

Plekist täielikult toetatavad katuse- ja seinakatteelemendid. Spetsifikatsioon ja nõuded

Fully supported metal sheet and strip for roofing, external cladding and internal lining - Product specification and requirements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 14783:2013 sisaldab Euroopa standardi EN 14783:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 14783:2013 consists of the English text of the European standard EN 14783:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.05.2013.	Date of Availability of the European standard is 01.05.2013.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 77.140.50, 77.150.01, 91.060.10, 91.060.20

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:
Aru 10, 10317 Tallinn, Eesti; www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:
Aru 10, 10317 Tallinn, Estonia; www.evs.ee; phone 605 5050; e-mail info@evs.ee

English Version

Fully supported metal sheet and strip for roofing, external
cladding and internal lining - Product specification and
requirements

Tôles et bandes métalliques totalement supportées pour
couverture, bardages extérieur et intérieur - Spécification
de produit et exigences

Vollflächig unterstützte Dachdeckungs- und
Wandbekleidungselemente für die Innen- und
Außenanwendung aus Metallblech - Produktspezifikation
und Anforderungen

This European Standard was approved by CEN on 24 February 2013.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Requirements	6
4.1 Materials	6
4.2 Nominal thickness	6
4.3 Water permeability.....	7
4.4 Dimensional change.....	7
4.5 Dimensional tolerances	7
4.6 Vapour and air permeability	7
4.7 Release of dangerous substances.....	7
4.8 Durability	7
4.9 External fire performance	8
4.10 Reaction to fire.....	8
5 Testing, assessment and sampling methods	8
5.1 External fire performance for roof covering products.....	8
5.1.1 Products deemed to satisfy the requirements for external fire performance	8
5.1.2 Products classified without the need for further testing.....	8
5.1.3 Other products.....	8
5.2 Reaction to fire.....	9
5.2.1 Products satisfying the requirements for reaction to fire Class A1 without the need for testing	9
5.2.2 Other products	9
5.3 Release of dangerous substances.....	9
6 Evaluation of conformity.....	9
6.1 General.....	9
6.2 Initial type testing (ITT)	9
6.2.1 General.....	9
6.2.2 Sampling for ITT.....	12
6.3 Factory production control (FPC)	12
6.3.1 General.....	12
6.3.2 General requirements.....	13
7 Designation	14
8 Product marking	14
Annex A (normative) Multilayer coated steel sheet.....	15
A.1 General.....	15
A.2 Substrate material.....	15
A.3 Specific requirements	15
A.3.1 Minimum nominal values of thickness.....	15
A.3.2 Bituminous coating specification	15
A.3.3 Durability	16
A.4 Freedom from defects	16
Annex B (normative) Test conditions for the reaction to fire tests	17
B.1 General.....	17
B.2 Mounting and fixing conditions of test specimens in the SBI test.....	17
B.2.1 General.....	17

B.2.2	General configuration	17
B.2.3	Securing the overlap vertical joint.....	19
B.2.4	Standard assembly-steel corner flashings	19
B.2.5	Alternative assembly-corner flashings and seals.....	19
B.3	Test arrangement for reaction to fire test according to EN ISO 11925-2.....	19
Annex ZA	(informative) Clauses of this European Standard addressing the provisions of EU	
	Construction Products Directive	20
ZA.1	Scope and relevant characteristics	20
ZA.2	Procedure(s) for the attestation of conformity.....	21
ZA.2.1	Systems of attestation of conformity	21
ZA.2.2	EC Certificate and Declaration of conformity.....	24
ZA.3	CE marking and labelling.....	25
Bibliography		28

Foreword

This document (EN 14783:2013) 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 November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This document supersedes EN 14783:2006.

In comparison to the previous edition, the following sections have been modified: Clause 3, subclause 5.3 and Annex ZA.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the terminology, requirements and test methods for metal coil, strip, and flat sheets and factory made pieces intended for fully supported applications in roofing and wall cladding or lining. It does not apply to products manufactured on site.

This European Standard covers fully-supported aluminium, copper, lead, steel, stainless steel and zinc products with or without coatings, e.g. metallic, organic, inorganic or multi-layer (see Annex A).

This European Standard also includes rules for marking, labelling and evaluation of conformity.

Requirements concerning acoustical and insulation properties are not considered in this European Standard.

This European Standard does not include calculation or design requirements with regards to the works, installation techniques or the performance of the installed products.

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.

CEN/TS 1187, *Test methods for external fire exposure to roofs*

EN 501:1994, *Roofing products from metal sheet — Specification for fully supported roofing products of zinc sheet*

EN 502:2013, *Roofing products from metal sheet — Specification for fully supported roofing products of stainless steel sheet*

EN 504:1999, *Roofing products from metal sheet — Specification for fully supported roofing products of copper sheet*

EN 505:2013, *Roofing products from metal sheet — Specification for fully supported roofing products of steel sheet*

EN 507:1999, *Roofing products from metal sheet — Specification for fully supported roofing products of aluminium sheet*

EN 1427, *Bitumen and bituminous binders — Determination of the softening point — Ring and Ball method*

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*

EN 12588:2006, *Lead and lead alloys — Rolled lead sheet for building purposes*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13501-5, *Fire classification of construction products and building elements — Part 5: Classification using data from external fire exposure to roofs tests*

EN 13823, *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*

EN ISO 6270-1, *Paints and varnishes — Determination of resistance to humidity — Part 1: Continuous condensation (ISO 6270-1)*

EN ISO 6988, *Metallic and other non-organic coatings — Sulphur dioxide test with general condensation of moisture (ISO 6988)*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227)*

EN ISO 11925-2, *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 501:1994, EN 502:2013, EN 504:1999, EN 505:2013, EN 507:1999, EN 12588:2006 and the following apply.

3.1 base material
coated or non-coated coil, strip or flat sheet of metal used for the production of a roofing, cladding or lining product according to this European Standard

4 Requirements

4.1 Materials

The materials for the fully supported metal products specified in this European Standard shall be in accordance with the relevant material standards listed in EN 501, EN 502, EN 504, EN 505, EN 507 and EN 12588. For multilayer coated steel sheet, the requirements as given in Annex A shall apply.

4.2 Nominal thickness

The nominal thickness of the fully supported metal products (excluding any organic, inorganic or multilayer coating) shall be equal to or greater than the values given in Table 1 as specified in EN 501, EN 502, EN 504, EN 505, EN 507 and EN 12588.

Table 1 — Minimum nominal values of thickness

Type of metal	Reference of the European Standard	Specified minimum nominal thickness in mm ^a
Aluminium	EN 507	0,6
Copper	EN 504	0,5
Lead	EN 12588	1,25
Stainless steel	EN 502	0,4
Steel	EN 505	0,5
Zinc	EN 501	0,6
^a Member States of use may require greater thickness than the value shown.		