SLOVENSKI STANDARD
SIST EN 3730:2009

01-november-2009

Nadomešča:
SIST EN 3730:2002

Aeronavtika - Objemke, sedlaste oblike, iz aluminijeve zlitine, z gumo za pritrditev cevi - Mere, mase

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

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

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

Ta slovenski standard je istoveten z: **EN 3730:2009**

ICS:

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

SIST EN 3730:2009 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3730

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ICS 49.080

Supersedes EN 3730:2001

English Version

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

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Contents

Page

Foreword 3
1 Scope 4
2 Normative references 4
3 Required characteristics 4
4 Designation 9
5 Marking 11
6 Technical specification 12

Foreword

This document (EN 3730:2009) 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of an identical text or by endorsement, at the latest by March 2010, and conflicting national standards shall be withdrawn at the latest by March 2010.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.

This document supersedes EN 3730:2001.

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.

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

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 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 alloys.*

EN 2566, *Aerospace series — Fluorocarbon rubber (FPM) — Hardness 70 IRHD.* [1)]

EN 2693, *Aerospace series — Aluminium alloy AL-P5086- — H111 — 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 3825, *Aerospace series — Fluorosilicone rubber (FVMQ) — Hardness 60 IRHD.* [1)]

EN 3826, *Aerospace series — Fluorosilicone rubber (FVMQ) — Hardness 70 IRHD.* [1)]

EN 4115, *Aerospace series — Cushion, rubber for clamps — Dimensions, masses.*

3 Required characteristics

3.1 Materials

According to Table 1.

Clamp: Aluminium alloy according to EN 2693.

Cushion: According to EN 4115.

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

Table 1 — Cushion materials

Cushion material code	Elastomer	Colour
S	Silicone VMQ EN 2261	Rust
F	Fluorosilicone FVMQ EN 3826 [a]	Blue
V	Fluorocarbon FPM EN 2566 [b]	Brown

[a] Alternative EN 3825.

[b] Alternative Fluorocarbon rubber (FPM) – Hardness 75 IRHD.

3.2 Surface treatment

According to Table 2.

Table 2 — Surface treatment

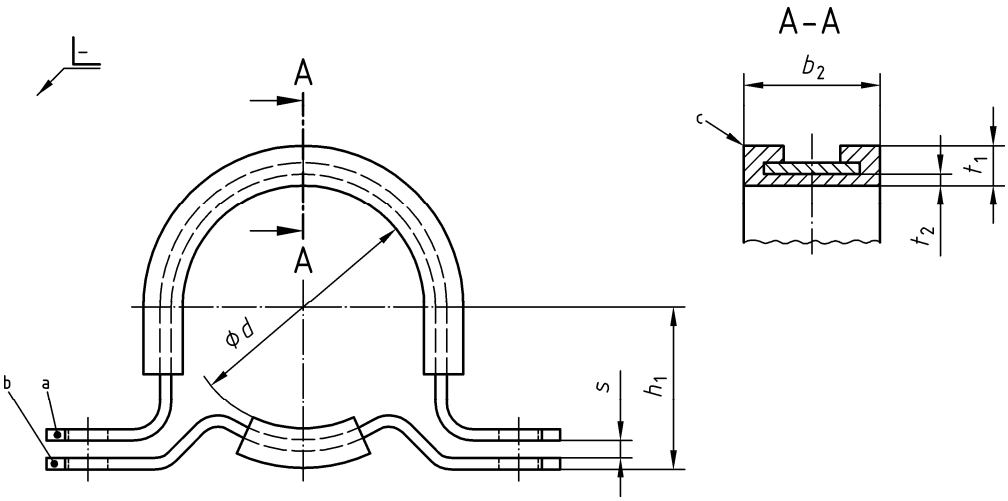
Treatment	Code
None	0
Yellow chromating per EN 2437	1

3.3 Configuration – Dimensions – Masses

See Figures 1 to 5 and Tables 3 and 4.

Dimensions are in millimetres.

Rubber cushion dimensions, see EN 4115.



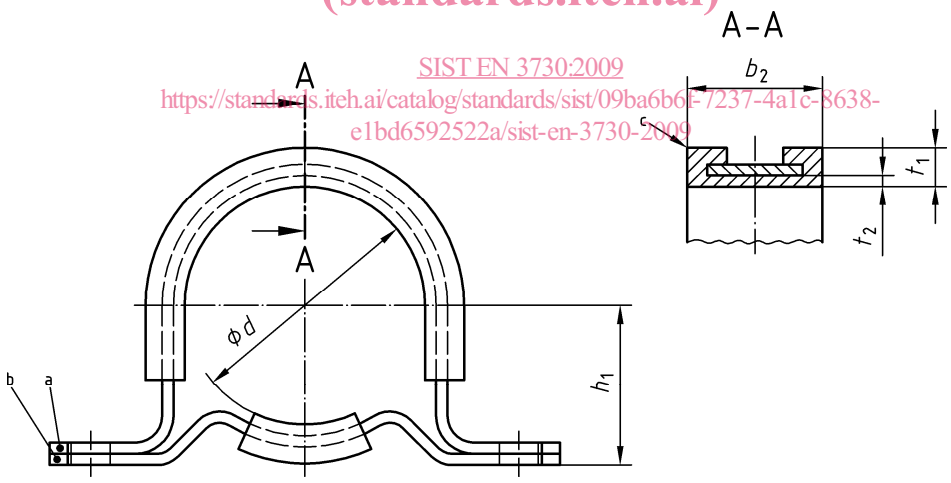
a Top half, form A

b Bottom half, form B

c Rubber cushion according to EN 4115

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

Rubber cushion dimensions, see EN 4115.

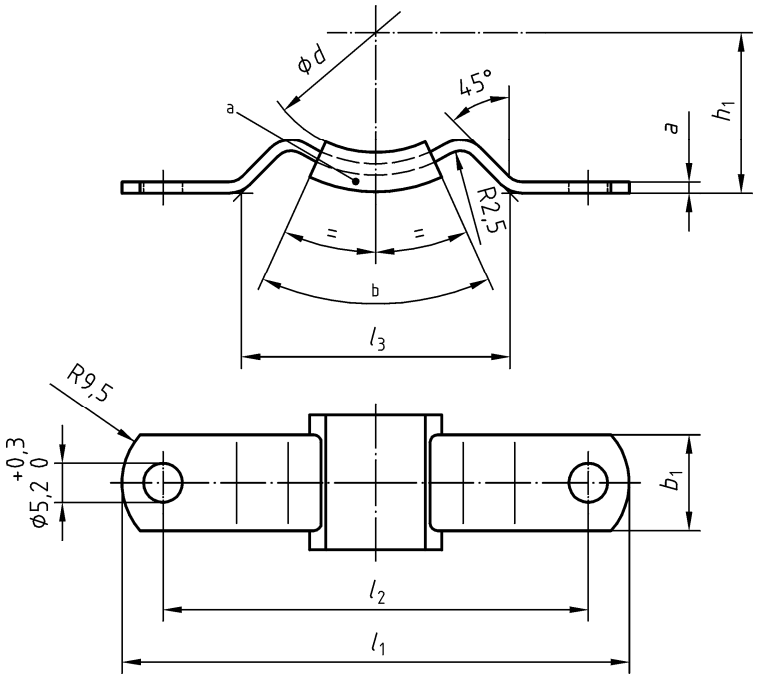


a Top half, form C

b Bottom half, form B

c Rubber cushion according to EN 4115

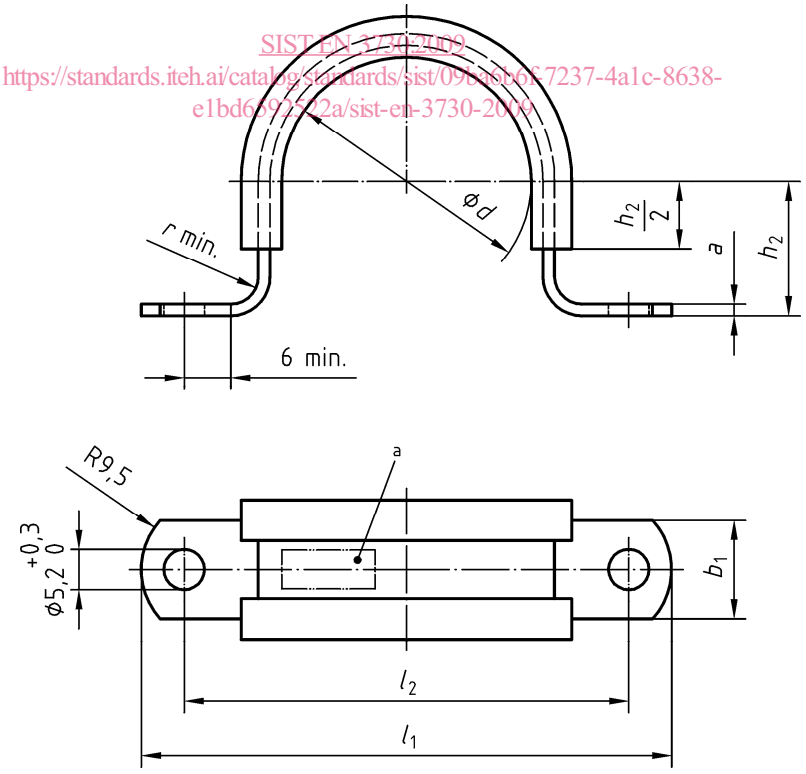
Figure 2 — Configuration, complete clamp, type 2 (sliding version: code K)



a Area for marking

b Length = $d/2$

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



a Area for marking

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