
Pločevina za prekrivanje streh - Specifikacije za povsem podprte strešne plošče iz pocinkane pločevine

Roofing products from metal sheet - Specification for fully supported roofing products of zinc sheet

Dacheindeckungsprodukte aus Metallblech - Festlegungen für vollflächig unterstützte Bedachungselemente aus Zinkblech

Produits de couverture en tôle métallique - Spécification pour les produits de couverture en feuille de zinc totalement supportés

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Ta slovenski standard je istoveten z: EN 501:1994

ICS:

77.150.60 Svinčeni, cinkovi in kositrovi izdelki Lead, zinc and tin products

91.060.20 Strehe Roofs

SIST EN 501:1998

en

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EUROPEAN STANDARD

EN 501

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1994

UDC 692.415:669.5-41:620.1

Descriptors: Roofs, pitched roofs, metal roofing, zinc, zinc alloys, copper alloys, titanium alloys, metal plates, specifications, characteristics, dimensions, dimensional tolerances, chemical composition, tests, quality control, designation, marking

English version

Roofing products from metal sheet - Specification for fully supported roofing products of zinc sheet

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This European Standard was approved by CEN on 1994-05-18. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by CEN/TC 128 "Roof covering products for discontinuous laying", the secretariat of which is held by ON. 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 1994, and conflicting national standards shall be withdrawn at the latest by November 1994.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

0 INTRODUCTION

Figure 1 indicates the position of this standard in the CEN framework of standards

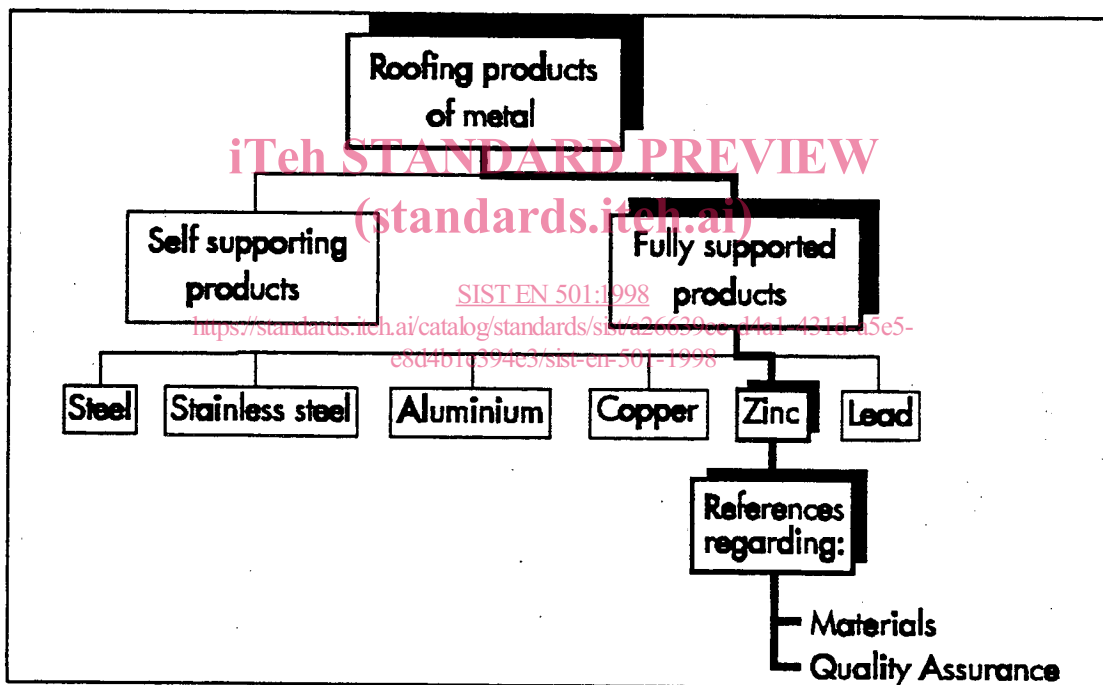


Figure 1. Framework of standards

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

The performance of a roof constructed with these products depends not only on the properties of the product as it is 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.

1 SCOPE

This European Standard specifies requirements for roofing products used for assembly into coverings for pitched roofs, made from Zinc-copper-titanium ¹⁾ alloy sheet with or without additional coatings.

The standard establishes the general characteristics, definitions, labelling and quality control for the products. Products can be prefabricated or semifinished products (e.g. interlocking tiles, slates, flashings) as well as strip, coil, sheet for on-site-formed applications (e.g. standing seam roofs, roll cap).

The standard applies to all discontinuously laid and fully supported roofing made of Zinc-copper-titanium alloy (Zn-Cu-Ti). No requirements for application (e.g. methods of fixing, supporting construction, design of roof system, execution of connections and flashings) are included. It defines the requirements for roofing products made from zinc sheets, slit coils, coils and cut lengths to comply with normal service conditions.

NOTE : The standard deals partly with flat products, partly with formed (prefabricated) products.

Valuable information regarding preformed products is found in prEN 506.

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2 NORMATIVE REFERENCES

SIST EN 501:1998

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- EN 10204 Metallic products - Types of inspection documents.
- prEN 988 Zinc and zinc alloys - Specification for rolled flat products for building
- prEN 506 Roofing products from metal sheet - Specification for self supporting products of copper and zinc sheet.
- EN ... Document from CEN/TC 127, Fire safety in buildings

¹⁾ zinc alloyed with copper and titanium.

3 DEFINITIONS, SYMBOLS AND ABBREVIATIONS

3.1 Definitions

For the purposes of this standard, the following definitions apply.

NOTE: The following names designate the same product:

E : Zinc-copper-titanium

F : Zinc-cuivre-titane

D : Titanzink

3.1.1 Organic coated zinc

Zinc which is painted in a continuous line with rolls for application of the paint, also called coil-coated zinc.

NOTE : Coil coated (continuously organic coated) zinc sheet can be delivered for special architectural reasons.

3.1.2 Fully supported

Installation conditions so that the bottom flat portions of the product are supported by a continuous supporting construction.

3.1.3 Coil, strip or slit coil

Definitions are given in prEN 988.

3.1.4 Sheet or cut length

Definitions are given in prEN 988.

3.1.5 Formed (prefabricated) product

Definitions are given in prEN 506.

3.2 Product geometry

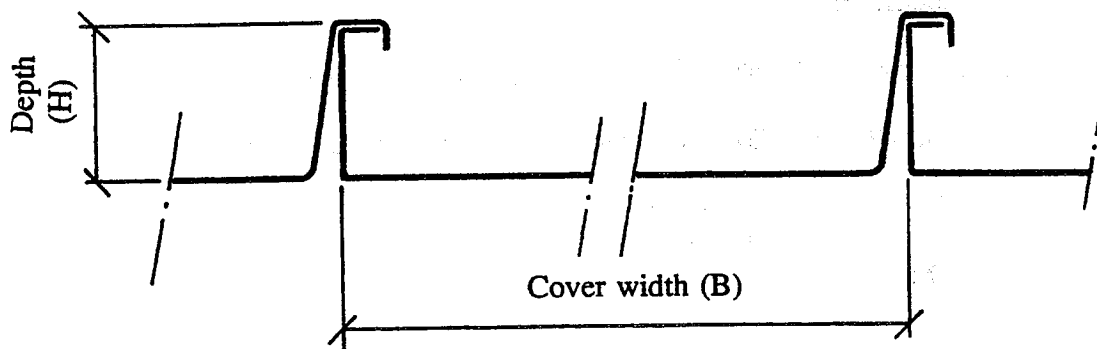
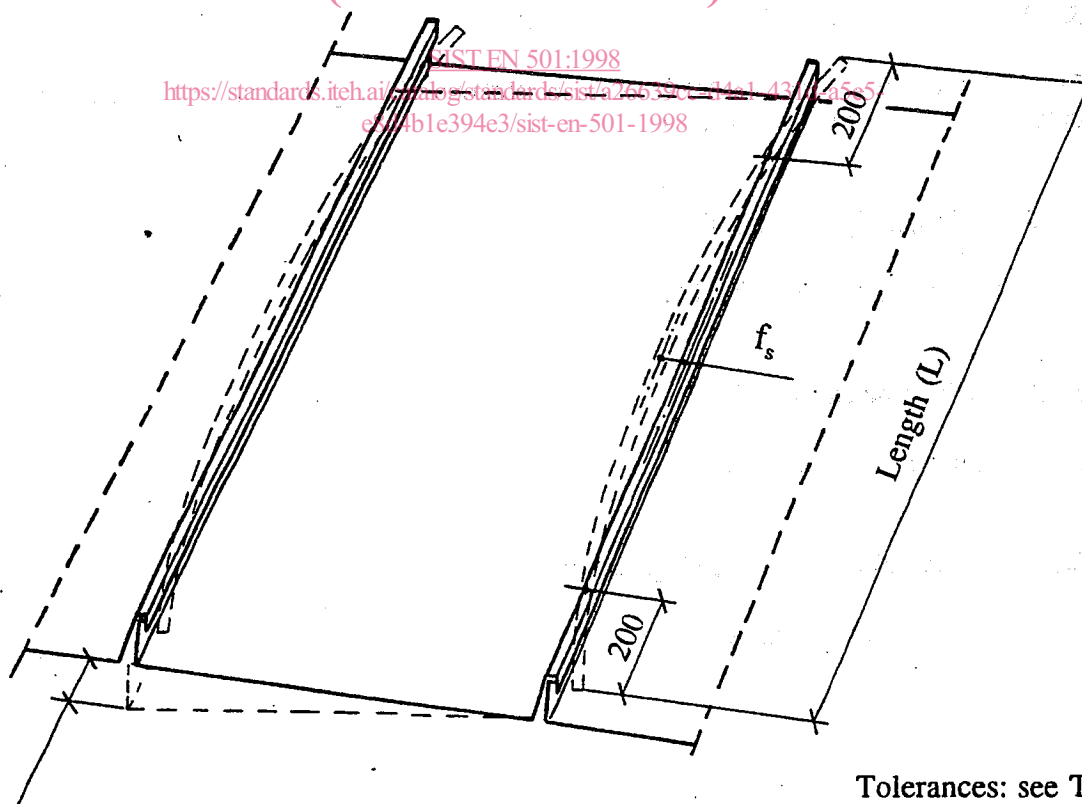


Figure 2. Standing seam construction (as example), section
Before installation

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Tolerances: see Table 1.

Figure 3. Standing seam construction, view
Before installation

3.3 Symbols and abbreviations

The following symbols and abbreviations apply:

Zn-Cu-Ti	Zinc-copper-titanium alloy according to 4.2.
AY	acrylic paint coating
SP	polyester paint coating
SP-SI	silicon-polyester paint coating
PVDF	polyvinylidene fluoride paint coating
PVC(P)	polyvinylchloride(plastisol) coating, applied by coil coating process
PW	preweathered surface by chemical treatment

4 REQUIREMENTS

4.1 General

Elements made of sheets, cut lengths, coils and slit coils can be cut, bent, seamed, formed and soldered without difficulty within the given limits of the properties listed in the respective material specifications.

The product properties depend upon its shape and the material used. Requirements for materials are specified in prEN 988.

The material tests (metal sheet, paint, surface treatment, etc.) are the responsibility of the material manufacturer and will be supplied on request by the product manufacturer.

In this standard account is taken as far as possible of the essential requirements in the Construction Products Directive.

4.2 Material requirements

4.2.1 General

The Zinc-copper-titanium alloy can be either cast in slabs or continuously cast. These shall be rolled into coils. The sheets and cut lengths are cut from coils or slit coils.

Zinc-copper-titanium alloy is suitable for fabrication of fully supported roofing products either in an industrial process or by an on-site process.