in millimetres and apply after cadmium plating but before MoS₂ lubrication.

Form and position tolerances shall be in conformity with ISO 8788 and those specified in Table 1.

3.2 Materials

EN 2542, EN 2543 or TR 3791.

3.3 Surface treatment

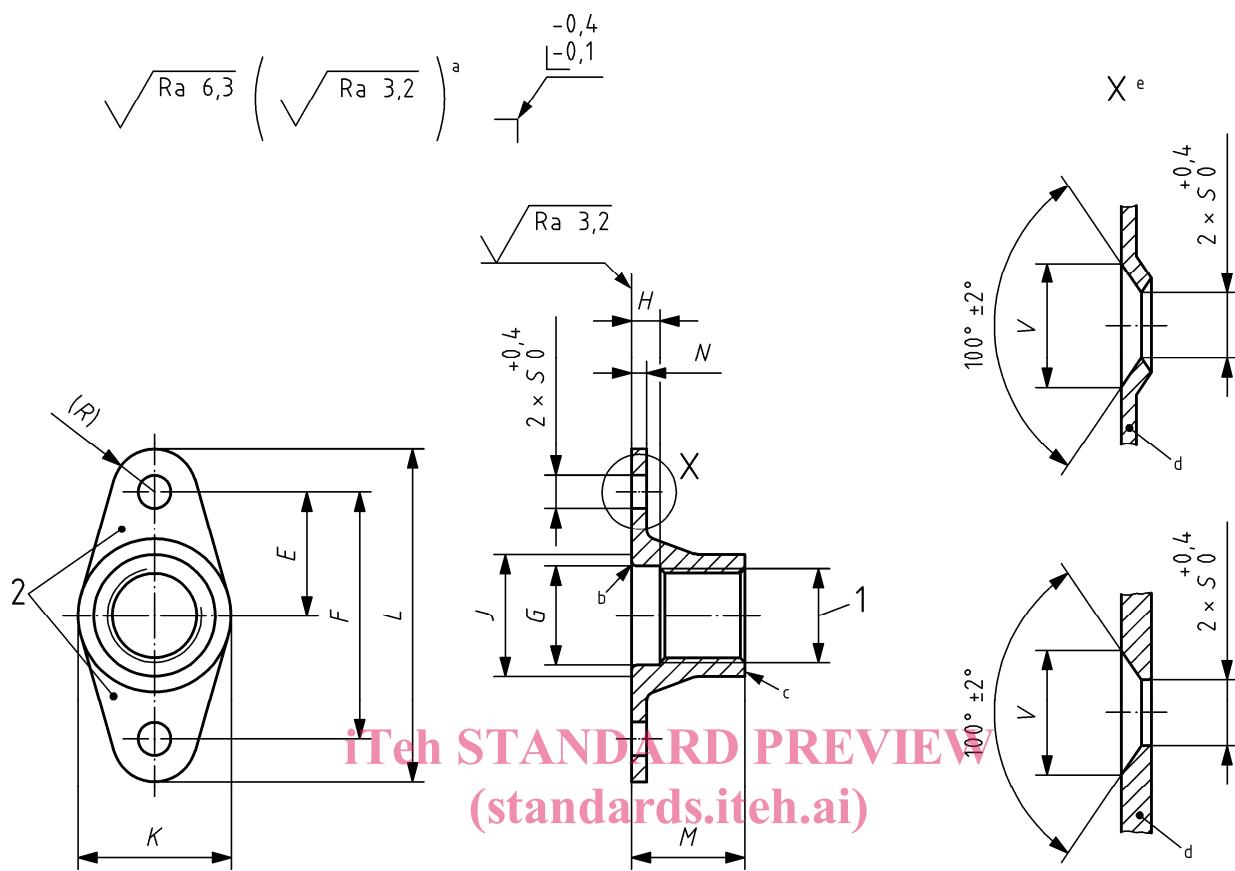
EN 2133, 5 µm minimum on threads and all surfaces which can be contacted by a 20 mm diameter ball. On all other surfaces a continuous deposit shall be present, plus EN 2491, thickness not specified.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 4084:2010

<https://standards.iteh.ai/catalog/standards/sist/641ede16-c198-4769-932a-c9c4e81a2fc2/sist-en-4084-2010>

Dimensions in millimetres

**Key**

- 1 Thread
- 2 Marking
- 3 Seating face
- a These values in micrometres apply before surface treatment. They do not apply to threads and sheared edges the surface texture of which will be as achieved by usual manufacturing methods.
- b Radius or chamfer
- c Form out-of-round in this area to achieve the self-locking. Tooling marks are permitted in this area.
- d Alternatives: countersunk rivet holes (when specified by purchaser) may be dimpled or cut countersunk (at manufacturer's option).
- e Section on X

Figure 1

Table 1

Diameter Code	Thread ^a	E	F	G min.	H min.	J ^b max.	K max.	L max.	M max.	N ^c max.	R	S	V	Mass kg/1 000 pieces approx.	
030	MJ3x0,5-4H6H	6	12	— ^d	— ^d	4,6	6	17,2	3,2		2,5			0,45	
040	MJ4x0,7-4H6H	8,5	17	4,4	2,2	6,2	8	23,2	5,8	1			4,8	1,15	
050	MJ5x0,8-4H6H	9,5	19	5,5	2,4	7,3	9	25,2	6,9		3	2,5		1,30	
060	MJ6x1-4H5H			6,5		8,7	10		8,1	1,2				2,10	
080	MJ8x1-4H5H	11	22		8,5		10,9	13		9,9	1,5	3,5	3	5,7	4,40
100	MJ10x1,25-4H5H	13	26	10,5	3	12,9	16,2	35,2	12	1,6	4,5	3,5	6,6	7,65	

^a In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.

^b Is to sharp corners (chamfered) or point of tangency (radiusied).

^c Is applicable at the rivet hole location.

^d Diameter code 030 does not have a counterbore.

iTeh STANDARD REVIEW (standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/641ede16-c198-4769-932a-c9c4e81a2fc2/sist-en-4084-2010>

SIST EN 4084:2010