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Methods of test for mortar for masonry – Part 1: Determination of particle size distribution (by sieve analysis)

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Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

Bruk – Del 1: Murbruk – Bestämning av kornfördelning

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Motsvarigheten och aktualiteten i svensk standard till de publikationer som omnämns i denna standard framgår av "Katalog över svensk standard", som ges ut av SIS. I katalogen redovisas internationella och europeiska standarder som fastställts som svenska standarder och övriga gällande svenska standarder.

ICS 91.100.10

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English version

**Methods of test for mortar for masonry – Part 1: Determination
of particle size distribution (by sieve analysis)**

Méthodes d'essai des mortiers pour
maçonnerie – Partie 1: Détermination de la
répartition granulométrique (par tamisage)

Prüfverfahren für Mörtel Mauerwerk –
Teil 1: Bestimmung der Korngrößenverteilung
(durch Siebanalyse)

This European Standard was approved by CEN on 4 September 1998

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, Czech Republic, 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

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Foreword

This European Standard 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 April 1999, and conflicting national standards shall be withdrawn at the latest by September 2000.

This European standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and includes the performance requirements referred to in the Eurocode for masonry Structures.

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

1 Scope

This European Standard specifies two methods of determining the particle size distribution of dry mixed or non hardened wet mixed mortars. The method of wet sieving is applicable to mortars containing normal weight aggregates and the method of dry sieving to mortars containing lightweight aggregates.

This European standard does not cover particle size distribution of separate aggregates which should be determined in accordance with the test method described in European Standard EN 933, nor does it cover mixes containing fibres which cannot be removed before sieving.

2 Normative references

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.

prEN 998-1	Specification for mortar for masonry - Part 1: Rendering and plastering mortar with inorganic binding agents.
prEN 998-2	Specification for mortar for masonry - Part 2: Masonry mortar.
EN 1015-2	Methods of test for mortar for masonry - Part 2: Bulk sampling of mortars and preparation of test mortars.

3 Principle

A series of test sieves (5.2) with increasing aperture size are nested on top of one another on a bottom pan. The sample is placed on the top sieve and the stack of sieves is then agitated until further agitation causes no change in the mass retained on each sieve, which is weighed.

Note: For samples with particles of different densities the sieve analysis will only give the particle size distribution in % of total mass.

4 Symbols

m_r is the mass of the fraction retained on the sieve, (g);

A is the area of the sieve (mm^2);

d is the nominal aperture size of the sieve,(mm);

d_{max} is the maximum aggregate size of the sample, in (mm).