



SLOVENSKI STANDARD

SIST EN 2546:2001

01-januar-2001

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

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

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

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

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Ta slovenski standard je istoveten z: **EN 2546:1988**

ICS:

49.030.50	Podložke in drugi blokirni elementi	Washers and other locking elements
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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 2546

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

English version

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

Série aéronautique Freins à stries radiales en acier résistant à la corrosion Dimensions
Luft- und Raumfahrt Sicherungen, radialverzahnt aus korrosionsbeständigem Stahl Maße

SIST EN 2546:2001

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Central Secretariat 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 CEN Central Secretariat has the same status as the official versions.

CEN members are the national standards organizations of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

Central Secretariat : Rue Bréderode 2, B-1000 Bruxelles

Brief history

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

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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1 Scope and field of application

This standard specifies the characteristics of lock washers in corrosion resisting steel 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 2516, Aerospace series - Passivation for corrosion resisting steel 1)

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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3.2 Surface roughness

$R_a = 3,2 \text{ }\mu\text{m}$.

3.3 Material

Steel EN 2538.

3.4 Surface treatment

Passivation EN 2516.

1) In preparation.

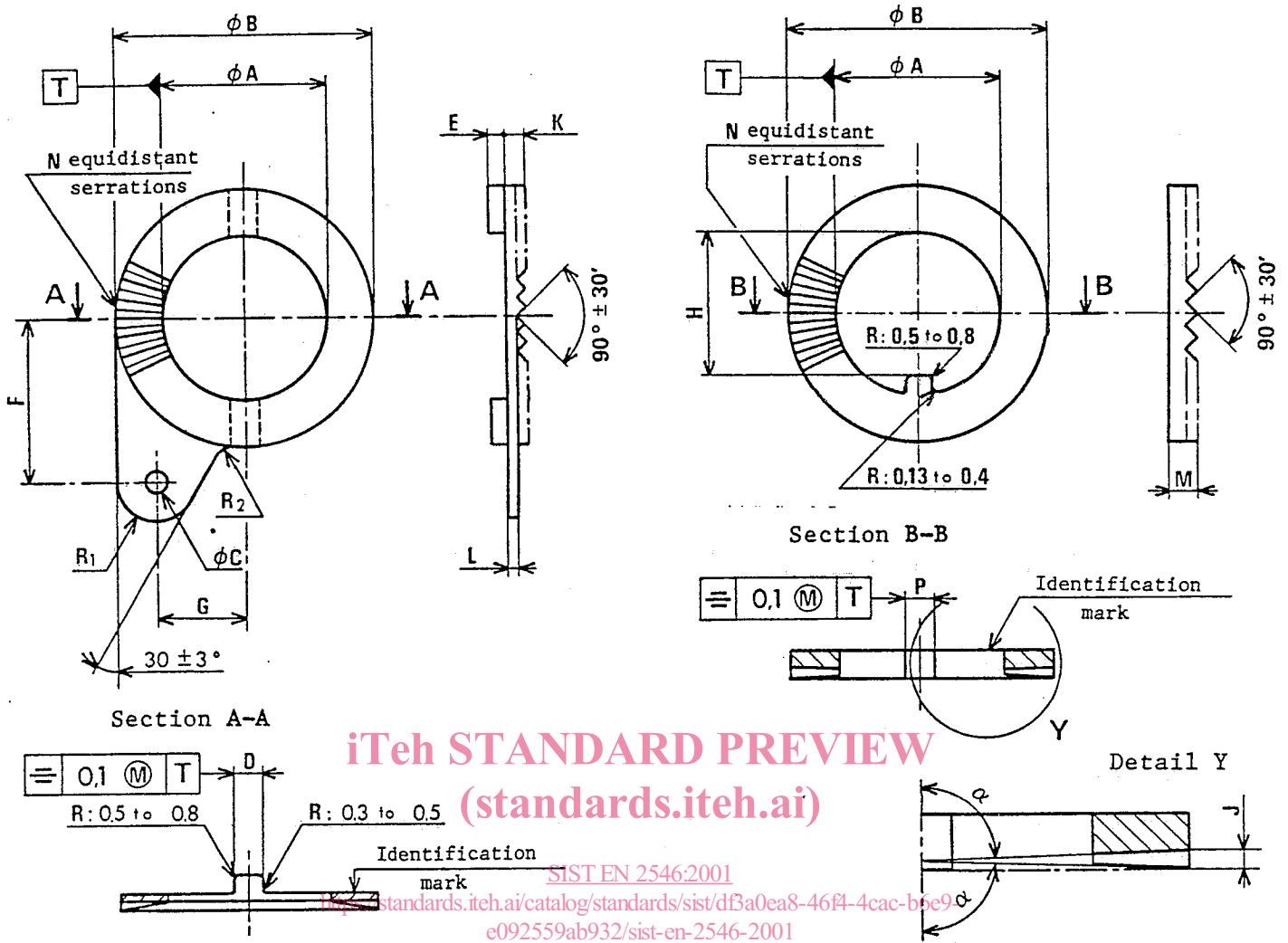


Figure 1 - Element for rod side Code A

Figure 2 - Element for end fitting side - Code B

Figure 3 - Thickness of lock washer assembly

Table 1 Dimensions in millimetres

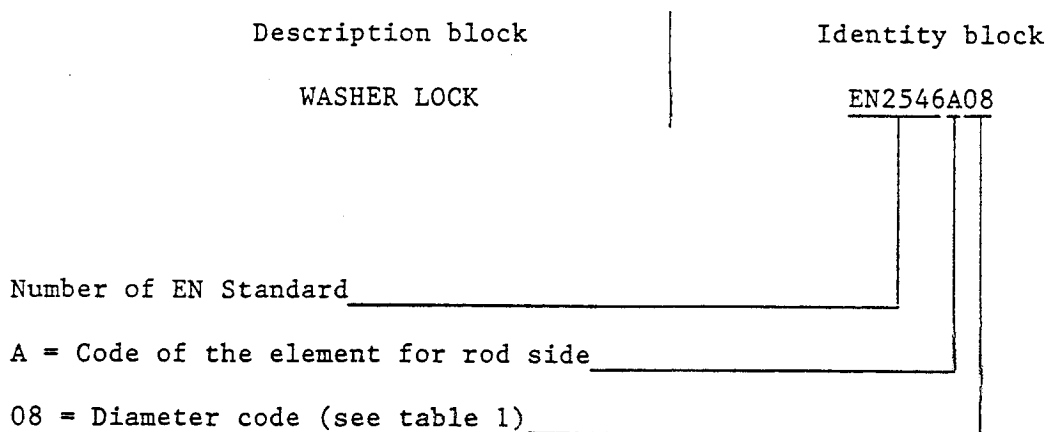
Diameter code	A	B	C	D	E	F	G	H	J	K	L	M	P	R1	R2
	+0,1	+0,5 0	+0,25	+0,15	+0,15 -0,25	+0,25	+0,25	0 -0,15	≈	+0,15	+0,15	+0,15	+0,15	+0,15	+0,15
08	8,2	12,7	1,6	1,3	1,0	8,4	4,0	6,8	0,5	1,1	0,58	1,8	1,3	2,4	0,70
10	10,2	19,0	1,6	2,0	1,0	12,0	6,5	8,3	0,6	1,4	0,80	2,0	2,0	2,4	2,00
12	12,2	19,0	1,6	2,0	1,2	12,0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