



**SLOVENSKI STANDARD**  
**SIST EN 3741:2004**

**01-maj-2004**

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

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

Ecrous a pincer, métrique - Trou d'installation

**Ta slovenski standard je istoveten z: EN 3741:2003**

[SIST EN 3741:2004](https://standards.iteh.ai/catalog/standards/sist/3d8893b5-b580-400d-84c7-ab8a74ea4fa4/sist-en-3741-2004)

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**ICS:**

49.030.30      Matice      Nuts

**SIST EN 3741:2004**      **en**

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EUROPEAN STANDARD

**EN 3741**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

ICS 49.030.30

English version

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

This European Standard was approved by CEN on 2 June 2002.

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 Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

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

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

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## Foreword

This document (EN 3741:2003) 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 July 2003, and conflicting national standards shall be withdrawn at the latest by July 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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### 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.

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### 2 Normative references

EN 3726 Aerospace series – Nuts, self-locking, clip, in heat resisting steel FE-PA92HT (A286), MoS<sub>2</sub> coated – Classification: 1 100 MPa (at ambient temperature) / 425 °C<sup>1)</sup>

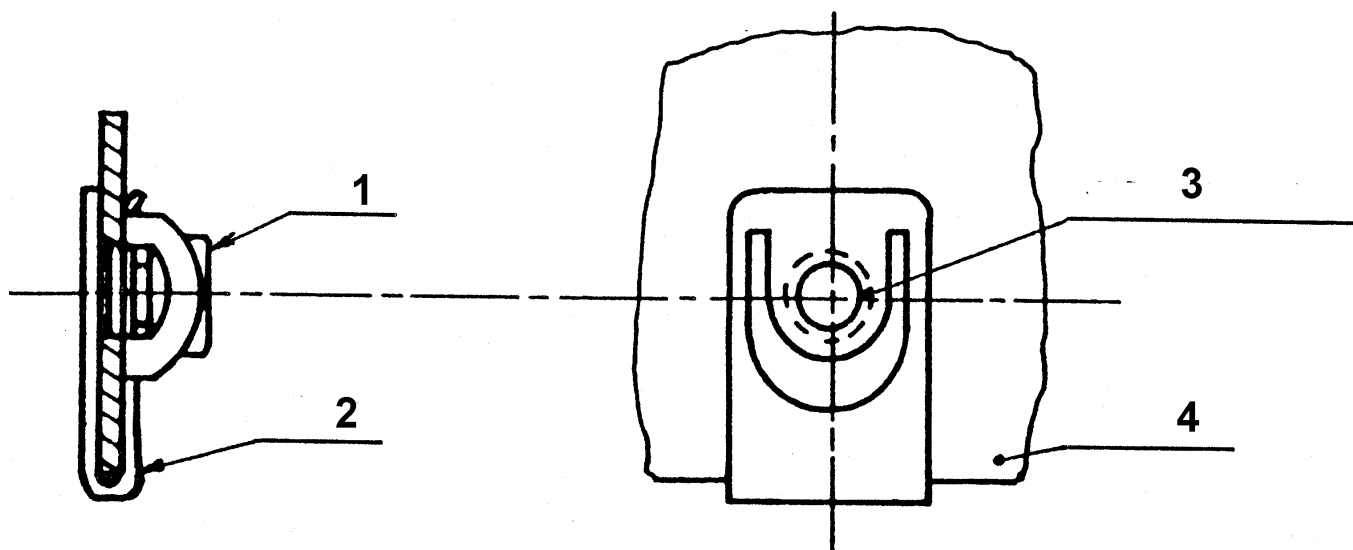
### 3 Principle

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.

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1) Published as AECMA Prestandard at the date of publication of this standard



### Key

- 1 Nut
- 2 Cage
- 3 Centering piece
- 4 Support

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Figure 1

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## 4 Design instructions

### 4.1 Support design

#### 4.1.1 Installation A : " on flank of support"

See figures 2 and 3.

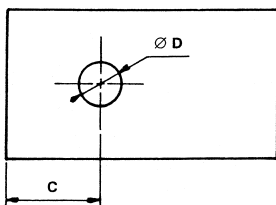


Figure 2

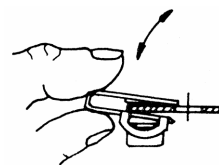
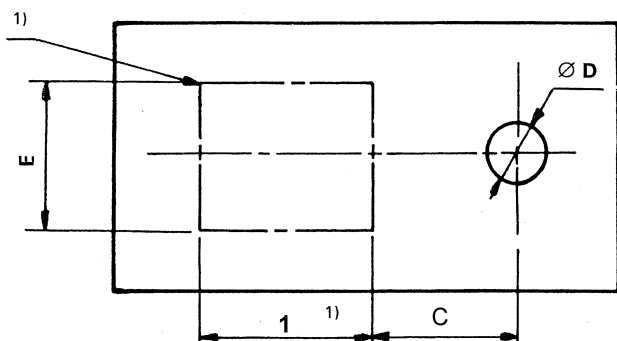


Figure 3

#### 4.1.2 Installation B : "with slot"

See figures 4 and 5.



#### Key

1)  $F_1$  or  $F_2$

1) 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

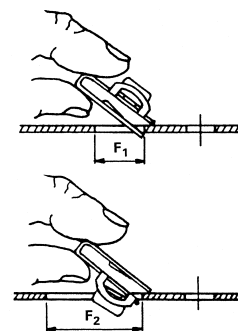


Figure 5

#### 4.1.3 Dimensions

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See table 1.

Table 1

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Dimensions in millimetres

Diameter code	Thread	C $\pm 0,25$	D min.	E min.	F <sub>1</sub> min.	F <sub>2</sub> <sup>1)</sup> min.	Support thickness	
							max.	min.
040	MJ4X0,7 – 4H6H	9,5	7	14	6,5	13	2	0,9
050	MJ5X0,8 – 4H6H		7,1			14		
060	MJ6X1 – 4H5H		7,5	19,5				
			8,6					
			9,1					

See figures 4 and 5.

## 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 b, until the centering piece clears the edge of the support ;
- push the clip nut until the centering piece locates in the hole.

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#### 4.2.2 Installation B

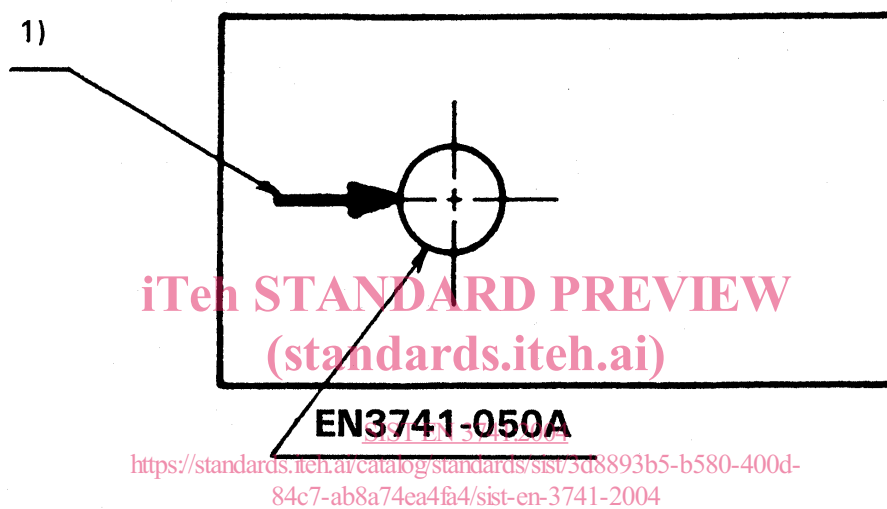
In the case of assembly on inner panels :

- 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

See example on figure 6.



1) way of assembly

Figure 6

#### 5.2 Assembly drawing

See example on figure 7.

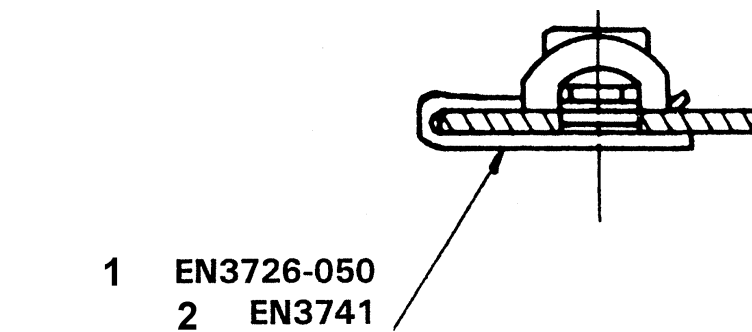


Figure 7