



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 4408-004:2005

ICS 01.100.99
49.020

AEROSPACE SERIES - TECHNICAL

DRAWINGS - REPRESENTATION OF PARTS

MADE OF COMPOSITE MATERIALS - PART 4:

ITEMS OBTAINED BY WINDING

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales
<http://www.standards.ie>

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland and comes into
effect on:
July 15, 2005*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2005

Price Code

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4408-004

May 2005

ICS 01.100.99; 49.020

English version

**Aerospace series - Technical drawings - Representation of parts
made of composite materials - Part 4: Items obtained by winding**

Série aérospatiale - Dessins techniques - Représentation
des articles en matériaux composites - Partie 4 : Articles
obtenus par enroulement

Luft- und Raumfahrt - Technische Zeichnungen -
Darstellung von Teilen aus Verbundwerkstoffen - Teil 4: Im
Wickelverfahren hergestellte Teile

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.



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

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

| Contents | Page |
|---|-------------|
| Foreword | 3 |
| Introduction | 4 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Terms and definitions | 5 |
| 4 Presentation on drawings | 6 |
| 4.1 General rules | 6 |
| 4.2 Specific rules..... | 6 |
| 4.2.1 Symbol..... | 6 |
| 4.2.2 Winding of filaments..... | 6 |
| 4.2.3 Winding of plies | 8 |
| Bibliography | 9 |

Foreword

This document (EN 4408-004:2005) 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.

EN 4408-004:2005 (E)

Introduction

The proposed representations only provide the definition of parts made up of cylinders, i.e. surfaces created by a straight (generator) line which moves while remaining parallel to a given direction, along a (directing) curve. These representations are insufficient to describe parts especially including truncated cones, cores or elliptic bottoms.

This standard is intended:

- for items obtained by winding helicoidal filaments of a basic yarn;
- for items obtained by winding plies (or layers).

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-