



**SLOVENSKI STANDARD
SIST EN 12588:2007**

01-februar-2007

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SIST EN 12588:2000**

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Lead and lead alloys - Rolled lead sheet for building purposes

Blei und Bleilegierungen - Gewalzte Bleche aus Blei für das Bauwesen

Plomb et alliages de plomb - Feuilles de plomb laminé pour le bâtiment
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Ta slovenski standard je istoveten z: EN 12588:2006

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ICS:

77.150.60 Úçã ^} ã&ã \[çã Á [•ã [çã Lead, zinc and tin products
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English Version

Lead and lead alloys - Rolled lead sheet for building purposes

Plomb et alliages de plomb - Feuilles de plomb laminé pour
le bâtiment

Blei und Bleilegerungen - Gewalzte Bleche aus Blei für das
Bauwesen

This European Standard was approved by CEN on 19 November 2006.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 12588:2006) has been prepared by Technical Committee CEN/TC 306 "Lead and lead alloys", the secretariat of which is held by NEN.

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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

This document supersedes EN 12588:1999.

Changes to the previous version, amongst others, are the following:

Chemical composition: Following extensive research carried out by TNO Institution Holland it was found that higher levels of tin content improved the products resistance to surface corrosion. Therefore the impurity maximum has been increased from 0,005 % to 0,05 %.

Safety: The product covered in this standard, by definition is heavy. It has been necessary to provide clear guidance on manual lifting of the product.

Environment: Studies into construction and demolition waste carried out by Enviros Aspinall have shown that the recycling rate of the product is above 90 %. Recommendations have been included within this standard on good management of surplus material during construction.

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

Introduction

In this European 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 building element made with these products depends not only on the properties of the product as it is required by this European standard, but also on the design and quality of the fabrication of the building element and on the design, construction and behaviour of the part of the building concerned in relation to the environment and conditions of use.

The lead sheet supplied shall be specified and used according to the National Code of Practice, depending on service conditions such as exposure to direct sunlight and the area of the piece of lead to be fixed.

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1 Scope

This European Standard specifies the designation, the requirements for chemical composition, surface condition and dimensional tolerances for rolled lead sheet. Lead sheet covered by this European standard is made by the roll deformation process and is intended for roofs, flashings, weatherings, claddings, pre-formed panels, damp-proof courses and similar building work.

No requirements for supporting construction, design of roof or cladding systems and methods of joining are included.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 11014-1, *Safety data sheet for chemical products – Part 1: Content and order of sections*

3 Terms and definitions

For the purposes of this European Standard, the following term and definition applies.

rolled lead sheet

flat product made of lead of rectangular cross-section with uniform thickness and width supplied in coiled or flat form

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4 Designation

4.1 Material number

The material is designated with a number (see 6.1). This material number designation is in accordance with the system given in Annex A (normative).

4.2 Product

The product designation for products to this European standard shall consist of:

- denomination (Lead sheet);
- number of this European Standard (EN 12588);
- nominal thickness in millimetres.

NOTE The material number is not a part of the product designation because this European standard contains only one material.

The derivation of a product designation is shown in the following example.

EXAMPLE

Denomination	Lead sheet	EN 12588	-	1,25
Number of this European Standard				
Nominal thickness in millimetres				

5 Ordering information

In order to facilitate the enquiry, order and confirmation of order procedures between the purchaser and the supplier, the purchaser shall state on his enquiry and/or order the following information:

- a) quantity of product to be delivered (number of pieces);
- b) product designation (according to 4.2);
- c) nominal width in millimetres;
- d) nominal length in metres;
- e) form of delivery (coiled or flat).

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In addition, the purchaser shall also state on the enquiry and/or order if any of the following is required:

- f) declaration of conformity (see clause 8);
- g) special packaging; <https://standards.iteh.ai/catalog/standards/sist/575d419a-f9fc-45d4-bd2d-1d8bcf108303/sist-en-12588-2007>
- h) any other requirements.

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EXAMPLE Ordering details for 10 pieces lead sheet in accordance with EN 12588, nominal thickness 2,50 mm, nominal width 1 000 mm, nominal length 2,0 m, delivered in coils, with a declaration of conformity:

- 10 pieces Lead sheet EN 12588
- 2,50
- nominal width 1 000 mm
- nominal length 2,0 m
- coils
- declaration of conformity

6 Requirements

6.1 Chemical composition

The chemical composition of the material, designated PB810M shall comply with the specified values of Table 1.

Table 1 — Chemical composition of material PB810M

Element	% by mass (m/m)
Copper	0,03 to 0,06
Antimony	max. 0,005
Bismuth	max. 0,100
Silver	max. 0,005
Tin	max. 0,05
Zinc	max. 0,001
Other impurities	max. 0,005
Lead	Remainder

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6.2 Dimensions and tolerances

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6.2.1 Dimensions

The length, width and thickness shall be agreed between the purchaser and the supplier, within the following limits:

thickness: up to and including 6 mm;

width: from 100 mm up to and including 2 500 mm;

length: up to and including 12 m in the coiled form.

6.2.2 Tolerances

6.2.2.1 Thickness

The maximum deviation from the ordered nominal thickness, when measured in accordance with 7.1.2, shall not exceed $\pm 5\%$.

6.2.2.2 Width

The maximum deviation from the ordered nominal width shall not exceed ± 5 mm.

6.2.2.3 Length

The maximum deviation from the ordered nominal length shall not exceed $\begin{matrix} +50 \\ 0 \end{matrix}$ mm.