



SLOVENSKI STANDARD
kSIST FprEN 1903:2014

01-oktober-2014

Lepila - Preskusna metoda za lepila za polimerne ali gumene talne in stenske obloge - Ugotavljanje sprememb mer po pospešenem staranju

Adhesives - Test method for adhesives for plastic or rubber floor coverings or wall coverings - Determination of dimensional changes after accelerated ageing

Klebstoffe - Prüfverfahren für Klebstoffe für Boden- und Wandbeläge aus Kunststoff oder Gummi - Bestimmung der Maßänderungen nach beschleunigter Alterung

Adhésifs - Méthodes d'essai des adhésifs aux revêtements de sol ou mural en plastique ou en caoutchouc - Détermination des variations dimensionnelles après un vieillissement accéléré

Ta slovenski standard je istoveten z: FprEN 1903

ICS:

83.180 Lepila Adhesives

kSIST FprEN 1903:2014 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
FprEN 1903

August 2014

ICS 83.180

Will supersede EN 1903:2008

English Version

Adhesives - Test method for adhesives for plastic or rubber floor coverings or wall coverings - Determination of dimensional changes after accelerated ageing

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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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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Contents	Page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle.....	4
5 Apparatus and materials.....	4
6 Preparation of test specimens	6
6.1 Conditioning of fibre cement substrate.....	6
6.2 Conditioning of test covering.....	7
6.2.1 Room temperature storage.....	7
6.2.2 Elevated temperature pre-treatment.....	7
6.3 Sampling and conditioning of adhesive.....	7
6.4 Datum points.....	7
6.4.1 Fixing of gauge positions	7
6.4.2 Edge to edge measurements.....	7
6.5 Initial measurements of dimensions prior to bonding.....	7
6.6 Preparation of bonded test specimens	8
6.6.1 Cleaning.....	8
6.6.2 Application of adhesive	8
6.6.3 Bonding	8
7 Procedure	8
7.1 Preconditioning.....	8
7.2 Conditioning cycle (accelerated ageing).....	8
7.3 Subsequent cycles	8
8 Evaluation and expression of results.....	8
9 Test report	9

Foreword

This document (FprEN 1903:2014) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 1903:2008.

The main change in respect to EN 1903:2008 is the change of the roller dimensions.

SAFETY PRECAUTIONS — Persons using this document should be familiar with the normal laboratory practice, if applicable. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any regulatory conditions.

FprEN 1903:2014 (E)

1 Scope

This European Standard specifies a test method that measures the dimensional changes of a plastic or rubber floor or wall covering bonded to a given substrate after accelerated ageing. The term “wall covering” does not include any type of wallpaper.

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 923:2005+A1:2008, *Adhesives - Terms and definitions*

EN 1067, *Adhesives - Examination and preparation of samples for testing*

EN ISO 9142, *Adhesives - Guide to the selection of standard laboratory ageing conditions for testing bonded joints (ISO 9142)*

EN ISO 15605, *Adhesives - Sampling (ISO 15605)*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 923:2005+A1:2008 and the following apply.

3.1

covering

flexible resilient or textile floor covering or wall covering

3.2

adhesive for coverings

adhesive which is intended to produce firm and durable bonds between coverings and various substrates

4 Principle

This test method gives a measure of the suitability of a plastic or rubber floor or wall covering/adhesive combination by monitoring dimensional changes during defined conditioning sequences when bonded to a specific substrate.

5 Apparatus and materials

5.1 Notched trowel (for the shape of the notch, see Figure 1) with dimensions a, b and c specified by the adhesive manufacturer.

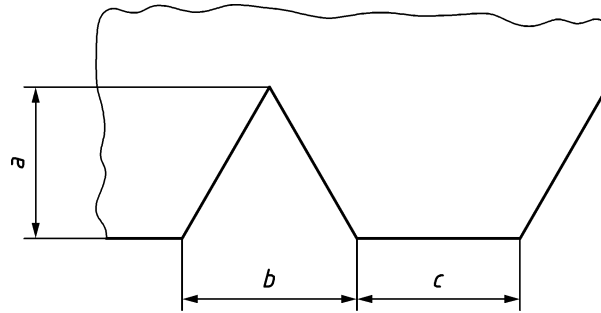


Figure 1 — Shape of notches of notched trowels

5.2 Roller, of width (60 ± 1) mm, diameter (95 ± 1) mm and total mass $(3,50 \pm 0,05)$ kg with a handle at 90° to the axis (as an example, see Figure 2).

Dimensions in millimetres

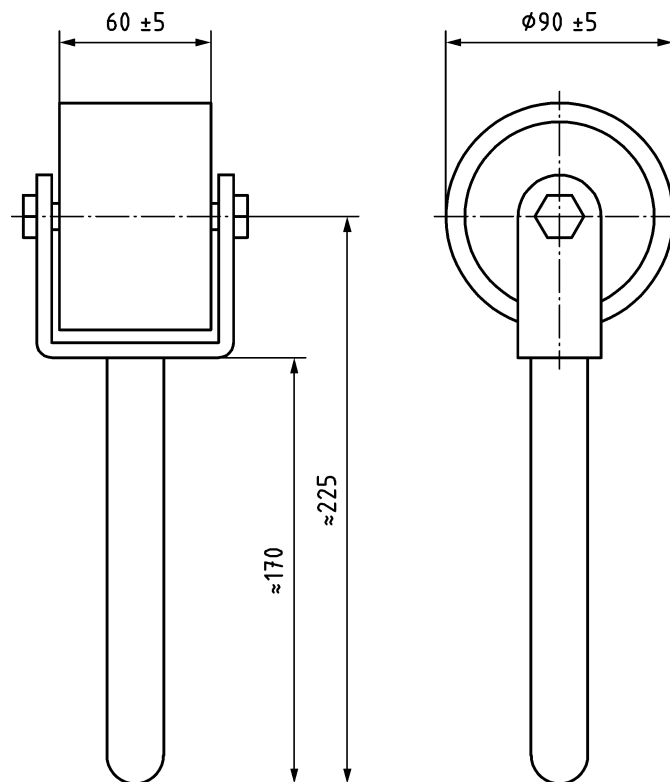


Figure 2 — Roller

5.3 Heating chamber, ventilated and adjustable to a temperature between 20°C and 200°C according to EN ISO 9142.

5.4 Adhesive(s), for testing

5.5 Test covering, three test pieces for each combination with adhesive dimensions of (250 ± 5) mm \times (250 ± 5) mm or (300 ± 5) mm \times (300 ± 5) mm.

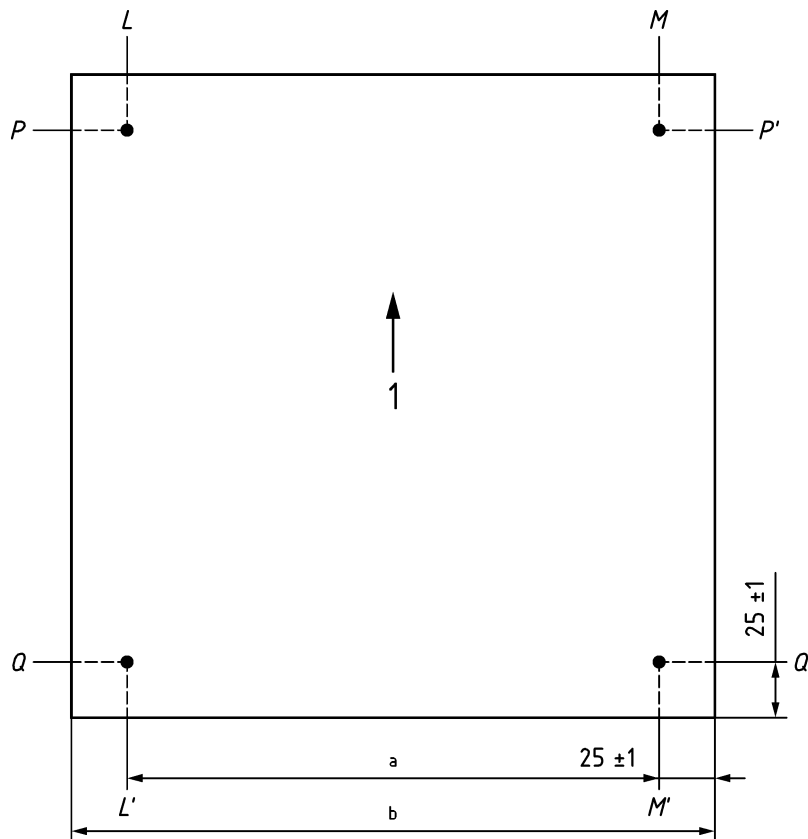
5.6 Substrate, one uncoated fibre cement panel, fully compressed and autoclaved, of thickness $(8,0 \pm 0,5)$ mm for each test piece. Dimensions shall not be greater than 50 mm longer than the distance between the datum points, i.e. each datum point shall not be greater than (25 ± 1) mm from the outer edge (see Figure 3).

FprEN 1903:2014 (E)

NOTE 1 Depending on the source of the fibre cement panels the surfaces can differ with respect to gloss, absorbency and strength. In this case it is recommended to do some preliminary assessment (i.e. peel tests) of the panels to identify the preferred side for testing. The preferred side will be called the upper side of the substrate in this standard.

NOTE 2 If failure of the substrate is the main finding, a suitable primer can be used for testing.

Dimensions in millimetres



Key

- 1 grain direction
- a measurements between studs
- b edge to edge measurements

Figure 3 — Measurements

Where edge to edge measurements are being carried out, recommended dimensions are approximately 300 mm × 300 mm.

5.7 Suitable measuring devices, capable of measuring to the nearest 0,01 mm over a length of either 200 mm or 250 mm, e.g. an elongation meter.

5.8 Adhesives, for fixing gauge studs to the covering surface if required by the measuring method.

6 Preparation of test specimens

6.1 Conditioning of fibre cement substrate

Place the test panels (5.6) in a heating chamber (5.3) for 6 h at $(80 \pm 2) ^\circ\text{C}$. Ensure that the test panels are spaced in such a way as to enable a free passage of air over them. At the end of this period, remove the test