



BSI Standards Publication

Design, preparation and application of external rendering and internal plastering

Part 1: External rendering

National foreword

This British Standard is the UK implementation of EN 13914-1:2016. It supersedes BS EN 13914-1:2005 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/544, Plastering, rendering, dry lining.

A list of organizations represented on this committee can be obtained on request to its secretary.

National Annex NA provides additional information and guidance from the UK committee.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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extérieurs et intérieurs - Partie 1: Enduits extérieurs

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Innenputzen - Teil 1: Außenputz

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European foreword

This document (EN 13914-1:2016) 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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.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 13914-1:2005.

The first draft of this document was prepared by the European Union of Contractors of Plastering, Dry Lining, Stucco and Related Activities (UEEP) at the request of the CEN Technical Sector Board (Resolution No. BTS1/56/1991).

This document gives requirements and recommendations for building details, design and materials considerations, the selection of mixes and the application of renders based on cement, lime or organic binders for use on external backgrounds.

NOTE The term ‘rendering mortar’ is used in the European Standard product specification EN 998-1, but to reflect common usage in relation to this document and for ease of reference the term ‘render’ (noun) has been used.

A rendered finish may be applied to a variety of backgrounds, either to improve resistance to rain penetration and weathering and/or for aesthetic reasons.

For the purposes of this document (except where stated in relation to a specific product standard) the term ‘strength’ should be considered in terms of relative strengths between different types of backgrounds compared with the nominal strengths of prescribed render mixes. Although it may be possible to consider this in terms of compressive strength, this standard deals with aspects of a craft as opposed to design calculations. Therefore ‘strength’ is not considered in terms of numerical values derived from testing. Similar considerations also apply to terms such as ‘movement’, ‘absorbency’ and ‘permeability’ etc. used in this document.

This document refers only to the technical suitability of materials and/or procedures. During the application the user will need to observe any legal obligations relating to health and safety at any stage.

Because this document 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 within 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 people, for whose guidance it has been prepared.

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 Scope

This European Standard specifies requirements and recommendations for the design, preparation and application of

- renders based on cement, lime or other mineral binders, and/or combinations thereof, masonry cement and polymer modified binder based external renderings, in accordance with EN 998-1 or site made renders;
- renders based on organic binders in accordance with EN 15824

on all common types of backgrounds. It includes rendering on both new and old backgrounds and the maintenance and repair of existing work. This document gives guidance on the use of established site, factory and semi-finished factory made renders.

This document does not cover the following:

- a) the use and application of special renders for liquid retaining structures, e.g. coatings, and for backgrounds to cladding systems;
- b) the structural repair of concrete;
- c) the installation of external thermal insulation composite systems (ETICS);
- d) the specification and use of sealants used to seal joints for use with rendering;
- e) the use of gypsum based renders used externally, but their use may be permitted in some countries;

Gypsum based products soften when subject to prolonged moist conditions. The use of such products externally will depend upon the climatic conditions where the render will be used and on the local building traditions. With the exception of some drier countries in southern Europe gypsum based renders are generally not recommended for external use and are therefore not included within the scope of this document. However, their use may be permitted and controlled locally.¹⁾

- f) renders on historical monuments or buildings in protected areas which may be regulated by national codes;
- g) the design and installation of flashings at windowsills and elsewhere.

Because of 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. Appropriate guidance to complement, but not alter any basic European recommendations is given in documentation prepared by each country. Aspects of this European Standard whose basic recommendations may need to be complemented are indicated where they occur by a footnote referencing this clause.

¹⁾ Refer to final paragraph of Clause 1 for further information.