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Konstruktion, beredning och applicering av utvändig och invändig puts – Del 2: Beaktande av konstruktion och viktiga principer för invändig puts

Design, preparation and application of external rendering and internal plastering – Part 2: Design considerations and essential principles for internal plastering

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Denna standard ersätter SS-EN 13914-2:2005, utgåva 1.

The European Standard EN 13914-2:2016 has the status of a Swedish Standard. This document contains the official English version of EN 13914-2:2016.

This standard supersedes the Swedish Standard SS-EN 13914-2:2005, edition 1.

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EUROPEAN STANDARD

EN 13914-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2016

ICS 91.100.10

Supersedes EN 13914-2:2005

English Version

Design, preparation and application of external rendering and internal plastering - Part 2: Internal plastering

Conception, préparation et mise en oeuvre des enduits
extérieurs et intérieurs - Partie 2: Enduits intérieurs

Planung, Zubereitung und Ausführung von Außen- und
Innenputzen - Teil 2: Innenputze

This European Standard was approved by CEN on 2 January 2016.

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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 13914-2:2016) has been prepared by Technical Committee CEN/TC 125 "Masonry", the secretariat of which is held by BSI.

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 September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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 supersedes EN 13914-2:2005.

The initial draft of this document was prepared by the European section of International Union of Contractors of Plastering, Dry Lining, Stucco and Related Activities (UIEP) at the request of the CEN Technical Sector Board (Resolution No.BTS1/56/1991). It has been revised by CEN/TC 125/WG 5 in conjunction with experts of CEN/TC 241. Relevant data are summarized in a series of tables. This part of EN 13914 applies to the design of plaster made of mortars containing inorganic and organic binders and mineral aggregate¹⁾ which is applied to internal vertical and soffit surfaces of structures.

As this standard is a code-like document as opposed to the more conventional European product standard, it is appropriate to mention that, as with product standards, the use of the verbal form 'shall' denotes a requirement for which verification of compliance has to be able to be demonstrated. Recommendations are denoted by the verbal form 'should' and should be followed unless there is a justifiable reason for not doing so.

It is not the function of this standard to assign responsibility for the design and application of any work or actions mentioned herein to any specific party. Such responsibility is a matter for other documentation associated with the work, e.g. the contract.

It has been assumed in the drafting of this document that the application of its provisions is entrusted to appropriately qualified and experienced persons, for whose guidance it has been prepared.

The content of CEN Technical Reports containing guidance relating to the design, preparation and application of plaster and plastering systems for gypsum (CEN/TR 15124), cement and/or lime (CEN/TR 15125) and polymer plasters (CEN/TR 15123) has been included.

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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) The aggregate can be omitted from mortars made from gypsum plaster or anhydrite binders.

1 Scope

This European Standard deals with the design considerations and essential principles for internal plastering systems and application of plastering systems.

The different parts of the EN 13914 series of standards specify requirements and recommendations for detailing, design and material considerations, the selection of mixes and the application of gypsum plasters, gypsum/lime plasters, lightweight plasters, lime/gypsum-, cement- and cement/lime-based plasters, lime-based plasters, clay plasters, silicate plasters, organic plasters, polymer-modified plasters, etc.

This standard does not deal with the following:

- external finishes;
- painting and/or preparation;
- impregnations;
- structural repair of concrete;
- prefabricated fibre-reinforced plaster elements.

Owing to the many and varied materials and practices and different climatic conditions in Europe it is not possible for certain aspects of the standard to enter into sufficient detail to be fully usable to practitioners in each country. Such guidance to complement, but not alter, any basic European recommendations is given in documentation prepared by each country. Aspects of this European Standard, the basic recommendations of which may need to be complemented, are indicated where they occur by a footnote referencing this clause.

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.

EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*

EN 413-1, *Masonry cement — Part 1: Composition, specifications and conformity criteria*

EN 459-1, *Building lime — Part 1: Definitions, specifications and conformity criteria*

EN 998-1:2010, *Specification for mortar for masonry — Part 1: Rendering and plastering mortar*

EN 1008, *Mixing water for concrete — Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete*

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

EN 10244-1, *Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 1: General principles*

EN 10244-2, *Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 2: Zinc or zinc alloy coatings*

EN 10346, *Continuously hot-dip coated steel flat products for cold forming — Technical delivery conditions*

EN 12878, *Pigments for the colouring of building materials based on cement and/or lime — Specifications and methods of test*

EN 13055-1, *Lightweight aggregates — Part 1: Lightweight aggregates for concrete, mortar and grout*

EN 13139, *Aggregates for mortar*

EN 13279-1, *Gypsum binders and gypsum plasters — Part 1: Definitions and requirements*

EN 13658-1, *Metal lath and beads — Definitions, requirements and test methods — Part 1: Internal plastering*

EN 13914-1:2016, *Design, preparation and application of external rendering and internal plastering — Part 1: External rendering*

EN 15824, *Specifications for external renders and internal plasters based on organic binders*

EN ISO 16120-2, *Non-alloy steel wire rod for conversion to wire — Part 2: Specific requirements for general-purpose wire rod (ISO 16120-2)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 998-1, EN 13279-1, EN 13914-1, EN 13658-1, EN 15824 and the following apply.

3.1

plaster (noun)

mixture of different materials (binders, additives, admixtures, water, aggregates) to obtain a surface finish which is applied internally to walls and ceilings

3.2

plastering (verb)

application of plaster

3.3

gypsum plaster

all kinds of gypsum building plaster, gypsum based building plaster and gypsum-lime building plaster used in buildings

[SOURCE: EN 13279-1:2008, 3.2]

3.4

mineral based plaster

plaster with one or more inorganic binders

3.5

organic plaster

factory made plaster with one or more organic binders in paste or powder form

3.6**designed plaster**

plaster whose composition and manufacturing method is chosen by the producer in order to achieve specified properties (performance concept)

[SOURCE: EN 998-1:2010, 3.3.1, modified]

3.7**prescribed plaster**

plaster made in pre-determined proportions, the properties of which are assumed from the stated proportion of the constituents (recipe concept)

[SOURCE: EN 998-1:2010, 3.3.2, modified]

3.8**plaster coat**

obtained by application of one or more layers with one or more mixes of the same product

3.9**plaster layer**

layer produced by the application of the same plaster in one or more operations, "fresh on fresh"

3.10**plaster system**

plaster coat or sequence of plaster coats to be applied to a background, including the possible use of a support and/or reinforcement and/or pre-treatment

3.11**site made plaster**

plaster batched and mixed on site

3.12**one coat plaster**

plaster applied in one coat which fulfils all the functions of a plastering system

3.13**thin coat**

1 mm to 6 mm plaster coat applied to a surface

3.14**skim/filler coat**

0,1 mm to 5 mm plaster coat applied to a surface

3.15**reinforcement**

material incorporated within a plaster coat to improve resistance to cracking (e.g. welded wire mesh, glass fibre mesh, fibres)

[SOURCE: EN 13914-1:2016, 3.17, modified]

3.16**reinforcing coat**

polymer modified, mineral or organic plaster layer with a mesh embedded into it and applied over an undercoat or defective background which contributes to the minimising of cracks

[SOURCE: EN 13914-1:2016, 3.18, modified]

3.17

final coat

last coat, decorative or not, of a plaster system

[SOURCE: EN 13914-1:2016, 3.19, modified]

3.18

background

surface of a construction element to which a plaster or a plaster system is to be applied

[SOURCE: EN 13914-1:2016, 3.22, modified]

3.19

preparatory treatment

actions to be taken on backgrounds with devices, machines and/or tools, to remove dust and unstable or deleterious material e.g. efflorescence

[SOURCE: EN 13914-1:2016, 3.23]

3.20

key

property of a background or plaster coat which allows the bonding of a plaster without the need for a pre-treatment or carrier

[SOURCE: EN 13914-1:2016, 3.24, modified]

3.21

pre-treatment

application of a material on the background to improve the application properties of the plaster (e.g. spatterdash, primer, bonding agent)

[SOURCE: EN 13914-1:2016, 3.25, modified]

3.22

bond

mechanical and/or chemical adhesion between the plaster and the background

[SOURCE: EN 13914-1:2016, 3.26, modified]

3.23

bonding agent

proprietary material used to provide or improve adhesion of the plaster or plaster system to the background where necessary

[SOURCE: EN 13914-1:2016, 3.27, modified]

3.24

primer

material for pre-treatment of the background

Note 1 to entry: For example primers can be used to reduce suction or to stabilize the surface of the background.