EESTI STANDARD EVS-EN 3848:2002

Aerospace series - Semi-finished metallic products - Methods of measuring form deviations

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EESTI STANDARDIKESKUS

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 3848:2002 sisaldab Euroopa standardi EN 3848:2001 ingliskeelset teksti. Käesolev dokument on jõustatud 16.05.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 3848:2002 consists of the English text of the European standard EN 3848:2001. This document is endorsed on 16.05.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard specifies the methods of measuring deviations from the nominal from of semi-finished metallic products for aerospace applications.	**Scope:** This standard specifies the methods of measuring deviations from the nominal from of semi-finished metallic products for aerospace applications.

ICS 49.035

Võtmesõnad: aerospace transport, air transport, circular tubes, deviations, dimensions, hexagonal rods, measuring techniques, metallic, methods, plates, rectangular bars, round rods, semi-finished products, sheet materials, sheets, square rods

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3848

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English version

Aerospace series - Semi-finished metallic products - Methods of measuring form deviations

Série aérospatiale - Demi-produits métalliques - Méthodes de measure des défauts de forme

Luft- und Raumfahrt - Metallisches Halbzeug - Meßverfahren für Formabweichungen

This European Standard was approved by CEN on 2 May 2001.

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 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 Management Centre has the same status as the official versions.

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

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 3848:2001 E

Foreword

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

After inquiries 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 AECMA, 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 March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the methods of measuring deviations from the nominal form of semi-finished metallic products for aerospace applications.

This standard does not apply to:

- extruded sections: see EN 2066;
- folded sections: see EN 2065.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 2065	Folded profiles - Aluminium alloys - General tolerances - Aerospace series
EN 2066	Aerospace series - Extruded sections in aluminium alloys - General tolerances
ISO 1101	Technical drawings, geometrical tolerancing; tolerances of form, orientation, location and runout; generalities, definitions, symbols of drawings

3 Measuring condition

The dimensions shall be measured using measuring instruments which are of the accuracy required by the dimensions and the dimensional tolerances.
All dimensions shall be checked at the ambient temperature of the workshop or laboratory, and, in the event of dispute, at a temperature between 15 °C and 25 °C.

Surface plates used for the measurement of form deviations shall be flat to within ≤ 1 % of the requisite product form deviation being measured.

4 Sheet and plate

4.1 Squareness

The squareness deviation shall be measured as the difference in length of diagonals *AA* and *BB* as shown in figure 1.

4.2 Lateral curvature

The lateral curvature (*F)* shall be measured as indicated in figure 2, with the sheet or plate resting on a horizontal surface plate.