SLOVENSKI STANDARD
SIST EN 3741:2005

01-junij-2005

Nadomeġļa:
SIST EN 3741:2004

Aerospace series - Nuts, clip, metric - Installation holes and assembly

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Luft- und Raumfahrt - Klemmmuttern, metrisch - Einbaulöcher und Montage

Série aérospatiale - Écrous a pincer, métriques - Trous d'installation et montage

Ta slovenski standard je istoveten z: EN 3741:2004

ICS:

49.030.30 Matice Nuts

SIST EN 3741:2005 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3741

November 2004

ICS 49.030.30

Supersedes EN 3741:2003

English version

Aerospace series - Nuts, clip, metric - Installation holes and assembly

Série aérospatiale - Écrous à pincer, métriques - Trous d'installation et montage

Luft- und Raumfahrt - Klemmuttern, metrisch - Einbaulöcher und Montage

This European Standard was approved by CEN on 11 September 2003.

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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 Central Secretariat has the same status as the official versions.

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

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Ref. No. EN 3741:2004: E

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Foreword

This document (EN 3741:2004) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 3741:2003.

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

1 Scope

This standard specifies the characteristics of the installation holes required for the utilization of clip nuts with design configuration to EN-Standards for aerospace applications.

2 Normative references

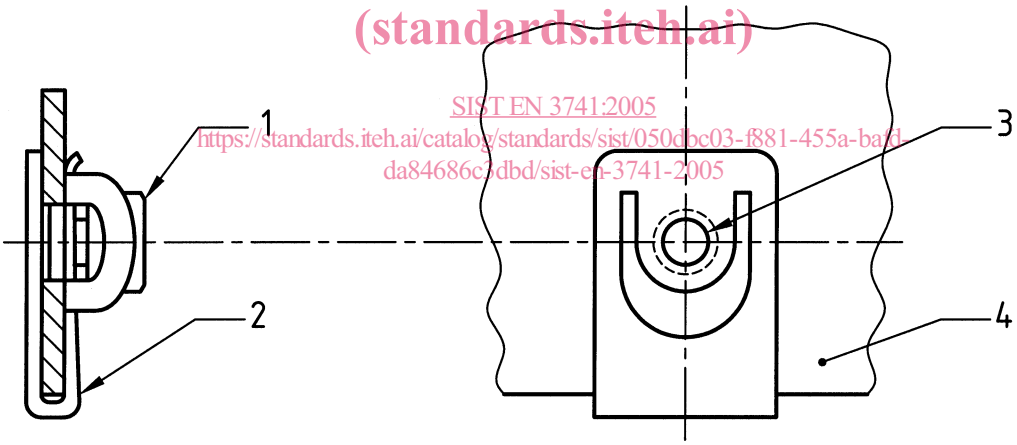
The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3726, *Aerospace series – Nuts, self-locking, clip, in heat resisting steel FE-PA2601 (A286), MoS_2 coated – Classification: 1 100 MPa (at ambient temperature) / 425 °C*

3 Principle

The self-locking clip nuts are parts held in place on their support by the elastic action of the nut cage. A centering piece located on the tab of the cage ensures the correct installation of the clip nut.

Self-locking is ensured by the distortion of the last nut end threads. See Figure 1.



Key

1 nut
2 cage
3 centering piece
4 support

Figure 1

4 Design instructions

4.1 Support design

4.1.1 Installation A: "on flank of support"

See Figures 2 and 3.

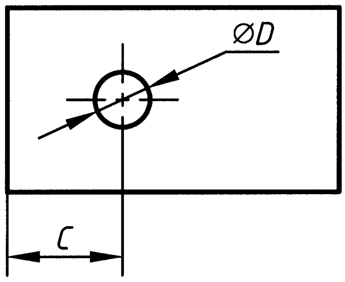


Figure 2

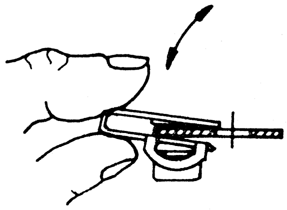
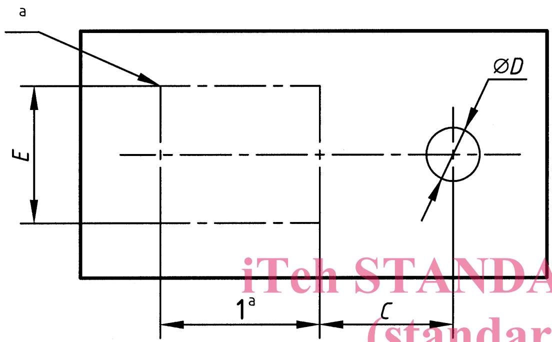


Figure 3

4.1.2 Installation B: "with slot"

See Figures 4 and 5.



Key

1 F_1 or F_2

[a] Minimum zone allowing the passage of the tabs depending of the mounting face (see Figure 5). All the shapes capable of enveloping this minimum zone are acceptable.

Figure 4

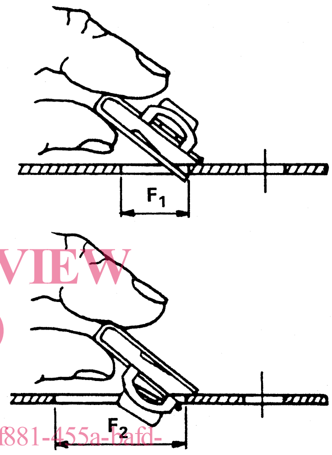


Figure 5

4.1.3 Dimensions

See Table 1.

Table 1

Dimensions in millimetres

Diameter code	Thread	*C*	*D*		*E*	F_1	F_2	Support thickness	
		± 0,25	max.	min.	min.	min.	min.	max.	min.
040	MJ4X0,7 – 4H6H		7,1	7	14		13		
050	MJ5X0,8 – 4H6H	9,5	7,5	7		6,5	14	2	0,9
060	MJ6X1 – 4H5H		9,1	8,6	19,5		16		

4.2 Type of installation

4.2.1 Installation A

— install the clip nut on the edge of the support;

— apply pressure on the cage as illustrated on Figure 3, until the centering piece clears the edge of the support;

— push the clip nut until the centering piece locates in the hole.

4.2.2 Installation B

In the case of assembly on inner panels:

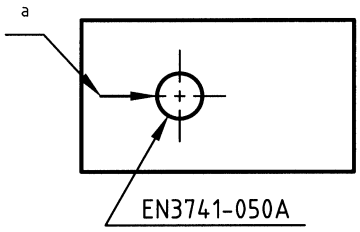
— slide the cage through the support access hole, as illustrated on Figure 5;

— proceed until the centering piece locates in the hole.

5 Indication on drawings

5.1 Definition drawing

EXAMPLE: see Figure 6.



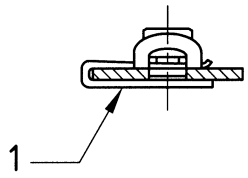
Key

[a] Way of assembly

Figure 6

5.2 Assembly drawing

EXAMPLE: see Figure 7.



Key

1 clip nut EN 3726-050 – Assembly EN 3741-050A

Figure 7