SLOVENSKI STANDARD
SIST EN 4710-006:2015

01-december-2015

Aeronavtika - Sponční sistemi za hitro sprostitev za nestrukturne aplikacije - 006. del: Stojni vijak - hitro sproščanje in zapiranje

Aerospace series - Quick release fastening systems for non-structural applications - Part 006: Stud - quick-release and locking

Luft- und Raumfahrt - Druckverschlüsse nicht-strukturelle Anwendungen - Teil 006: Bolzen - Schnell Auslösend und Schließend

Série aérospatiale - Fixations rapides filetées pour applications non-structurales - Partie 006 : Pion à démontage et à verrouillage rapide

Ta slovenski standard je istoveten z: **EN 4710-06:2015**

ICS:

49.030.20	Sorniki, vijaki, stebelni vijaki	Bolts, screws, studs

SIST EN 4710-006:2015 **en,fr,de**

EUROPEAN STANDARD

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EN 4710-06

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ICS 49.035

English Version

Aerospace series - Quick release fastening systems for non-structural applications - Part 06: Stud - quick-release and locking

Série aérospatiale - Fixations rapides filetées pour applications non-structurales - Partie 06 : Pion à démontage et à verrouillage rapide

Luft- und Raumfahrt - Schnellverschlüsse für nicht-strukturelle Anwendungen - Teil 06: Bolzen - Schnell auslösend und schließend

This European Standard was approved by CEN on 5 March 2015.

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

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

Contents

European foreword

This document (EN 4710-06:2015) 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of an identical text or by endorsement, at the latest by April 2016, and conflicting national standards shall be withdrawn at the latest by April 2016.

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1 Scope

This European Standard specifies the dimensions, mass, tolerances and static values of stud - quick-release and locking for use in fuselage interior equipment and non-structural or secondary structural area.

This European Standard is to be used in conjunction with EN 4710-03, EN 4710-04, EN 4710-05 and EN 4710-07 as described in EN 4710-02.

The applicable temperature range is -55 °C to 85 °C.

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 2424, *Aerospace series — Marking of aerospace products*

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys*

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

EN 4710-02, *Aerospace series — Quick release fastening systems for non-structural applications — Part 02: Spring clamp stud combination*

EN 4710-03, *Aerospace series — Quick release fastening systems for non-structural applications — Part 03: Spring clamp*

EN 4710-04, *Aerospace series — Quick release fastening systems for non-structural applications — Part 04: Spring clamp — One way tolerance compensation*

EN 4710-05, *Aerospace series — Quick release fastening systems for non-structural applications — Part 05: Spring clamp — Two ways tolerance compensation*

EN 4710-07, *Aerospace series — Quick release fastening systems for non-structural applications — Part 07: Retaining grommet*

EN 10088-3, *Stainless steels — Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes*

EN 12165, *Copper and copper alloys — Wrought and unwrought forging stock*

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 1456, *Metallic and other inorganic coatings — Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nickel plus chromium (ISO 1456)*

3 Requirements

3.1 Configuration, dimensions, tolerances and mass

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

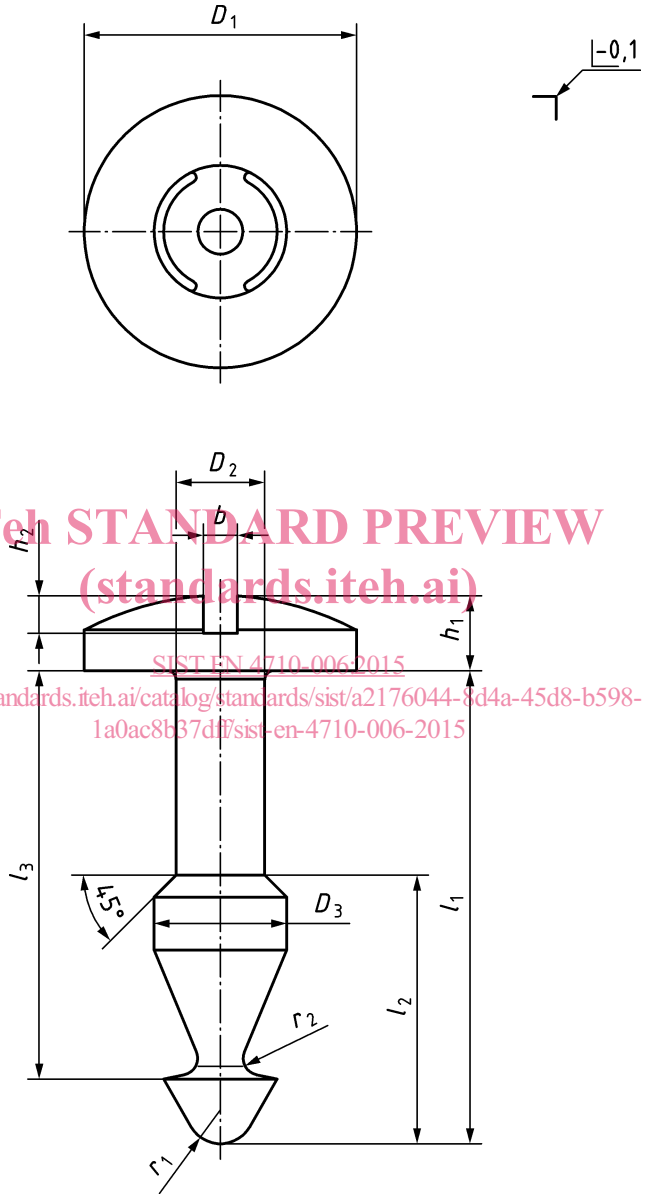
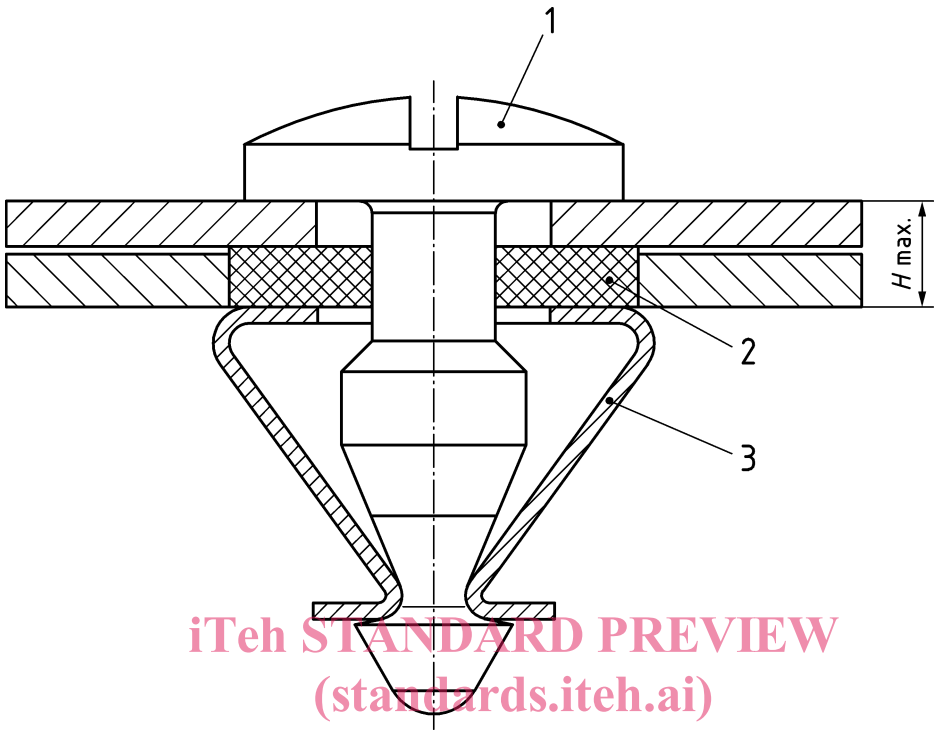


Figure 1 — Configuration pin Px

Figure 2 shows an example of installation of EN 4710-06 (1), EN 4710-07 (2) and EN 4710-03 to EN 4710-05 (3).

H shows the maximum thickness of parts assembled with the used pin.



Key

1 Stud as per EN 4710-06 (1)

2 Grommet as per EN 4710-07 (2)

3 Spring Clamp as per EN 4710-03 to EN 4710-05 (3)

Figure 2 — Grip range *H*

Table 1 — Dimensions and mass

Dimensions in millimetres

Type code	Length code	b +0,1 0	∅ D_1	∅ D_2	∅ D_3 0 −0,1	h_1	h_2	l_1 ±0,1	l_2	l_3 ±0,1	H max.	r_1	r_2	r_3 min.	**Mass** Approx. g
PS	020	1,0	8,0	2,6	3,9	2,2	1,0	11,2	7,9	9,3	2,9	1,0	0,5	0,1	1,4
	025							11,6		9,7	3,3				1,4
	030							12,2		10,3	3,9				1,4
	035							12,6		10,7	4,3				1,4
	040							13,0		11,1	4,7				1,5
	045							13,4		11,5	5,1				1,5
	050							13,9		12,0	5,6				1,5
	060							15,0		13,1	6,7				1,6
	070							16,0		14,1	7,7				1,6
	080							17,2		15,3	8,9				1,7
	090							18,2		16,3	9,9				1,7
	100							19,2		17,3	10,9				1,8
	120							21,2		19,3	12,9				1,9
PM	020	1,5	11,0	4,5	6,3	2,4	1,0	15,6	11,9	13,4	3,3	1,6	1,0		3,9
	030							16,6		14,4	4,3				4,0
	040							17,6		15,4	5,3				4,2
	050							18,6		16,4	6,3				4,4
	060							19,8		17,6	7,5				4,6
	070							20,6		18,4	8,3				4,7
	080							21,8		19,6	9,5				4,8
	090							22,6		20,4	10,3				4,9
	100							23,6		21,4	11,3				5,0
	110							24,6		22,4	12,3				5,2
	120							25,8		23,6	13,5				5,4
	130							26,8		24,6	14,5				5,6
	140							27,6		25,4	15,3				5,9
	160							29,6		27,4	17,3				6,0
	180							31,6		29,4	19,3				6,2
	200							33,8		31,6	21,5				6,5
	220							35,6		33,4	23,3				6,8
PL	040	2,0	16,0	6,5	9,4	3,3	1,5	22,2	15,7	18,4	6,1	2,5	1,5		10,9
	050							23,2		19,4	7,1				11,2
	060							24,2		20,4	8,1				11,5
	080							26,2		22,4	10,1				12,1
	100							28,1		24,3	12,0				12,7
	120							30,1		26,3	14,0				13,3
	140							32,4		28,6	16,3				13,9
	160							34,1		30,3	18,0				14,5
	180							36,0		32,2	19,9				15,1
	200							38,1		34,3	22,0				15,7