

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)



BSI Standards Publication

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

Part 3: Stainless steel

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN 508-3:2021. It supersedes BS EN 508-3:2008, which is withdrawn.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 committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2021
Published by BSI Standards Limited 2021

ISBN 978 0 539 12354 8

ICS 91.060.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2021.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)

EUROPÄISCHE NORM

October 2021

ICS 91.060.20

Supersedes EN 508-3:2008

English Version

Roofing and cladding products from metal sheet - Specification for self-supporting products of steel, aluminium or stainless steel sheet - Part 3: Stainless steel

Produits de couverture et bardage en tôle métallique -
Spécification pour les produits autoportants en tôle
d'acier, d'aluminium ou d'acier inoxydable - Partie 3 :
Acier inoxydable

Dachdeckungs- und Wandbekleidungs-elemente aus
Metallblech - Spezifikation für selbsttragende
Dachdeckungsprodukte aus Stahlblech,
Aluminiumblech oder nichtrostende Stahlblech - Teil 3:
Nichtrostender Stahlblech

This European Standard was approved by CEN on 11 July 2021.

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
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions, symbols and abbreviations	6
3.1	General	6
3.2	Materials	6
3.3	Profile definitions	7
3.4	Geometry	9
3.5	Symbols and abbreviations	12
4	Requirements	12
4.1	General	12
4.2	Materials	12
4.2.1	Grades	12
4.2.2	Chemical composition	13
4.2.3	Physical properties	13
4.2.4	Surface finishes of stainless steel	13
4.2.5	Tin coated stainless steel	13
4.2.6	Organic coated stainless steel	14
4.3	Products	14
4.3.1	Mechanical resistance	14
4.3.2	Design (calculation and tests) of mechanical resistance	14
4.3.3	Dimensions	15
4.3.4	Dimensional tolerances for the profiled sheets	15
4.3.5	Safety in case of fire	15
5	Test methods	16
5.1	Material properties	16
5.2	Mechanical properties	16
6	Designation	16
7	Marking, labelling, packaging	16
7.1	Marking and labelling	16
7.2	Packaging and special ordering conditions	17
7.3	Transport, storage and handling	17
Annex A (informative) Physical properties		18
Annex B (normative) Dimensional tolerances		19
Annex C (informative) Test methods for concentrated load		39
Bibliography		40

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)

European foreword

This document (EN 508-3:2021) 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 April 2022, and conflicting national standards shall be withdrawn at the latest by April 2022.

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 508-3:2008.

In comparison with EN 508-3:2008, the following technical changes have been made:

- scope of the document has been extended to cladding products;
- grades have been added;
- clarification has been done about tolerances of liner trays.

These changes or additions can be found in the following clauses and subclauses: Clause 1; Clause 2; 3.2.3; 4.2.1; 4.2.4; 4.3.5; 4.3.5.2; 4.3.5.3; Annex A and the Bibliography.

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.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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.

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)

Introduction

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

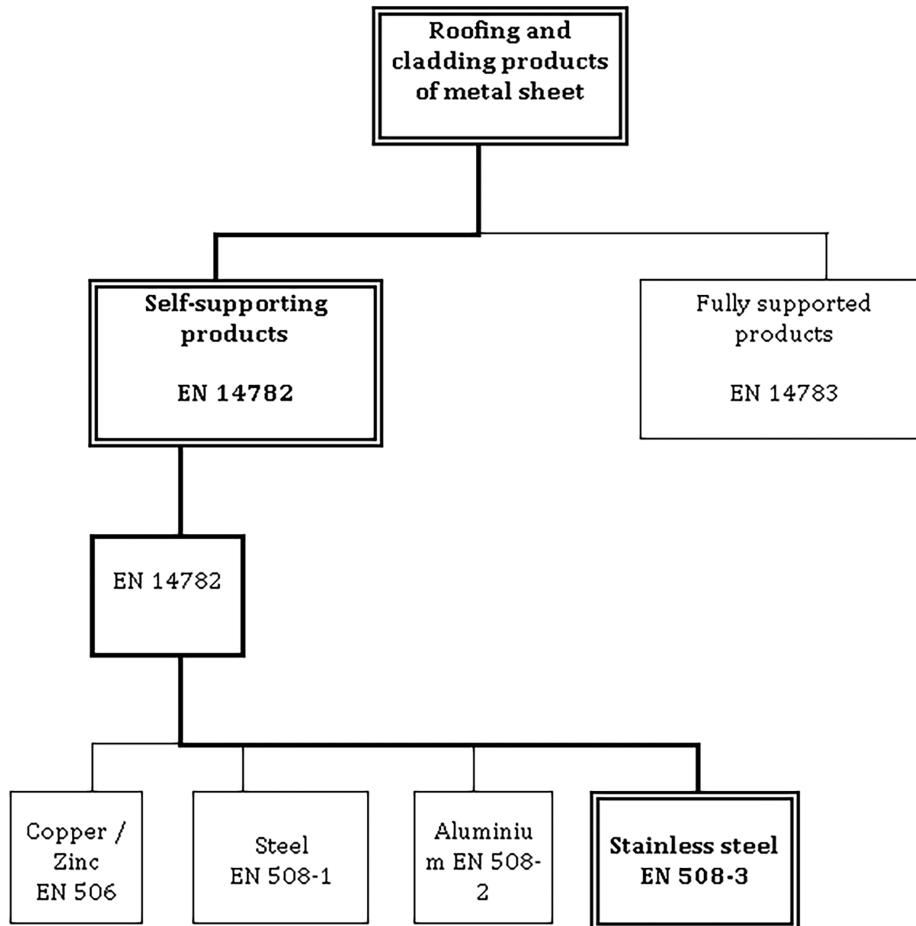


Figure 1 — Framework of standards

In this document the performance of the product has been defined in terms of calculation and 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 required by this document, but also on the design, construction and performance of the roof or cladding as a whole in relation to the environment and conditions of use.

This is a preview of "BS EN 508-3:2021". [Click here to purchase the full version from the ANSI store.](#)

1 Scope

This part of EN 508 specifies requirements for self-supporting products for roof covering, wall cladding, lining, liner tray and tile products for discontinuous laying made from stainless steel sheets with or without additional metallic and/or organic coatings. Sheets intended to be used with insulation and membranes are also covered.

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 dispatched 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, liner trays and tile products 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 1993-1-3), it does not cover products used in constructions of structural classes I and II (according to EN 1993-1-3) intended to contribute to the global or partial stability of the building structure by providing racking resistance or resistance to permanent static loads (excluding self-weight of the metal sheet).

No requirements for supporting construction, design of roof or cladding, lining, tile 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 10088-1, *Stainless steels - Part 1: List of stainless steels*

EN 10088-4, *Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes*

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

EN ISO 9445-1, *Continuously cold-rolled stainless steel - Tolerances on dimensions and form - Part 1: Narrow strip and cut lengths (ISO 9445-1)*

EN ISO 9445-2, *Continuously cold-rolled stainless steel - Tolerances on dimensions and form - Part 2: Wide strip and plate/sheet (ISO 9445-2)*