



SLOVENSKI STANDARD
SIST EN 6090:2016
01-november-2016

Aeronavtika - Podložke, zadrževalne

Aerospace series - Washer, retaining

Luft- und Raumfahrt - Sicherungsscheibe

Série aérospatiale - Rondelle frein

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Ta slovenski standard je istoveten z: EN 6090:2016

[SIST EN 6090:2016](https://standards.iteh.ai/catalog/standards/sist/88e01639-2dd3-42ba-a2b2-af0f333207b1/sist-en-6090-2016)

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ICS:

49.030.50	Podložke in drugi blokirni elementi	Washers and other locking elements
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SIST EN 6090:2016

en,fr,de

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EUROPEAN STANDARD

EN 6090

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2016

ICS 49.030.50

English Version

Aerospace series - Washer, retaining

Série aérospatiale - Rondelle frein

Luft- und Raumfahrt - Sicherungsscheibe

This European Standard was approved by CEN on 11 March 2016.

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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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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

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European foreword

This document (EN 6090:2016) 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 February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 6090:2016 (E)**1 Scope**

This European Standard specifies the dimensions, tolerances, required characteristics and mass of a retaining washer for use in fuselage interior equipment and structural applications.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 resistant steels and decontamination of nickel base alloys*

EN 6095, *Aerospace series — Rotary fasteners — Structural and non-structural applications — Technical specification*¹⁾

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

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

SAE AMS 2700, *Passivation of corrosion resistant steels*²⁾

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

The configuration, dimensions, tolerances and mass shall conform with Figure 1 to 4 and Table 1.

Dimensions and tolerances are expressed in millimeters.

Tolerances not specified shall be in accordance with ISO 2768-1 (Tolerance class: ISO 2768-m).

All dimensions and tolerances apply after surface treatment.

All burrs to be removed / sharp edges to be broken.

1) In preparation at the date of publication of this standard.

2) Published by: Society of Automotive Engineers (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001, USA.

Table 1 — Dimensions and mass

Size code	Type	α_1	α_2	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	b	t	Mass (Ref.) kg/1 000pcs
01	A	30°	15°	5,70 $\begin{smallmatrix} +0,20 \\ 0 \end{smallmatrix}$	8,9	11,8 $\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	0,60	0,25	0,13
10	B			6,20 $\begin{smallmatrix} 0 \\ -0,10 \end{smallmatrix}$					
11				6,45 $\pm 0,05$					
20	C	18°	9°	14,20 $\begin{smallmatrix} 0 \\ -0,10 \end{smallmatrix}$	16,0	19,0 $\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	—	0,30	0,24
21				D					
	20,52 $\begin{smallmatrix} +0,05 \\ 0 \end{smallmatrix}$	22,2							

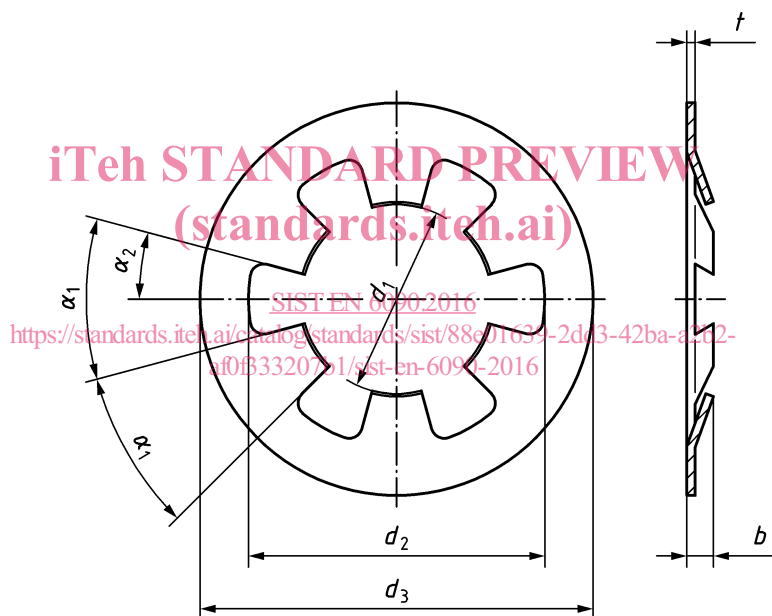


Figure 1 — Configuration type A

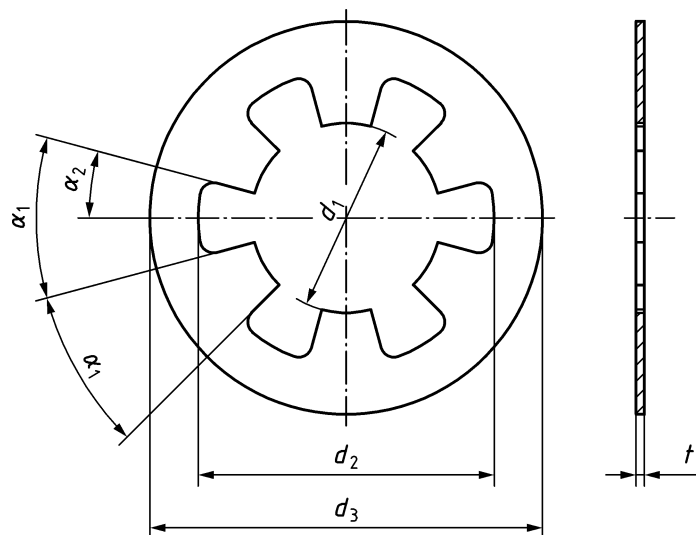


Figure 2 — Configuration type B

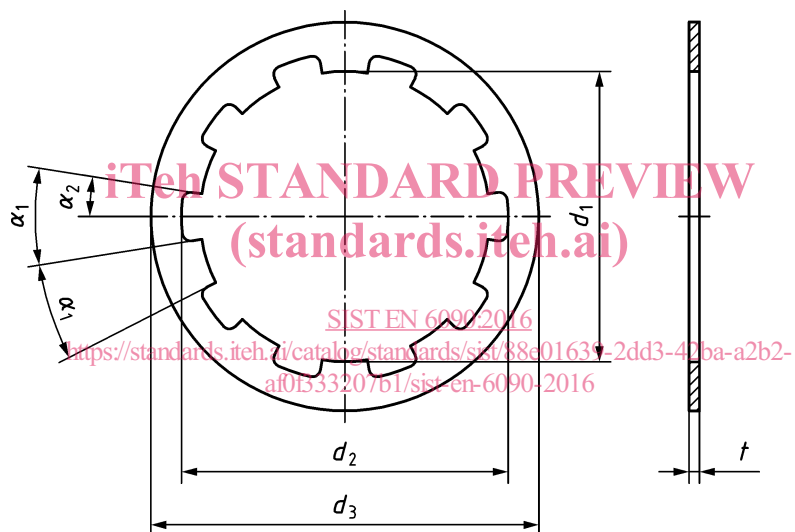


Figure 3 — Configuration type C

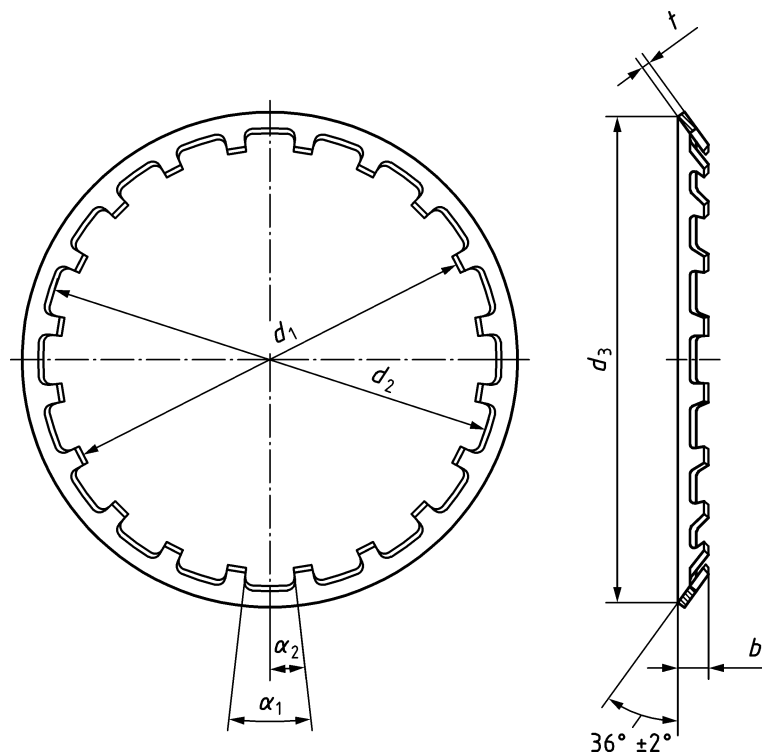


Figure 4 — Configuration type D

3.2 Material and surface treatment

See Table 2.

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Table 2 — Material and surface treatment

Type code	Material	Surface treatment
A	Corrosion resistant steel 1.4310 + C1500 + 2H per EN 10151	Passivated per AMS 2700 or EN2516
B		
C		
D		

3.3 Operating temperature

This washer shall be used in the temperature range of -55 °C to 150 °C .