

Aerospace series - Screw, 100° countersunk normal head, Spiral Drive Recess, short thread, in heat resisting steel FE-PA2601 (A286), passivated -
Classification: 900 MPa (at ambient temperature)/650 °C

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 4845:2022 sisaldab Euroopa standardi EN 4845:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 4845:2022 consists of the English text of the European standard EN 4845:2022.
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 and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.03.2022.	Date of Availability of the European standard is 23.03.2022.
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ICS 49.030.20

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English Version

**Aerospace series - Screw, 100° countersunk normal head,
Spiral Drive Recess, short thread, in heat resisting steel FE-
PA2601 (A286), passivated - Classification: 900 MPa (at
ambient temperature)/650 °C**

Série aérospatiale - Vis à tête fraisée normale 100°,
empreinte en spirale, filetage court, en acier résistant à
chaud FE-PA2601 (A286), passivée - Classification :
900 MPa (à température ambiante)/650 °C

Luft- und Raumfahrt - 100° Senkschraube mit Spiral-
Antrieb, kurzes Gewinde, aus hochwarmfestem Stahl
FE-PA2601 (A286), passiviert - Klasse: 900 MPa (bei
Raumtemperatur)/650 °C

This European Standard was approved by CEN on 10 January 2022.

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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 4845:2022) 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 September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

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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Introduction

Aerospace and Defence Standardisation (ASD-STAN) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent "Spiral Drive System for Threaded Fasteners" EP1025370B1.

ASD-STAN takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured ASD-STAN that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with ASD-STAN. Information may be obtained from:

Phillips Screw Company
301 Edgewater Drive, Suite 320
Wakefield, Massachusetts 01880
USA

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. ASD-STAN shall not be held responsible for identifying any or all such patent rights.

1 Scope

This document specifies the characteristics of externally threaded fasteners, 100° countersunk normal head, Spiral Drive Recess, short thread, in heat resisting steel FE-PA2601, passivated, for aerospace applications.

Classification: 900 MPa¹/650 °C².

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2399, *Aerospace series — Heat resisting steel FE-PA2601 (X4NiCrTiMoV26-15) — $R_m \geq 900$ MPa — Bars for forged bolts — $D \leq 25$ mm*

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

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys*

EN 2576, *Aerospace series — Bolts, MJ threads, in heat resisting steel FE-PA2601 (A286) — Classification: 900 MPa (at ambient temperature)/650 °C — Technical specification*

EN 3639, *Aerospace series — Heat resisting alloy X6NiCrTiMoV26-15 (1.4980) — Softened and cold worked — Wires for forged fasteners — $D \leq 15$ mm — $900 \text{ MPa} \leq R_m \leq 1\,100 \text{ MPa}$*

EN 4609, *Aerospace series — Spiral drive recesses for threaded fasteners — Geometrical definition and technical requirements*

ISO 3353-1, *Aerospace — Lead and runout threads — Part 1: Rolled external threads*

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts*

ISO 7913, *Aerospace — Bolts and screws, metric — Tolerances of form and position*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

¹ Minimum tensile strength of the material at ambient temperature.

² Maximum temperature that the externally threaded fastener can withstand without continuous change in its original characteristics, after return to ambient temperature. The maximum temperature is determined by the material.