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Roofing and cladding products from metal sheet - Specification for fully supported products of aluminium sheet

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/19

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EUROPEAN STANDARD

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Supersedes EN 507:1999

English Version

Roofing and cladding products from metal sheet - Specification for fully supported products of aluminium sheet

Produits de couverture et bardage en tôle métallique -
Spécification pour les produits de couverture en tôle
d'aluminium totalement supportés

Dachdeckungs- und Wandbekleidungs-elemente aus
Metallblech - Festlegungen für vollflächig unterstützte
Bedachungs-elemente aus Aluminiumblech

This European Standard was approved by CEN on 26 May 2019.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

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

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

EN 507:2019 (E)

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European foreword

This document (EN 507:2019) has been prepared by Technical Committee CEN/TC 128 “Roof covering products for discontinuous laying and products for wall cladding”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

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 507:1999.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

In comparison to the previous edition following technical changes were made:

- scope of the standard has been extended to cladding products;
- reference has been added to anodised aluminium sheets;
- list aluminium alloys suitable without further proof provided their properties conform to the values given in the respective material standards (EN 485 or EN 1396) as well as concerning organic coatings suitable for application to aluminium substrates within the scope of this standard have been changed;
- Annex A concerning the national A-deviations was deleted.

These changes or additions can be found in the following Clauses and subclauses: 1; 2; 3.1.2; 3.1.3; 3.1.5; 3.1.6; 3.1.7; 3.2; 4.1; 4.2.1; 4.2.2; 4.2.3; 4.3.3; 5.1; 5.2.1; 5.2.2.2 and 7.3.

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

EN 507:2019 (E)**Introduction**

Figure 1 indicates the position of this standard in the CEN framework of standards concerning roofing and cladding products of metal sheet.

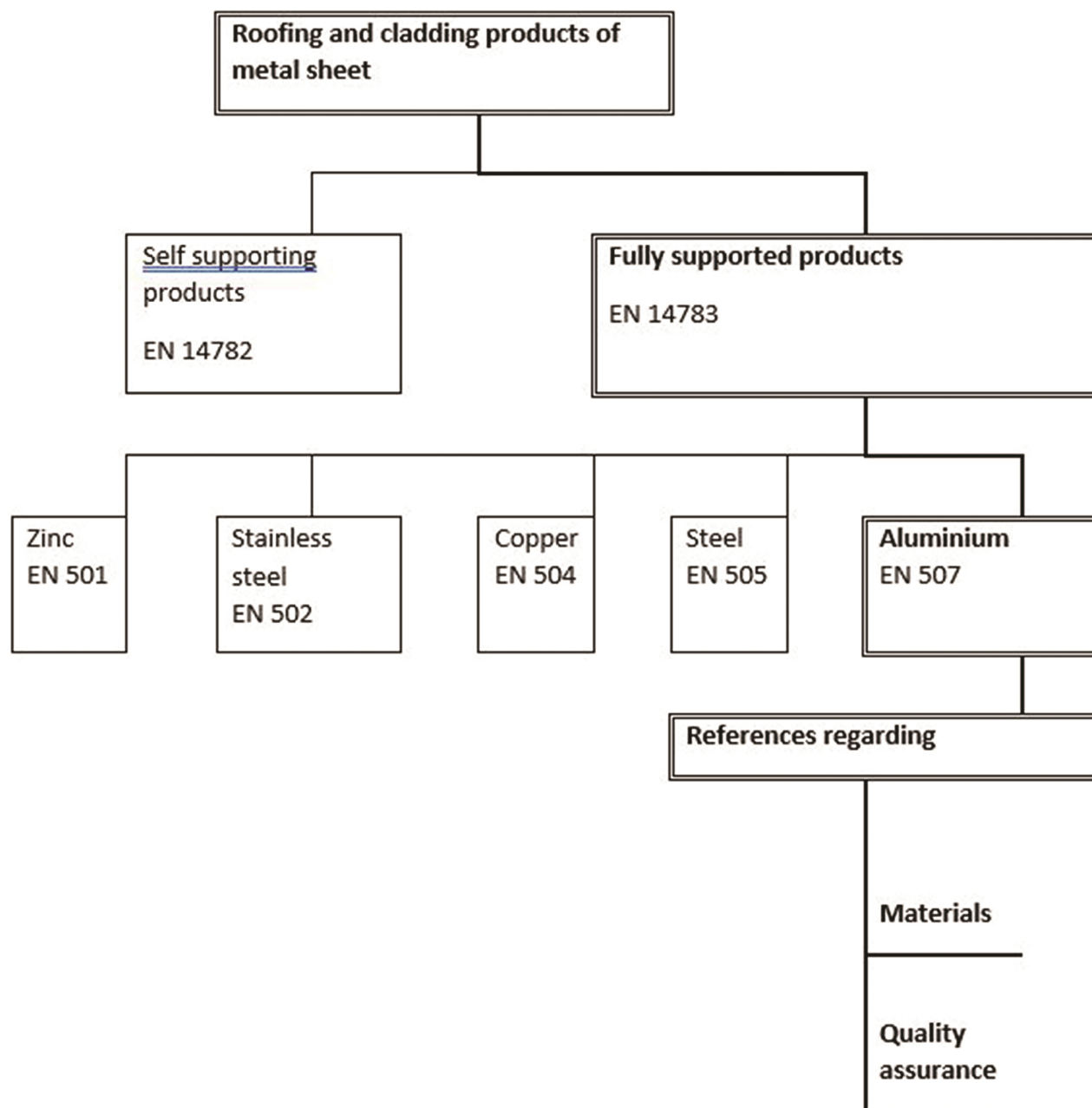


Figure 1 — Framework of standards

In this standard the performance of the product has been defined in terms of a number of type tests.

The performance of a roof or cladding constructed with these products depends not only on the properties of the product as it is required by this document, but also on the design, construction and performance of the roof or the cladding as a whole in relation to the environment and conditions of use.

Metallic coated aluminium sheet can be easily fabricated. It can be sheared, punched, pressed, drawn, folded, roll-formed without difficulty within the given limits of the properties listed in the respective material specifications.

Coil coated sheet can be fabricated like metallic coated aluminium sheet in most applications, but minimum bend radius, design of forming tools, process temperature, etc. are chosen according to material properties.

EN 507:2019 (E)**1 Scope**

This document specifies requirements for roofing and cladding products used for assembly into coverings for wall claddings, linings and pitched roofs, made from aluminium sheet with or without additional surface treatment (organic coating or anodising).

This document establishes general characteristics, definitions and labelling of the products, together with requirements for the materials from which the products can be manufactured. It is intended to be used either by manufacturers to ensure that their products comply with the requirements or by purchasers to verify that the products comply before they are despatched from the factory. It specifies the requirements for products which enable them to meet all normal service conditions. Products can be prefabricated or semi-formed products as well as strip, coil and sheet for on-site-formed applications (e.g. standing seam roofs).

This document applies to all discontinuously laid and fully supported roofing and cladding products made of aluminium sheets. No requirements for supporting construction, design of roof system and execution of connections and flashings are included.

This document does not apply to self-supporting aluminium sheets that are covered by EN 508-2.

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

EN 485-2, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 2: Mechanical properties*

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

EN 508-2, *Roofing products from metal sheet — Specification for self-supporting products of steel, aluminium or stainless steel sheet — Part 2: Aluminium*

EN 1396, *Aluminium and aluminium alloys — Coil coated sheet and strip for general applications — Specifications*

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

EN ISO 7599, *Anodizing of aluminium and its alloys — Method for specifying decorative and protective anodic oxidation coatings on aluminium (ISO 7599)*

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