



SLOVENSKI STANDARD
SIST EN 4702-04:2018

01-januar-2018

Aeronavtika - Spončni sistemi za hitro sprostitvev za nestrukturno uporabo in notranje obloge - 04. del: Vzmetna objemka

Aerospace series - Quick release fastening systems for non-structural and lining applications - Part 04: Spring clamp

Luft- und Raumfahrt - Schnellverschlussysteme für nicht-strukturelle und Innenausstattungsanwendungen - Teil 04: Feder-Clip

Série aérospatiale - Fixations rapides filetéés applications structurales et non structurales et revêtements intérieurs - Partie 04: Collier lyre

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Ta slovenski standard je istoveten z: EN 4702-04:2017

ICS:

49.030.99 Drugi vezni elementi Other fasteners

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en,fr,de

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EUROPEAN STANDARD

EN 4702-04

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

ICS 49.035

English Version

Aerospace series - Quick release fastening systems for non-structural and lining applications - Part 04: Spring clamp

Série aérospatiale - Fixations rapides filetées applications structurales et non structurales et revêtements intérieurs - Partie 04: Collier lyre

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This European Standard was approved by CEN on 23 July 2017.

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-CENELEC Management Centre or to any CEN member.

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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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 4702-04:2017) 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 European 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 April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN 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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 4702-04:2017 (E)**1 Scope**

This standard describes the dimensions, mass, tolerances and static values of quick-release and locking – clamps for use in fuselage interior equipment and non-structural or secondary structural area.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2424, *Aerospace series - Marking of aerospace products*

EN 4710-01, *Aerospace series — Quick release fastening systems for non-structural applications — Part 01: Technical specification*

EN 10132-4, *Cold-rolled narrow steel strip for heat-treatment — Technical delivery conditions — Part 4: Spring steels and other applications*

EN 10151, *Stainless steel strip for springs — Technical delivery conditions*

EN 22768-1:1993, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications* (ISO 2768-1:1989)

EN 22768-2:1993, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications* (ISO 2768-2:1989)

EN ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings* (ISO 10683:2014)

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3 Representations**3.1 Configuration, dimensions, tolerances and mass**

The configuration, dimensions, tolerances and mass shall confirm with Figure 1 and Table 2. Tolerances not specified, shall be in accordance with ISO 2768-mK (EN 22768-1:1993 and EN 22768-2:1993). Missing dimensions are left to manufacturer's option.

3.2 Material and surface treatment

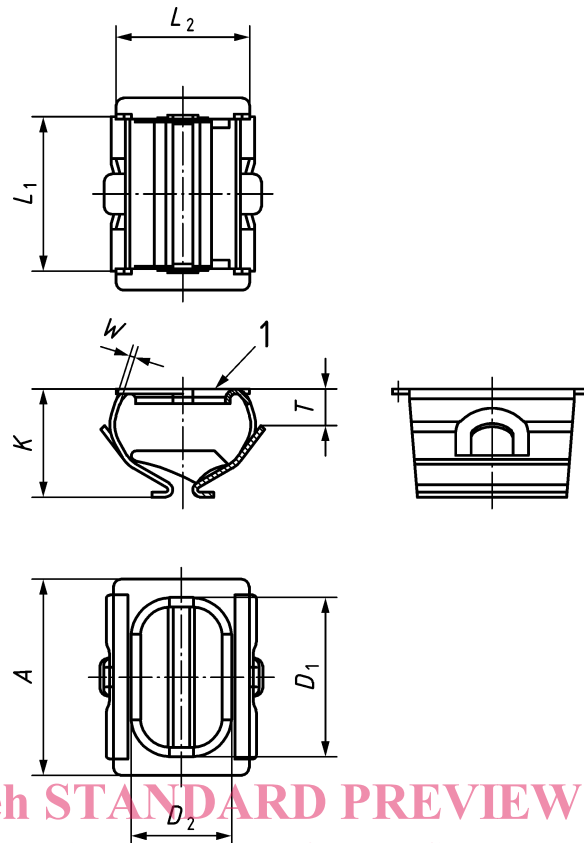
See Table 3.

3.3 Mechanical characteristics

Ultimate loads see Table 1. The applicable temperature range is $-55\text{ }^{\circ}\text{C}$ to $85\text{ }^{\circ}\text{C}$.

Table 1 — Loads

Type code	Ultimate loads N	Material code
01	600	A, C
02	600	A, C

**Key**

- L_1 Length 1
- L_2 Length 2
- W Thickness
- K Height
- T Grip range
- A Overall length
- D_1 Hole length
- D_2 Hole width
- 1 Marking

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Figure 1 — Configuration “spring clamp”**Table 2 — Dimension and mass**

Type Code	L_1 mm	L_2 mm	W mm	A mm	K mm	D_1 mm	D_2 mm	Installation hole mm × mm	T mm	Mass g
01	9,4	9,4	0,5	12,0	10,9	$8,4^{-0,3}$	7,2	$9,4^{+0,1} \times 9,4^{+0,1}$	$3,6^{+0,2}$	1,1
02	$16,0^{-0,2}$	13,9	0,5	19,1	10,7	13,7	7,7	$14^{-0,2} \times 16,2^{+0,4}$	$3,5^{+0,2}$	2,2

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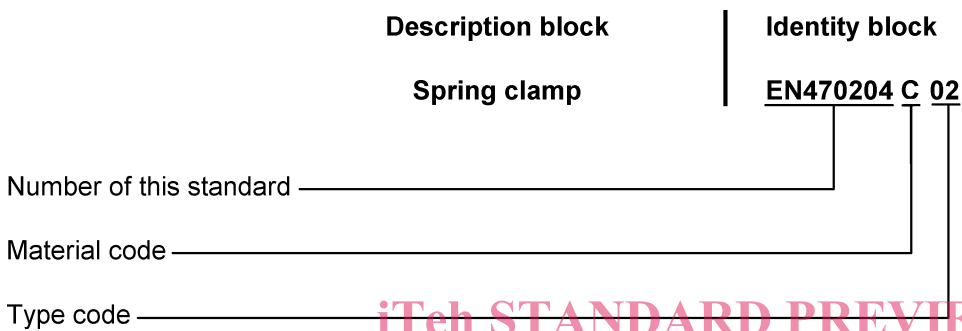
3.4 Material

Table 3 — Material

Material code	Material	Surface treatment
A	Alloy steel 1.1274 according to EN 10132-4	EN ISO 10683
C	Stainless steel 1.4310 according to EN 10151	-

4 Designation

EXAMPLE



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5 Marking

Marking shall be in accordance with EN 2424, Style F, [EN 4702-04:2018](https://standards.iteh.ai/catalog/standards/sist/7c1fe13f-f9cb-41a6-9b25-a6f9788c5b79/sist-en-4702-04-2018)

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6 Quality assurance

6.1 Supplier certification

The manufacturer's operations shall be an approved production organization for aerospace products and shall demonstrate that it has implemented and is able to maintain a quality system (e. g. according to EN 9100 or another in aerospace accepted and established quality management system).

6.2 Product qualification

The technical requirements for the product standard qualification are listed in EN 4710-01.

The product qualification shall be performed to the process as defined in e. g. EN 9133 to achieve a qualification approval from the controlling Certification Authority (CA).

7 Technical Specification

Required tests for acceptance and qualification shall be in accordance to Table 4 and EN 4710-01.

Table 4 — Requirements, inspections and tests

Characteristic	Requirements	Requirements according to EN 4710-01	Inspections and tests according to EN 4710-01	A ^a	Q ^b
Materials	According to Table 3	4.1	5.4.1	X	X
Dimensions and masses	According to Table 2	4.2	5.4.2	X	X
Surface defects	According to EN 4710-01	4.3.1	5.4.3.1	X	X
Surface treatment	According to Table 3	4.3.2	5.4.3.2	X	X
Ultimate tensile loads	According to Table 1	4.4.1	5.4.4.1	-	X
Corrosion resistance	According to EN 4710-01	4.5	5.4.5	-	X
Functionality	According to EN 4710-01	4.7.1	5.4.7.1	-	X
Endurance	1 500 cycles	4.7.2	5.4.7.2	-	X
Identification marking of the product	According to EN 4710-01	4.8.1	5.4.8.1	X	X
Identification marking of the package	According to EN 4710-01	4.8.2	5.4.8.2	X	X
^a Acceptance test. ^b Qualification test.					