



SLOVENSKI STANDARD
SIST EN 3730:2002
01-januar-2002

Aerospace series - Clamps, saddle fixed and sliding version in aluminium alloy with rubber cushioning - Dimensions, masses

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Luft- und Raumfahrt - Schellen in Sattelform aus Aluminiumlegierung mit Profilgummi für feste und gleitende Rohhalterung - Maße, Massen

Série aérospatiale - Colliers du type "Oméga" avec serrage ou coulissants en alliage d'aluminium avec profilé en élastomère - Dimensions, masses

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Ta slovenski standard je istoveten z: EN 3730:2001

ICS:

49.025.20	Aluminij	Aluminium
49.080	Letalski in vesoljski hidravlični sistemi in deli	Aerospace fluid systems and components

SIST EN 3730:2002

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3730

September 2001

ICS 49.080

English version

Aerospace series - Clamps, saddle fixed and sliding version in aluminium alloy with rubber cushioning - Dimensions, masses

This European Standard was approved by CEN on 20 January 2001.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: 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 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 March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies the required characteristics of saddle clamps in aluminium alloy with various cushion materials.

These clamps, fixed version (type 1) or sliding version (type 2), are used for supporting pipe assemblies.

They are used up to 80 °C max. .

Usage at a higher temperature is at the option of the user.

For temperature range and environmental considerations see the various cushion material standards.

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 (including amendments).

EN 2000	Aerospace series – Quality assurance – EN aerospace products – Approval of the quality system of manufacturers
EN 2261	Aerospace series – Silicone rubber (VMQ) – Hardness 70 IRHD
EN 2424	Aerospace series – Marking of aerospace products
EN 2437	Aerospace series – Chromate conversion coatings (yellow) for aluminium and aluminium alloy
EN 2566	Aerospace series – Fluorocarbon rubber (FPM) – Hardness 70 IRHD ¹⁾
EN 2693	Aerospace series – Aluminium alloy AL-P5086- H 111 – Sheet and strip 0,3 mm ≤ a ≤ 6 mm
EN 3078	Aerospace series – P.Q and saddle clamps with rubber cushion – Technical specification ¹⁾
EN 3826	Aerospace series – Fluorosilicone rubber (FVMQ) – Hardness 70 IRHD ²⁾
EN 4115	Aerospace series – Cushion, rubber for clamps – Dimensions, masses

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

2) In preparation at the date of publication of this standard

EN 3730:2001 (E)

3 Required characteristics

3.1 Materials

According to table 1

Clamp: Aluminium alloy according to EN 2693

Cushion: according to EN 4115

Table 1 – Cushion materials

Cushion material code	Elastomer	Colour
S	Silicone VMQ EN 2261	rust
F	Fluorosilicone FVMQ EN 3826	blue
V	Fluorocarbon FPM EN 2566	brown

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3.2 Surface treatment

According to table 2

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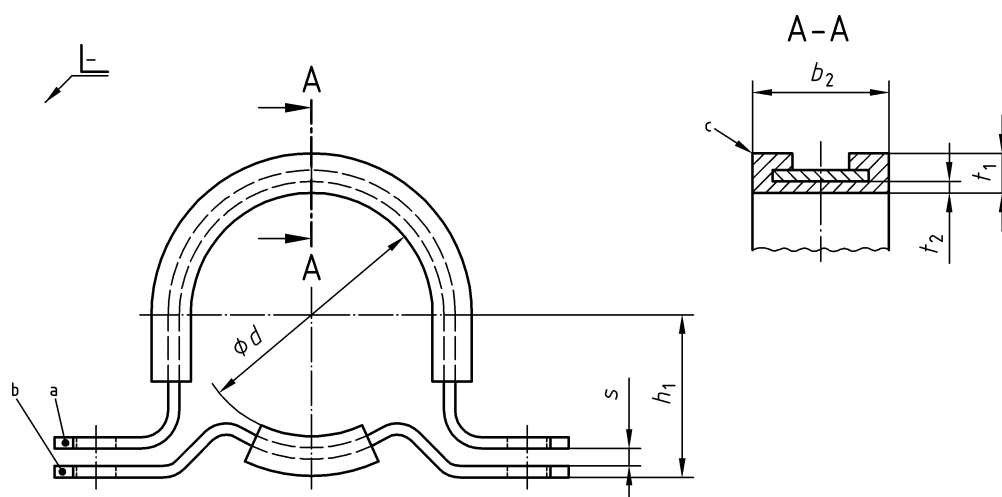
Table 2 – Surface treatment

Treatment	Code
None	0
Yellow chromating per EN 2437	1

3.3 Configuration – Dimensions – Masses

See figures 1 to 5 and tables 3 and 4

Dimensions are in millimetres.

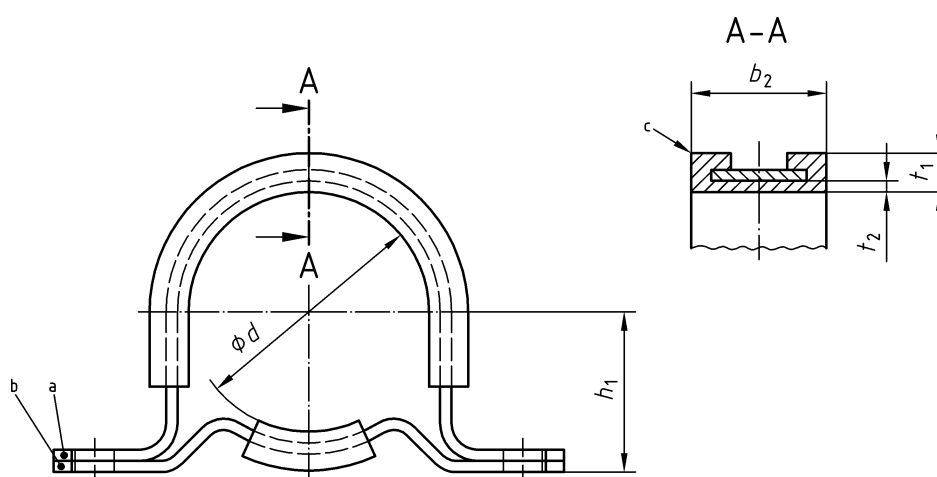


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- a Top half, form A (standards.iteh.ai)
- b Bottom half, form B
- c Rubber cushion according to EN 4115

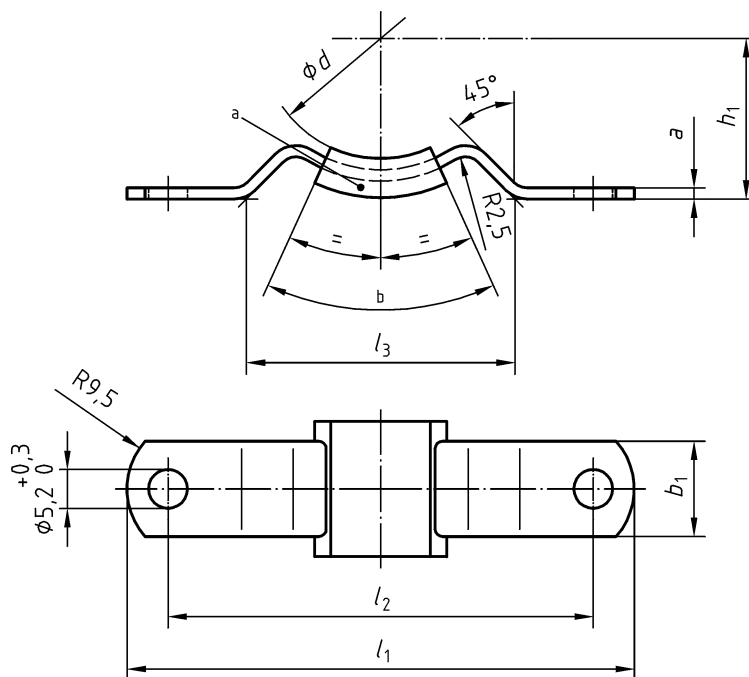
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Figure 1 – Configuration, complete clamp, type 1 (fixed version: code J)



- a Top half, form C
- b Bottom half, form B
- c Rubber cushion according to EN 4115

Figure 2 – Configuration, complete clamp, type 2 (sliding version: code K)



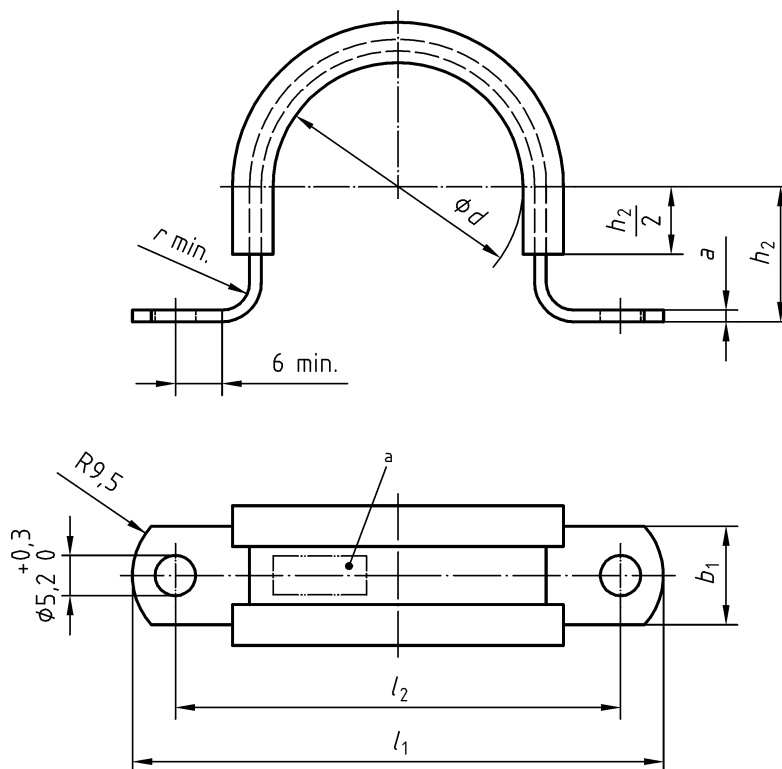
- a Area for marking
- b Length = $d/2$

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Figure 3 – Configuration, form B, clamp bottom half, common to types 1 and 2

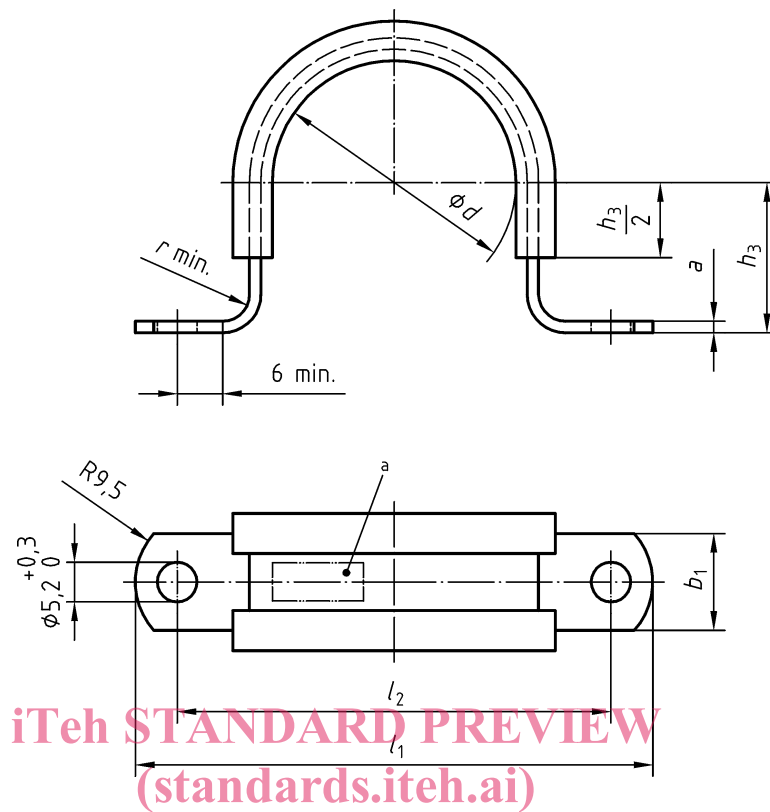
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- a Area for marking

Figure 4 – Configuration, form A, clamp top half, fixed version, type 1



a Area for marking

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Figure 5 – Configuration, form C, clamp top half, sliding version, type 2