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English Version

Methods of test for screed materials - Part 9: Dimensional stability

Méthodes d'essai des matériaux pour chapes - Partie 9
: Stabilité dimensionnelle

Prüfverfahren für Estrichmörtel und Estrichmassen -
Teil 9: Dimensionsstabilität

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 303.

If this draft becomes a European Standard, 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (prEN 13892-9:2024) has been prepared by Technical Committee CEN/TC 303 “Floor screeds and screed materials”, the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13892-9:2018.

prEN 13892-9:2024 includes the following significant technical changes with respect to EN 13892-9:2018:

- a 30 min time interval has been introduced for monitoring length changes in 7.3;
- a minimum duration for the record of length variations has been added for cement-based and calcium sulphate-based screeds in 7.3.

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prEN 13892-9:2024 (E)**1 Scope**

This document specifies a method for determining the dimensional stability (i.e. the shrinkage and swelling) of cementitious screed, calcium sulphate screed, magnesite screed and synthetic resin screed materials made in accordance with EN 13892-1.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 13454-2, *Binders for floor screeds based on calcium sulphate - Part 2: Test methods*

EN 13813, *Screed material and floor screeds — Screed material — Properties and requirements*

EN 13892-1, *Methods of test for screed materials — Part 1: Sampling, making and curing specimens for test*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Symbols and abbreviated terms

DL	dimensional stability ($\mu\text{m}/\text{m}$)
L	horizontal length change (μm)
L_{start}	start of length change (μm)
L_{min}	local minimum in length change curve (μm)
L_{max}	local maximum in length change curve (μm)
L_{end}	end of length change (μm)
$\Delta L = L_{\text{max}} - L_{\text{end}}$	shrinkage (μm)
$\Delta S = L_{\text{start}} - L_{\text{end}} > 0$	swelling (μm)
M	moisture content in percentage
m_{b}	weight at beginning (g)
m_{d}	weight after drying (g)

5 Principle

This test method measures the unrestrained linear movement, called dimensional stability (i.e. shrinkage and swelling), of screed materials in a 1 000 mm curling profile apparatus. A special feature of this test method is the earliest possible commencement of measurements.