

Aluminium and aluminium alloys — Sheet, strip and plate —

Part 1: Technical conditions for inspection and delivery

ICS 77.150.10

National foreword

This British Standard is the UK implementation of EN 485-1:2008+A1:2009. It supersedes BS EN 485-1:2008 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee NFE/35, Light metals and their alloys.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Aluminium and aluminium alloys - Sheet, strip and plate - Part 1: Technical conditions for inspection and delivery

Aluminium et alliages d'aluminium - Tôles, bandes et tôles
épaisses - Partie 1: Conditions techniques de contrôle et de
livraison

Aluminium und Aluminiumlegierungen - Bänder, Bleche
und Platten - Teil 1: Technische Lieferbedingungen

This European Standard was approved by CEN on 19 January 2008 and includes Amendment 1 approved by CEN on 20 September 2009.

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Foreword

This document (EN 485-1:2008+A1:2009) has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by April 2010, and conflicting national standards shall be withdrawn at the latest by April 2010.

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.

This document includes Amendment 1, approved by CEN on 2009-09-20.

This European Standard supersedes  EN 485-1:2008 .

The start and finish of text introduced or altered by amendment is indicated in the text by tags  .

Within its programme of work, Technical committee CEN/TC 132 entrusted CEN/TC 132/WG 7 "*Sheets, strips and plates*" to revise EN 485-1:1993.

EN 485 comprises the following parts under the general title "*Aluminium and aluminium alloys — Sheet, strip and plate*":

- *Part 1: Technical conditions for inspection and delivery*
- *Part 2: Mechanical properties*
- *Part 3: Tolerances on dimensions and form for hot-rolled products*
- *Part 4: Tolerances on shape and dimensions for cold-rolled products*

Besides very slight additional adjustments in the text and update of normative references, the following technical changes have been made:

- Clause 1: thickness increased to 400 mm;
- addition of Clause 6 (previously in EN 485-2);
- Clause 7 amended;
- addition of Clause 10;
- addition of Bibliography.

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Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This document specifies the technical conditions for inspection and delivery of wrought aluminium and wrought aluminium alloy sheet, strip and plate for ^{A1} general applications ^{A1}. It also includes ^{A1} provisions ^{A1} for ordering and testing.

It applies to products with a thickness over 0,20 mm up to and including 400 mm.

^{A1} *deleted text* ^{A1}

^{A1} For many special applications of aluminium strip, sheet and plate, specific European Standards exist, where different or additional requirements are formulated and the appropriate alloys and tempers are selected: see Annex A. Most of these special European Standards refer to provisions of this document.

The selection of the relevant special European Standards is under the responsibility of the purchaser.

Whenever the application involves special properties, such as corrosion resistance, toughness, fatigue strength, surface appearance and welding properties, the user should consult the supplier and consider the relevant special European Standard, as applicable. ^{A1}

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.

^{A1} EN 485-2:2008 ^{A1}, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 2: Mechanical properties*

EN 485-3, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 3: Tolerances on dimensions and form for hot-rolled products*

EN 485-4, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 4: Tolerances on shape and dimensions for cold-rolled products*

EN 515, *Aluminium and aluminium alloys — Wrought products — Temper designations*

EN 573-3, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 3: Chemical composition and form of products*

EN 1669, *Aluminium and aluminium alloys — Test methods — Earing test for sheet and strip*

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

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Method of test at ambient temperature*

EN 10204, *Metallic products — Type of inspection documents*

EN 12258-1:1998, *Aluminium and aluminium alloys — Terms and definitions — Part 1: General terms*

EN 14242, *Aluminium and aluminium alloys — Chemical analysis — Inductively coupled plasma optical emission spectral analysis*

EN 14361, *Aluminium and aluminium alloys — Chemical analysis — Sampling from metal melts*

EN ISO 7438, *Metallic materials — Bend test (ISO 7438:2005)*