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BSI Standards Publication

Roofing and cladding products from metal sheet – Specification for self-supporting products of steel, aluminium or stainless steel sheet

Part 2: Aluminium

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National foreword

This British Standard is the UK implementation of EN 508-2:2019. It supersedes BS EN 508-2:2008, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/542/5, Sheet roof and wall coverings.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Roofing and cladding products from metal sheet - Specification for self-supporting products of steel, aluminium or stainless steel sheet - Part 2: Aluminium

Produits de couverture et bardage en tôle métallique -
Spécification pour les plaques de couverture en tôle
d'acier, d'aluminium ou d'acier inoxydable - Partie 2 :
Aluminium

Dachdeckungs- und Wandbekleidungs-elemente aus
Metallblech - Spezifikation für selbsttragende
Bedachungs-elemente aus Stahlblech, Aluminiumblech
oder nichtrostende Stahlblech - Teil 2: Aluminium

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.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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Contents		Page
European foreword.....		4
Introduction		5
1	Scope.....	6
2	Normative references.....	6
3	Terms and definitions, symbols and abbreviations	6
4	Requirements	13
4.1	General.....	13
4.2	Materials.....	13
4.2.1	Aluminium.....	13
4.2.2	Organic coatings	14
4.2.3	Anodizing	14
4.3	Products.....	15
4.3.1	Mechanical resistance	15
4.3.2	Calculation and tests of mechanical resistance.....	15
4.3.3	Dimensions.....	15
4.3.4	Dimensional tolerances for the profiled sheet.....	15
4.3.5	Safety in case of fire.....	16
5	Test methods	16
5.1	Material properties	16
5.2	Surface properties	16
5.3	Structural properties.....	16
6	Designation.....	17
7	Marking, labelling, packaging, special ordering conditions, transport, storage and handling.....	17
7.1	Marking and labelling.....	17
7.2	Packaging and special ordering conditions.....	17
7.3	Transport, storage and handling.....	17
Annex A (normative) Dimensional tolerances		19
A.1	Tolerances for trapezoidal sheets.....	19
A.1.1	General.....	19
A.1.2	Depth of profile	19
A.1.3	Depth of stiffeners	20
A.1.4	Pitch	20
A.1.5	Widths of crown and valley	21
A.1.6	Cover width	21
A.1.7	Radius of bends.....	22
A.1.8	Deviation from straightness.....	23
A.1.9	Deviation from squareness.....	24

This is a preview of "BS EN 508-2:2019". [Click here to purchase the full version from the ANSI store.](#)

A.1.10	Length	25
A.1.11	Deviation of side lap	26
A.1.12	Curve radius and angles	26
A.2	Tolerances for sinusoidal profiles.....	27
A.3	Tolerances on tiles	27
A.3.1	General	27
A.3.2	Depth of tile	28
A.3.3	Web angular displacement (Figure A.12)	28
A.3.4	Pitch.....	28
A.3.5	Width of crown and valley (Figure A.14)	29
A.3.6	Cover width.....	29
A.3.7	Radius of bends	30
A.3.8	Deviation from straightness	31
A.3.9	Deviation from squareness	31
A.3.10	Length	32
A.3.11	Contraction or bulging.....	32
A.4	Methods for measuring profiles	32
A.4.1	General	32
A.4.2	Depth of profile.....	33
A.4.3	Depth of stiffeners	33
A.4.4	Pitch.....	33
A.4.5	Width of crown and valley.....	34
A.4.6	Cover width.....	35
A.4.7	Radius of bends	35
A.4.8	Straightness	35
A.4.9	Squareness	35
A.4.10	Length	35
A.4.11	Side laps	35
A.4.12	Side lap ripple	36
Annex B (informative)	Test methods for concentrated load	38
Bibliography	39

This is a preview of "BS EN 508-2:2019". [Click here to purchase the full version from the ANSI store.](#)

European foreword

This document (EN 508-2:2019) has been prepared by Technical Committee CEN/TC 128 "Roof covering 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 508-2:2008.

EN 508 *Roofing and cladding products from metal sheet - Specification for self-supporting products of steel, aluminium or stainless steel sheet* consists of the following parts:

- Part 1: *Steel*;
- Part 2: *Aluminium*;
- Part 3: *Stainless steel*.

In comparison with EN 508-2:2008, the scope of the standard has been extended to cladding products. Reference has been added to anodised aluminium sheets as well as to the A1 EU-classification without further testing of aluminium products in accordance with Commission decision 2010/737/EC.

These changes or additions can be found in the following Clauses and subclauses: Clause 1; Clause 2; 3.1.1; 4.2.1; 4.2.3; 4.3.1; 4.3.5; 4.3.5.2; 4.3.5.3; 5.3; Clause 6 and the Bibliography.

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.

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Introduction

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

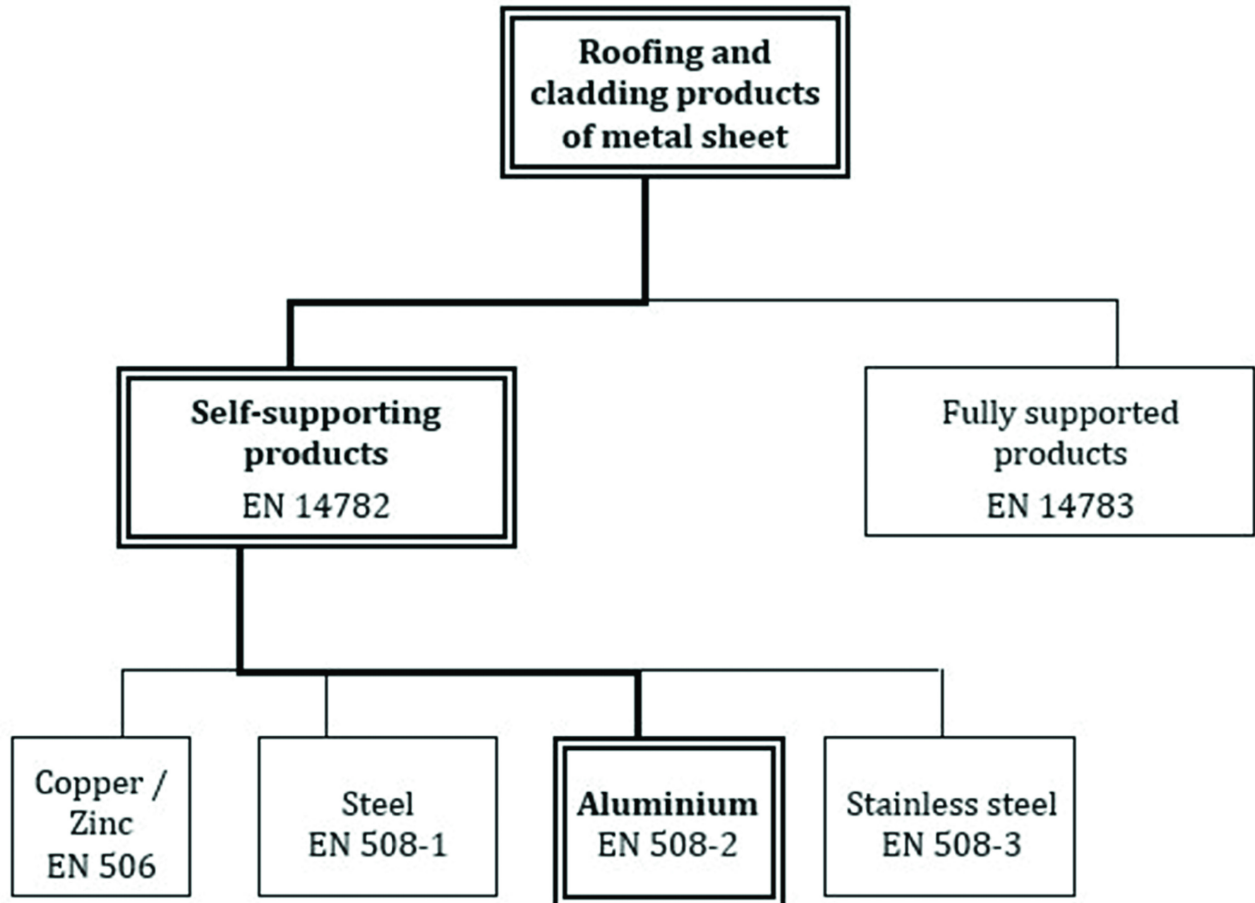


Figure 1 — Framework of standards

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

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

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1 Scope

This part of EN 508 specifies requirements for self-supporting external profiled sheets for roof covering, wall cladding, lining and liner tray products for discontinuous laying made from aluminium sheet with or without surface treatment (additional organic coatings or anodising).

This document establishes general characteristics, definitions, classifications and labelling for 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 made available on the market before being despatched from the factory. It specifies the requirements for products which enable them to meet all normal service conditions.

This document applies to all discontinuously laid self-supporting external profiled sheets for roof covering, wall cladding, lining and liner trays with the exception of tiles with a surface area less than 1 m² and produced by stamping. These profiled roof sheets are designed to keep wind, rain and snow out of the building, and to transfer any resultant loads and infrequent maintenance loads to the structure.

This document does not cover products for structural purposes, i.e. it does cover products used in structural class III (according to EN 1999-1-4), it does not cover products used in constructions of Structural Classes I and II (according to EN 1999-1-4) intended to contribute to the global or partial stability of the building structure by providing racking resistance or resistance of permanent static loads (excluding self-weight of the metal sheet).

No requirements for supporting construction, design of roof system and execution of connections and flashings are included.

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

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

EN 14782, *Self-supporting metal sheet for roofing, external cladding and internal lining — Product specification and requirements*

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

3 Terms and definitions, symbols and abbreviations

3.1 General

For the purposes of this document, the terms and definitions given in EN 485-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>