

Aluminium and aluminium alloys — Tread plate — Specifications

The European Standard EN 1386 : 1996 has the status of a
British Standard

ICS 77.150.10

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- Aluminium Federation
- Aluminium Stockholders' Association
- Association of Light Alloy Refiners Limited
- Magnesium Industry Council
- Ministry of Defence

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Association of British Welded Aluminium Tube Makers
- Institution of Structural Engineers
- Metal Packaging Manufacturers' Association

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National foreword

This British Standard has been prepared by Technical Committee NFE/35 and is the English language version of EN 1386 : 1996, *Aluminium and aluminium alloys — Tread plate — Specifications*, published by the European Committee for Standardization (CEN).

Cross-references

Publication referred to	Corresponding British Standard
EN 485-1	BS EN 485-1 : 1994 <i>Aluminium and aluminium alloys — Sheet, strip and plate — Technical conditions for inspection and delivery</i>
EN 515	BS EN 515 : 1993 <i>Aluminium and aluminium alloys — Wrought products — Temper designations</i>
EN 573-3	BS EN 573-3 : 1995 <i>Aluminium and aluminium alloys — Chemical composition and form of wrought products — Chemical composition</i>
EN 10002-1	BS EN 10002-1 : 1990 <i>Tensile testing of metallic materials — Method of tests and ambient temperature</i>
ISO 7438	BS 1639 : 1964 <i>Methods for bend testing of metals</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

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Descriptors: Aluminium, aluminium alloys, metal plates, metal strips, rolled products, thickness, specifications, delivery, orders : sales documents, mechanical properties, dimensional tolerances, inspection, tension tests, bend tests, corrosion resistance, tread plate

English version

Aluminium and aluminium alloys — Tread plate — Specifications

Aluminium et alliages d'aluminium —
Tôles relief — Spécifications

Aluminium und Aluminiumlegierungen —
Bleche mit eingewalzten Mustern — Spezifikationen

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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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard 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 June 1997, and conflicting national standards shall be withdrawn at the latest by June 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies the technical conditions for inspection and delivery, mechanical properties, tolerances on dimensions and other requirements for wrought aluminium and aluminium alloy sheets, strips and plates, rolled flat with a raised pattern on one side and a smooth surface on the other side.

It applies to sheets, strips and plates 1,2 mm to 20 mm in thickness and up to and including 2 500 mm in width, and to sheets and plates up to 12 500 mm in length.

Products in accordance with this standard are mainly used as floor plating, e.g. in vehicle construction, shipbuilding and metallic structures.

This standard is applicable in conjunction with EN 485-1 which specifies the technical conditions for inspection and delivery for wrought aluminium and aluminium alloy sheets, strips and plates.

The chemical composition limits for these materials are specified in EN 573-3.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 485-1	<i>Aluminium and aluminium alloys — Sheet, strip and plate — Part 1: Technical conditions for inspection and delivery</i>
EN 515	<i>Aluminium and aluminium alloys — Wrought products — Temper designations</i>
EN 573-3	<i>Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 3: Chemical composition</i>

EN 10002-1	<i>Metallic materials — Tensile testing — Part 1: Method of test (including amendment 1 : 1990)</i>
ISO 7438	<i>Metallic materials — Bend test</i>
ASTM G66-86	<i>Visual assessment of exfoliation corrosion susceptibility of 5xxx series aluminium alloys (ASSET test)</i>

3 Definitions

Sheet, strip, plate are defined in EN 485-1.

For the purposes of this standard, the following definitions apply.

3.1 raised pattern

Geometrical modification of one side of the surface of a flat rolled product obtained by submitting such product to a final rolling operation using a specially prepared roll engraved with an appropriate pattern.

The raised pattern may be obtained either by cold-rolling or hot-rolling.

3.2 nominal thickness

Thickness of the product outside the raised areas. It does not include the height of the raised pattern.

3.3 pattern types

The most common patterns and their standard designations are shown in figures 1 to 5 (pattern illustrations are about half actual size). However, other patterns and designations may exist.