

**Müürimördi katsemeetodid. Osa 19:
Kivistunud krohvimördi veeauru
läbilaskvuse määramine**

Methods of test for mortar for masonry - Part 19:
Determination of water vapour permeability of
hardened rendering and plastering mortars

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1015-19:2005 sisaldab Euroopa standardi EN 1015-19:1998 + A1:2004 ingliskeelset teksti. Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 1015-19:2005 consists of the English text of the European standard EN 1015-19:1998 + A1:2004. This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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ICS 91.100.10

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Descriptors: masonry work, mortars: materials, tests, water vapour flux, water vapour permeability

English version

Methods of test for mortar for masonry - Part 19: Determination
of water vapour permeability of hardened rendering and
plastering mortars

Méthodes d'essai des mortiers pour maçonnerie - Partie
19: Détermination de la perméabilité à la vapeur d'eau des
mortiers d'enduits durcis

Prüfverfahren für Mörtel für Mauerwerk - Teil 19:
Bestimmung der Wasserdampfdurchlässigkeit von
Festmörteln aus Putzmörteln

This European Standard was approved by CEN on 4 September 1998.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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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of an identical text or by endorsement, at the latest by March 1999, and conflicting national standards shall be withdrawn at the latest by September 2000.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 supports the essential requirements of the EU Construction Products Directive (89/106/EEC) 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 a method for determining the steady state water vapour permeability of rendering and plastering mortars in accordance with prEN 998-1 at the upper and lower part of the hygroscopic range. The test method is applicable to mortars from which disc shaped specimens of uniform thickness between 10 mm and 30 mm can be made.

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.

pr EN 998-1	Specification for mortar for masonry - Part 1: Rendering and plastering mortar with inorganic binding agents
pr EN 1015-2	Methods of test for mortar for masonry - Part 2: Sampling of mortars and preparation of test mortars
pr EN 1015-3	Methods of test for mortar for masonry - Part 3: Determination of consistence of fresh mortar (by flow table)
pr EN 1015-11	Methods of test for mortar for masonry - Part 11: Determination of flexural and compressive strength of hardened mortar

3 Principle

Specimens to be tested are sealed on the open mouth of circular cups in which the water vapour pressure is maintained constant at appropriate levels by means of saturated salt solutions. The cups are placed in a temperature controlled environment with a constant water vapour pressure different from that inside the cups. The rate of moisture transfer is determined from the change in weight of the cups under steady state conditions.

4 Definitions and symbols

4.1 Definitions

For the purposes of this standard the following definitions apply:

4.1.1 water vapour permance: The water vapour flux passing through a unit area under equilibrium conditions per unit difference in water vapour pressure between the two sides of the material.

4.1.2 water vapour permeability: The water vapour permance multiplied by the thickness of the specimen.

4.2 Symbols

A	is the area of the open mouth of the test cup, (m^2)
Δp	is the difference in water vapour pressure between the ambient air and the salt solution and is taken from appropriate tables, (Pa)
$\Delta G/\Delta t$	is the water vapour flux, (kg/s)
A	is the water vapour permeance, ($\text{kg}/\text{m}^2 \cdot \text{s} \cdot \text{Pa}$)