

**Aerospace series - Technical drawings -  
Representation of parts made of  
composite materials - Part 3: Parts  
including core materials**

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Representation of parts made of composite  
materials - Part 3: Parts including core materials

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 4408-003:2005 sisaldab Euroopa standardi EN 4408-003:2005 ingliskeelset teksti.	This Estonian standard EVS-EN 4408-003:2005 consists of the English text of the European standard EN 4408-003:2005.
Käesolev dokument on jõustatud 15.07.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 15.07.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> This standard specifies the rules for the representation of parts including core materials as well as the information to be indicated in technical drawings.	<b>Scope:</b> This standard specifies the rules for the representation of parts including core materials as well as the information to be indicated in technical drawings.
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**ICS** 01.100.99, 49.020

**Võtmesõnad:**

ICS 01.100.99; 49.020

English version

**Aerospace series - Technical drawings - Representation of parts  
made of composite materials - Part 3: Parts including core  
materials**

Série aérospatiale - Dessins techniques - Représentation  
des articles en matériaux composites - Partie 3 : Articles  
intégrant des matériaux d'âme

Luft- und Raumfahrt - Technische Zeichnungen -  
Darstellung von Teilen aus Verbundwerkstoffen - Teil 3:  
Teile mit Kernwerkstoffen

This European Standard was approved by CEN on 15 July 2004.

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 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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 4408-003:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 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 November 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

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.

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

## 1 Scope

This standard specifies the rules for the representation of parts including core materials as well as the information to be indicated in technical drawings.

It applies to aerospace structures using core materials.

It shall be used together with EN 4408-001.

## 2 Normative references

The following referenced documents are indispensable for the application 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 4408-001, *Aerospace series – Technical drawings – Representation of parts made of composite materials – Part 1: General rules.*

EN 4408-002, *Aerospace series – Technical drawings – Representation of parts made of composite materials – Part 2: Laminated parts.*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 4408-001 and the following apply.

### 3.1

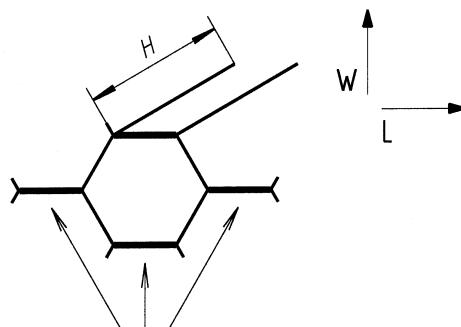
#### **alveolar material**

semi-finished product made of partly bonded or welded ribbons (before or after forming) to form geometrically identical patterns (see Figure 1 and Figure 2)

### 3.2

#### **cell**

basic closed unit of an alveolar, made of two successive tapes after forming ribbons (see Figure 1 and Figure 2)



NOTE A set of cells makes up the alveolar material

Figure 1