

Aerospace series - Washers, wire locking in aluminium alloy, anodized

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## EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN 3904:2017 sisaldab Euroopa standardi EN 3904:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 3904:2017 consists of the English text of the European standard EN 3904:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 22.11.2017.	Date of Availability of the European standard is 22.11.2017.
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EUROPEAN STANDARD

**EN 3904**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

## Aerospace series - Washers, wire locking in aluminium alloy, anodized

Série aérospatiale - Pattes d'ancrage, en alliage d'aluminium, anodisées

Luft- und Raumfahrt - Scheiben, Drahtsicherung aus Aluminiumlegierung, anodisiert

This European Standard was approved by CEN on 4 September 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.

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.

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

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## European foreword

This document (EN 3904:2017) 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 May 2018, and conflicting national standards shall be withdrawn at the latest by May 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.

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## 1 Scope

This European Standard specifies the characteristics of wire locking washers in aluminium alloy, anodized for maximum operating temperature 120 °C for aerospace 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 2090, *Aerospace series - Aluminium alloy AL-P2024-T3 - Clad sheet and strip 0,3 mm <a <6 mm*

prEN 2091-001, *Aluminium Alloy AL-P13 PI - T4 - Clad Sheets And Strips* <sup>1)</sup>

prEN 2091-002, *Aluminium alloy 2024-T4 - Clad sheet and strip - 0,4 ≤ a ≤ 6 mm* <sup>1)</sup>

EN 2284, *Aerospace series - Sulphuric acid anodizing of aluminium and wrought aluminium alloys*

EN 2424, *Aerospace series - Marking of aerospace products*

EN 9100, *Quality Management Systems - Requirements for Aviation, Space and Defense Organizations*

## 3 Required characteristics

### 3.1 Configuration – Dimensions – Masses

See Figure 1 and Table 1. Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

### 3.2 Materials

EN 2090 or prEN 2091-001 or prEN 2091-002.

### 3.3 Surface treatment

EN 2284.

Values in micrometres apply prior to surface treatment.

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1) Published as ASD-STAN pre-standard at the date of publication of the present standard ([www.asd-stan.org](http://www.asd-stan.org))