

**Lennunduse ja kosmonautika seeria -  
Klaaskiudsarrustatud vormimismaterjalid ja  
kihtkomposiidid - Testimisplaatide tootmine**

Aerospace series - Glass fibre reinforced mouldings  
and sandwich composites - Production of test  
panels

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 2374:2000 sisaldab Euroopa standardi EN 2374:1991 ingliskeelset teksti.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

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English version

Aerospace series - Glass fibre reinforced mouldings and sandwich composites - Production of test panels

Série aérospatiale - Matériaux stratifiés renforcés de fibres de verre et matériaux composites sandwich  
Préparation des panneaux d'essais

Luft-und Raumfahrt - Glasfaserverstärkte Formstoffe und Kernverbunde - Herstellen von Prüfplatten

This European Standard was approved by CEN on 1991-03-28. CEN members are bound to comply with the CEN/ENELEC 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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### 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 successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

According to the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard :

**Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxemburg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.**

## 1 Scope and field of application

This standard describes the production of laminate and sandwich composite test panels from glass fibre fabric and resin mixes. Test specimens, which are specified for the determination of the characteristics of the glass fibre reinforced mouldings, for the verification of the properties of their components or for the verification of the adhesive and sandwich composite properties, are taken from the test panel in accordance with the relevant test standard.

This standard is not applicable to the production of test panels from unidirectional glass fibre fabric and resin mixes.

## 2 References

- EN 2090 Aerospace series - Aluminium alloy 2024-T3 - Clad sheets and strips -  $0,4 \leq a \leq 6$  mm <sup>1)</sup>
- EN 2334 Aerospace series - Pickling of aluminium alloys in chromic acid <sup>2)</sup>
- EN 2514 Aerospace series - Aluminium alloy 5052-H191 - Honeycomb core <sup>2)</sup>
- EN 2743 Aerospace series - Glass reinforced plastics - Standard atmospheres for conditioning and testing <sup>2)</sup>.

## 3 Type of fabrication

### 3.1 Type A

Glass fibre fabric is impregnated with liquid resin mix and made into test panels in a press mould under the influence of pressure and temperature in accordance with the resin manufacturer's processing instructions.

### 3.2 Type B

Preimpregnated glass fibre fabric (prepreg) is made into test panels under the influence of pressure and temperature in accordance with the manufacturer's processing instructions.

### 3.3 Type C

Glass fibre fabric is impregnated with liquid resin mix and made into test panels at room or elevated temperature without application of pressure in accordance with the resin manufacturer's processing instructions.

<sup>1)</sup> Published as AECMA standard at the date of publication of the present standard.