SLOVENSKI STANDARD
oSIST prEN 485-2:2026

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Aluminij in aluminijeve zlitine - Pločevina, trakovi in plošče - 2. del: Mehanske lastnosti

Aluminium and aluminium alloys - Sheet, strip and plate - Part 2: Mechanical properties

Aluminium und Aluminiumlegierungen - Bänder, Bleche und Platten - Teil 2: Mechanische Eigenschaften

Aluminium et alliages d'aluminium - Tôles, bandes et tôles épaisses - Partie 2 : Caractéristiques mécaniques

Ta slovenski standard je istoveten z: **prEN 485-2**

ICS:

77.150.10	Aluminijski izdelki	Aluminium products

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EUROPEAN STANDARD

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English Version

Aluminium and aluminium alloys - Sheet, strip and plate - Part 2: Mechanical properties

Aluminium et alliages d'aluminium - Tôles, bandes et tôles épaisses - Partie 2 : Caractéristiques mécaniques

Aluminium und Aluminiumlegierungen - Bänder, Bleche und Platten - Teil 2: Mechanische Eigenschaften

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 132.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document has been prepared by Technical Committee CEN/TC 132 “Aluminium and aluminium alloys”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 485-2:2016+A1:2018.

prEN 485-2:2025 includes the following significant technical changes with respect to EN 485-2:2016+A1:2018:

— introduction of Clause 3 as required by last CEN template

— renumbering of tables according to alloy sequence of EN 573-3

— merging of mechanical property values for tempers with identical figures

— introduction of mechanical property requirements for alloy EN AW-3005A

— introduction of mechanical property requirements for alloy EN AW-3105B

— introduction of mechanical property requirements for alloy EN AW-4115A

— modification about minimum thicknesses in for mechanical property requirements of alloy EN AW-5026

— introduction of mechanical property requirements for alloy EN AW-5050A

— introduction of mechanical property requirements for alloy EN AW-6005A

— introduction of mechanical property requirements for alloy EN AW-8006

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*

1 Scope

This document specifies the mechanical properties of wrought aluminium and wrought aluminium alloy sheet, strip and plate for general engineering applications.

It does not apply to semi-finished rolled products in coiled form to be subjected to further rolling (reroll stock) or to special products such as corrugated, embossed, painted, sheets and strips or to special applications such as aerospace, can stock, finstock, for which mechanical properties are specified in separate European Standards.

The chemical composition limits of the alloys are specified in EN 573-3. Temper designations are specified in EN 515.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 13195, *Aluminium and aluminium alloys — Specifications for wrought and cast products for marine applications (shipbuilding, marine and offshore)*

EN ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)*

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 (NAMLT Test)*

3 Terms and definitions

No terms and definitions are listed in this document.

4 Requirements

The mechanical properties shall be according to Clause 4 or those agreed upon between supplier and purchaser and stated on the order document.

Rounding for expression of test results to determine compliance with the mechanical properties specified in this document shall be according to Annex A.

NOTE Regarding the chemical composition, application and form of products for alloy EN AW-4115A, see Annex B.

5 List of alloys with mechanical property limits

5.1 General

Table 1 to Table 56 contain mechanical property limits values obtained by tensile testing according to EN ISO 6892-1 after sampling and after sample preparation according to EN 485-1.

They also contain values of bend radius and hardness following sampling and test methods as described in EN 485-1. These values are for information only.

For some alloys they contain provisions related to inter-granular corrosion, exfoliation corrosion or stress corrosion testing, see also EN 485-1.

5.2 Elongation

The $A_{50\,mm}$ value is the elongation measured over a gauge length of 50 mm and expressed in percent.

The A value for elongation is the elongation measured over a gauge length of 5,65 $\sqrt{S_o}$ (where S_o is the initial cross-sectional area of the test-piece), and expressed in percent.

5.3 List of alloys and their mechanical properties