

## **Alumiinium ja alumiiniumisulamid. Astmeplaadid. Tehnilised nõuded**

Aluminium and aluminium alloys - Tread plate -  
Specifications

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1386:2007 sisaldab Euroopa standardi EN 1386:2007 ingliskeelset teksti.	This Estonian standard EVS-EN 1386:2007 consists of the English text of the European standard EN 1386:2007.
Käesolev dokument on jõustatud 14.09.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 14.09.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> See Euroopa standard määrab kindlaks deformeeritavast alumiiniumist ja alumiiniumisulamitest lehtede, ribade ja plaatide tehnilised kontrolli- ja tarnetingimused, samuti nende mehaanilised omadused, mõõtmeterantsid ning teised nõuded. Standard kehtib lehtede, ribade ja plaatide kohta, mis on valtsitud lamedaks ning mille ühel küljel on reljeefne muster ja teise külje pind on sile. Standard hõlmab lehti, ribasid ja plaate paksusega 1,2 mm kuni 20 mm ja laiussega kuni 2500 mm ning lehti ja plaate pikkusega kuni 12 500 mm. Sellele standardile vastavaid tooteid kasutatakse peamiselt põrandate katmiseks, näiteks liiklusvahendites, laevaehituses ning metalltarindites.	<b>Scope:</b> This document specifies the technical conditions of inspection and delivery, the mechanical properties, the tolerances on dimensions and form of rolled semi-finished aluminium alloy products intended for floor plating, e.g. in vehicle construction, shipbuilding and metallic structures with a raised pattern on one side and a smooth surface on the other side. It applies to sheets, strips and plates from 1,2 mm up to 20 mm in thickness and up to and including 2 500 mm in width, and to sheets and plates up to 14 000 mm in length.
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**Võtmesõnad:** alumiinium, alumiiniumisulamid, kontroll, mehaanilised omadused, metallplaat, metallribad, mõõtmeterantsid, müügidokumendid, paksus, tarnimine, tehnilised andmed, tellimused, tõmbeteimid, valtsotood

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

This European Standard was approved by CEN on 23 May 2007.

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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 Management Centre has the same status as the official versions.

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## Foreword

This document (EN 1386:2007) 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 January 2008, and conflicting national standards shall be withdrawn at the latest by January 2008.

This document supersedes EN 1386:1996.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 7 "Sheets, strips and plates" to revise EN 1386:1996.

The following changes have been made:

**Introduction :** added

**Clause 1:** References to EN 485-1 and EN 573-3 have been deleted

**Clause 2 – Normative references:** Updated

**Clause 4 – Pattern types:** "Barley seed" deleted and replaced by "Rice grain" (Figure 4)

**Clause 5 – Selection of materials:** Added

**Clause 6:** Modified

**Clause 7:** Modified and in Table 1, alloy EN AW-5026 and footnote for EN AW-7072 added

**Clause 8:** Added

**Clause 9:** Added

**Clause 10:** Added

**Annex B (informative):** Added

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## Introduction

It is essential that aluminium alloy semi-finished rolled products intended for use floor plating, e.g. in vehicle construction, shipbuilding and metallic structures satisfy a certain number of specific technical conditions for inspection and delivery as well as specific mechanical and other properties which distinguish them from similar semi-finished products for general applications.

## 1 Scope

This document specifies the technical conditions of inspection and delivery, the mechanical properties, the tolerances on dimensions and form of rolled semi-finished aluminium alloy products intended for floor plating, e.g. in vehicle construction, shipbuilding and metallic structures with a raised pattern on one side and a smooth surface on the other side.

It applies to sheets, strips and plates from 1,2 mm up to 20 mm in thickness and up to and including 2 500 mm in width, and to sheets and plates up to 14 000 mm in length.

## 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.

EN 485-1, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 1: Technical conditions for inspection and delivery*

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

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

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

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

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

ASTM G66, *Standard Test Method for Visual Assessment of Exfoliation Corrosion Susceptibility of 5XXX Series Aluminium Alloys (ASSET Test)*

ASTM G67, *Standard Test Method for Determining the Susceptibility to Intergranular Corrosion of 5XXX Series Aluminium Alloys by Mass Loss After Exposure to Nitric Acid (NAML Test)*

ASTM B928, *Standard Specification for High Magnesium Aluminium Alloy Sheet and Plate for Marine Service*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12258-1:1998 and the following 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

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

### 3.2

#### **nominal thickness**

thickness of the product outside the raised areas

NOTE It does not include the height of the raised pattern.