

Aerospace series - Fibre reinforced plastics - Test method - Determination of notched, unnotched and filled hole compression strength

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 6036:2015 sisaldab Euroopa standardi EN 6036:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 6036:2015 consists of the English text of the European standard EN 6036:2015.
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.
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English Version

**Aerospace series - Fibre reinforced plastics - Test method -
Determination of notched, unnotched and filled hole
compression strength**

Série aérospatiale - Matières plastiques renforcées de
fibres - Méthode d'essai - Détermination de la
résistance en compression trouée, lisse et trouée
habitée

Luft- und Raumfahrt - Faserverstärkte Kunststoffe -
Prüfverfahren - Bestimmung der Kerbdruckfestigkeit
an gekerbten, ungekerbten und gebolzten
Probekörpern

This European Standard was approved by CEN on 10 August 2013.

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 6036:2015) 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 May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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.

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1 Scope

This standard defines a method to be used to determine the compression strength of notched, unnotched and filled hole fibre reinforced plastics.

It is applicable to composite laminates with unidirectional layers or woven fabric reinforcement.

This standard does not give any direction necessary to meet health and safety requirements. It is the responsibility of the user of this standard to consult and establish appropriate health and safety precautions.

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 2374, *Aerospace series — Glass fibre reinforced mouldings and sandwich composites — Production of test panels*

EN 2489, *Aerospace series — Fibre reinforced plastics — Determination of the action of test fluids*

EN 2565, *Aerospace series — Preparation of carbon fibre reinforced resin panels for test purposes* ¹⁾

EN 2743, *Aerospace series — Fibre reinforced plastics — Standard procedures for conditioning prior to testing unaged materials*

EN 2823, *Aerospace series — Fibre reinforced plastics — Test method for the determination of the effect of exposure to humid atmosphere on physical and mechanical characteristics* ¹⁾

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

notched tensile strength

maximum compression load experienced by the notched test specimen divided by the initial cross sectional area within the gauge length

3.2

unnotched tensile strength

maximum compression load experienced by the unnotched test specimen divided by the initial cross sectional area within the gauge length

1) Published as ASD-STAN Prestandard at the date of publication of this standard. <http://www.asd-stan.org/>