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AEROSPACE SERIES - TECHNICAL DRAWINGS - REPRESENTATION OF PARTS MADE OF COMPOSITE MATERIALS - PART 1: GENERAL RULES

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EUROPEAN STANDARD

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English version

Aerospace series - Technical drawings - Representation of parts made of composite materials - Part 1: General rules

Série aérospatiale - Dessins techniques - Représentation des articles en matériaux composites - Partie 1 : Règles générales

Luft- und Raumfahrt - Technische Zeichnungen - Darstellung von Teilen aus Verbundwerkstoffen - Teil 1: Allgemeine Regeln

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

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Foreword

This document (EN 4408-001:2005) 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of an identical text or by endorsement, at the latest by *November 2005*, and conflicting national standards shall be withdrawn at the latest by November 2005.

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1 Scope

This standard specifies the general rules for the representation of parts made of composite materials, in technical drawings.

It applies to aerospace structures using composites materials, and their applications when this standard is specified.

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.

ISO 128 (all parts), *Technical drawings – General principles of presentation.*

ISO 129-1, *Technical drawings – Indication of dimensions and tolerances – Part 1: General principles*

ISO 406, *Technical drawings – Tolerancing of linear and angular dimensions.*

ISO 1101, *Geometrical Product Specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out.*

ISO 3098-2, *Technical product documentation – Lettering – Part 2: Latin alphabet, numerals and marks.*

ISO 5455, *Technical drawings – Scales.*

ISO 5456-1, *Technical drawings – Projection methods – Part 1: Synopsis.*

ISO 5456-2, *Technical drawings – Projection methods – Part 2: Orthographic representations.*

ISO 5456-3, *Technical drawings – Projection methods – Part 3: Axonometric representations.*

ISO 5456-4, *Technical drawings – Projection methods – Part 4: Central projection.*

ISO 7200, *Technical product documentation – Data fields in title blocks and document headers.*

ISO 10579, *Technical drawings – Dimensioning and tolerancing – Non-rigid parts.*

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

EN 4408-003, *Aerospace series – Technical drawings – Representation of parts made of composite materials – Part 3: Parts including core materials.*

EN 4408-004, *Aerospace series – Technical drawings – Representation of parts made of composite materials – Part 4: Items obtained by winding.*

EN 4408-005, *Aerospace series – Technical drawings – Representation of parts made of composite materials – Part 5: Seams.*

EN 4408-006, *Aerospace series – Technical drawings – Representation of parts made of composite materials – Part 6: Preforms.*

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