



**NSAI**  
Standards

Irish Standard  
I.S. EN 4400-1:2019

Aerospace series - Aluminium and  
aluminium- and magnesium- alloys -  
Technical specification - Part 1:  
Aluminium and aluminium alloy plate

**I.S. EN 4400-1:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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## National Foreword

I.S. EN 4400-1:2019 is the adopted Irish version of the European Document EN 4400-1:2019, Aerospace series - Aluminium and aluminium- and magnesium- alloys - Technical specification - Part 1: Aluminium and aluminium alloy plate

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EUROPEAN STANDARD

EN 4400-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS

Supersedes EN 2070-1:1989, EN 2070-2:1989

English Version

**Aerospace series - Aluminium and aluminium- and  
magnesium- alloys - Technical specification - Part 1:  
Aluminium and aluminium alloy plate**

Série aérospatiale - Aluminium et alliages d'aluminium  
et magnésium - Spécification technique - Partie 1 :  
Tôles épaisses en aluminium et alliages d'aluminium

Luft- und Raumfahrt - Aluminium und Aluminium- und  
Magnesiumlegierungen - Technische  
Lieferbedingungen - Teil 1: Platten aus Aluminium und  
Aluminiumlegierungen

This European Standard was approved by CEN on 28 August 2017.

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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.

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



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## **European foreword**

This document (EN 4400-1:2019) 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 September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2070-1:1989, EN 2070-1/A1:1993, EN 2070-2:1989.

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

**EN 4400-1:2019 (E)****Introduction**

This European Standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

**1 Scope**

This European Standard defines the requirements for the ordering, manufacture, testing, inspection and delivery of aluminium and aluminium alloy plate, clad or unclad, supplied in the as-rolled or machined condition. It shall be applied when referred to and in conjunction with the EN material standard unless otherwise specified on the drawing, order or inspection schedule.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 515, *Aluminium and aluminium alloys — Wrought products — Temper designations*

EN 2002-001, *Aerospace series — Metallic materials — Test methods — Part 001: Tensile testing at ambient temperature*

EN 2002-6, *Aerospace series — Metallic materials — Test methods — Part 6: Bend testing*<sup>1)</sup>

EN 2002-8, *Aerospace series — Metallic materials — Test methods — Part 8: Micrographic determination of grain size*<sup>1)</sup>

EN 2002-22, *Aerospace series — Metallic materials — Test methods — Part 22: Plane strain fracture toughness test*<sup>2)</sup>

EN 2002-23, *Aerospace series — Test methods for metallic materials — Part 23: Sharp-notch tension testing*<sup>1)</sup>

EN 2004-1, *Aerospace series — Test methods for aluminium and aluminium alloy products — Part 1: Determination of electrical conductivity of wrought aluminium alloys*

EN 2004-10, *Aerospace series — Test methods for aluminium and aluminium alloy products — Part 10: Preparation of micrographic specimens for aluminium alloys*<sup>1)</sup>

EN 2007, *Aerospace series — Test methods for aluminium and aluminium alloy products — Metallographic determination of cladding thickness and copper diffusion in the cladding for rolled products*<sup>1)</sup>

EN 2021, *Aerospace series — Metallic materials — Test methods — Shear testing for thin flat product*<sup>1)</sup>

EN 2032-001, *Aerospace series — Metallic materials — Part 001: Conventional designation*

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2) In preparation at the date of publication of this standard.



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