



SLOVENSKI STANDARD

SIST EN 2596:2001

01-januar-2001

Aerospace series - Washers, lock, with radial serrations, in corrosion resisting steel, cadmium plated - Dimensions

Aerospace series - Washers, lock, with radial serrations, in corrosion resisting steel, cadmium plated - Dimensions

Luft- und Raumfahrt - Sicherungen, radialverzahnt aus korrosionsbeständigem Stahl, verkadmet - Maße

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Série aérospatiale - Freins a stries radiales en acier résistant a la corrosion, cadmiés - Dimensions

[SIST EN 2596:2001](#)

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Ta slovenski standard je istoveten z: EN 2596:1988

ICS:

49.030.50

Podložke in drugi blokirni elementi

Washers and other locking elements

SIST EN 2596:2001

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2596

January 1988

UDC : 629.7.05 : 621.827.1 : 621.882.4-59.004.1 : 669.14.018.89 : 669.738

Key words : Aircraft industry, flight control, rod-ends, lock washers, corrosion resisting steel, cadmium, dimensions.

English version

**Aerospace series
Washers, lock,
with radial serrations,
in corrosion resisting steel,
cadmium plated
Dimensions**

**Série aérospatiale
Freins à stries radiales
en acier résistant à la corrosion,
cadmiés
Dimensions**

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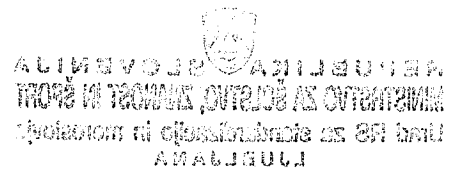
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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat : Rue Bréderode 2, B—1000 Bruxelles



Brief history

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This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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After enquiries and votes carried out in accordance with the rules of this Association, this draft has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to C.E.N.

According to the Common CEN/CENELEC Rules, following countries are bound to implement this European Standard:

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SIST EN 2596:2001
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1 Scope and field of application

This standard specifies the characteristics of lock washers in corrosion resisting steel, cadmium plated, with radial serrations primarily intended for flight control rods.

These lock washers are intended to immobilise the end fitting in relation to the rod body, whilst allowing a precise positional adjustment.

2 References

EN 2133, Cadmium plating of steels with a maximum specified tensile strength equal to or less than 1450 MPa, and copper and copper alloys - Aerospace series

EN 2538, Aerospace series - Steel FE-PM 61 - $1240 \text{ MPa} \leq R_m \leq 1310 \text{ MPa}$ - Sheet a $\leq 10 \text{ mm}$ 1)

3 Required characteristics

3.1 Dimensions - Tolerances - Mass

Configuration shall correspond with figures 1, 2 and 3.

The dimensions and masses shall conform with values quoted in tables 1 and 2.

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Dimensions apply after cadmium plating.

3.2 Surface roughness

$R_a = 3,2 \text{ } \mu\text{m}$; this value applies prior to cadmium plating.

3.3 Material

Steel EN 2538.

3.4 Surface treatment

Cadmium EN 2133, 10 to 20 μm , without chromate passivation;

1) In preparation.

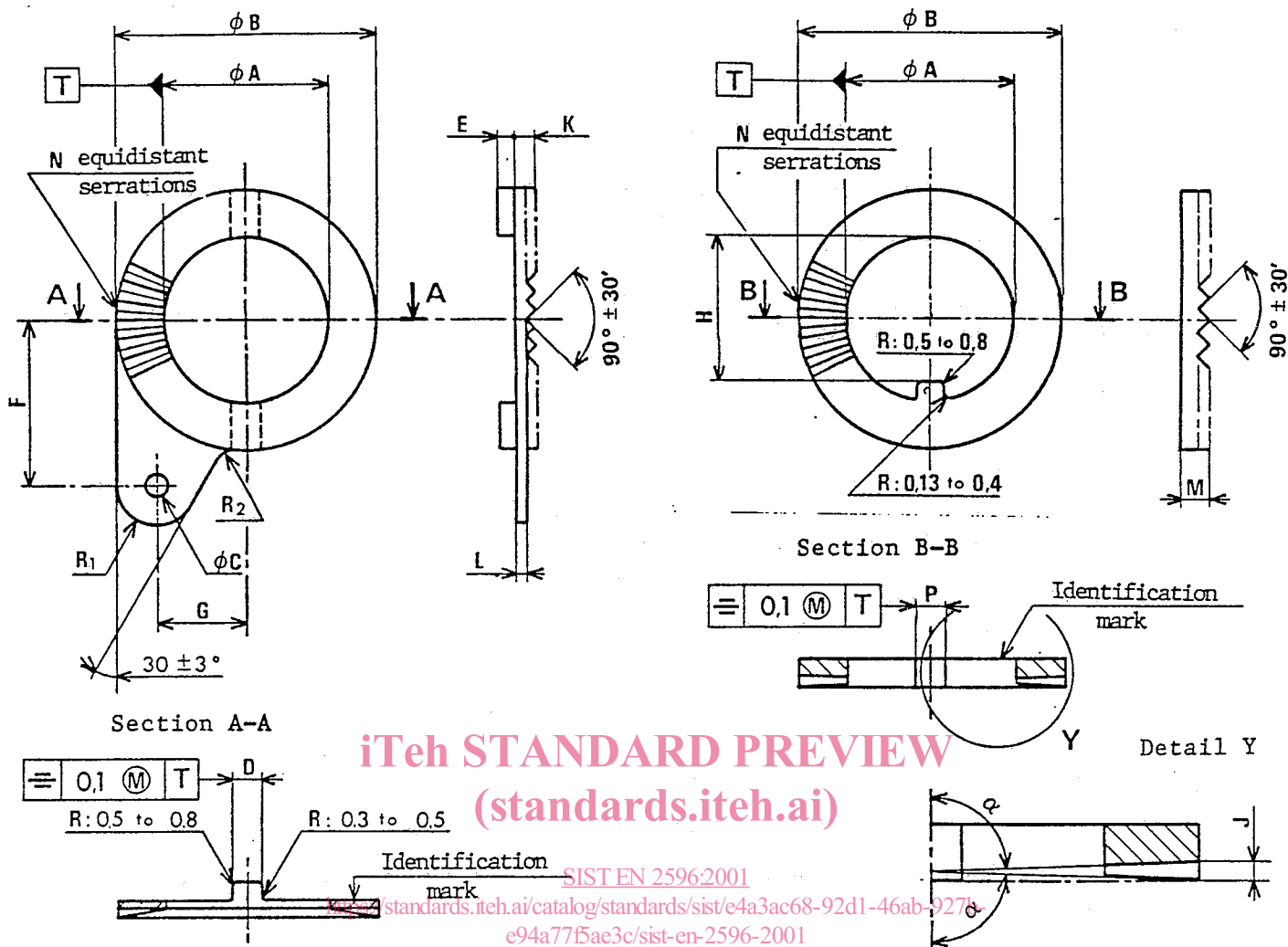


Figure 1 - Element for rod side Code A

Figure 2 - Element for end fitting side - Code B

Figure 3 - Thickness of lock washer assembly

Table 1 Dimentions in millimetres

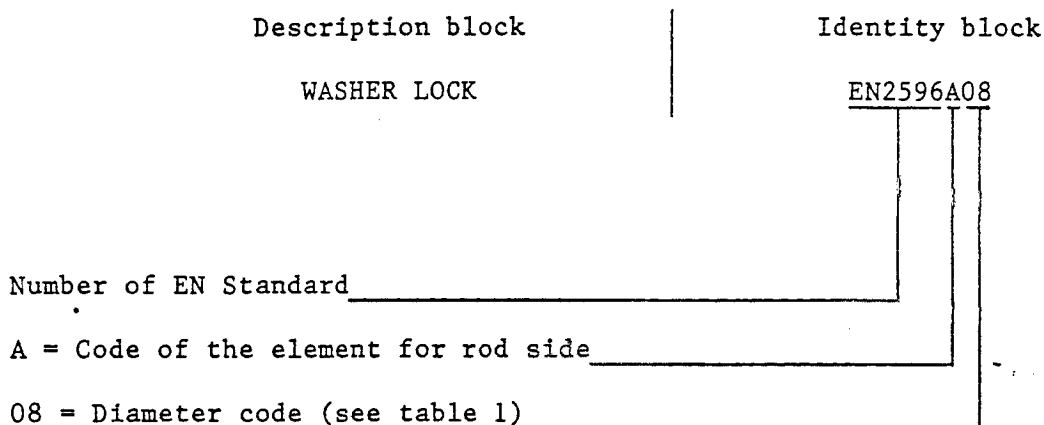
Diameter code	A	B	C	D	E	F	G	H	J	K	L	M	P	R1	R2
	+0,1	+0,5 0	+0,25	+0,15	+0,15 -0,25	+0,25	+0,25	0 -0,15	≈	+0,15	+0,15	+0,15	+0,15	+0,15	+0,15
08	8,2	12,7	1,6	1,3	1,0	8,4	4,0	6,8	0,5	1,1	0,58	1,8	1,3	2,4	0,70
10	10,2	19,0	1,6	2,0	1,0	12,0	6,5	8,3	0,6	1,4	0,80	2,0	2,0	2,4	2,00
12	12,2	19,0	1,6	2,0	1,2	12,0	6,5	10,5	0,6	1,4	0,80	2,0	2,0	2,4	2,00
14	14,2	22,0	1,8	3,0	1,5	13,0	8,8	12,5	0,6	1,4	0,80	2,3	3,0	2,4	2,00
16	16,3	25,4	1,8	3,0	1,5	14,7	10,0	14,0	0,7	1,6	0,86	2,3	3,0	2,7	1,45

Table 2

Diameter code	N Number of serrations	α°		L+M $\pm 0,3$ mm.	Mass lock-washer assembly $\approx g$
		min.	max.		
08	42	87°21'	88°21'	2,38	1,8
10	50	87°42'	88°42'	2,80	6,0
12	50	87°42'	88°42'	2,80	4,5
14	56	89°20'	90°	3,10	5,8
16	56	89°20'	90°	3,16	9,6

4 Designation

Each lock washer with radial serrations shall only be designated as in the following example :



Meaning of codes used :

- A = Lock washer element for rod side
- B = Lock washer element for end fitting side
- C = Lock washer assembly

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Note : If necessary, the originator code S9005 may be introduced between the description block and the identity block.

5 Marking

In addition to the manufacturer's mark or symbol, each lock washer element shall be marked by using the identity block shown in clause 4 of this standard.

These markings shall be indelible and shall not impair the characteristics of the lock washer.