



SLOVENSKI STANDARD
SIST EN 1324:2007
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Adhesives for tiles - Determination of shear adhesion strength of dispersion adhesives

Mörtel und Klebstoffe für Fliesen und Platten - Bestimmung der Haftfestigkeit von Dispersionsklebstoffen

Adhésifs pour carrelage - Détermination de l'adhérence par cisaillement d'un adhésif en dispersion

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Ta slovenski standard je istoveten z: EN 1324:2007

ICS:

83.180	Lepila	Adhesives
91.100.10	Cement. Mavec. Apno. Malta	Cement. Gypsum. Lime. Mortar

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en,de

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English Version

Adhesives for tiles - Determination of shear adhesion strength of dispersion adhesives

Adhésifs pour carrelage - Détermination de l'adhérence par cisaillement d'un adhésif en dispersion

Mörtel und Klebstoffe für Fliesen und Platten - Bestimmung der Haftfestigkeit von Dispersionsklebstoffen

This European Standard was approved by CEN on 21 January 2007.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 1324:2007) has been prepared by Technical Committee CEN/TC 67 “Ceramic tiles”, the secretariat of which is held by UNI.

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 February 2008, and conflicting national standards shall be withdrawn at the latest by February 2008.

This document supersedes EN 1324:1996.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

This European Standard specifies the test method for the determination of the shear adhesion strength of dispersion ceramic tile adhesives.

This European Standard applies to all dispersion ceramic tile adhesives for internal tile installations on walls and floors.

This European Standard does not contain performance requirements or recommendations for the design and installation of ceramic tiles.

NOTE Ceramic tile adhesives can also be used for other types of tiles (natural and agglomerated stones etc.), if they do not adversely affect the stones.

2 Normative references

The following referenced documents are indispensable for the application 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 1067, *Adhesives — Examination and preparation of samples for testing*

EN 14411, *Ceramic tiles — Definitions, classification, characteristics and marking*

EN ISO 15605, *Adhesives — Sampling (ISO 15605:2000)*

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3 Sampling

Take at least 2 kg sample of the adhesive in accordance with EN ISO 15605 and EN 1067.

4 Test conditions

Standard conditions shall be (23 ± 2) °C and (50 ± 5) % relative humidity and a speed of air in the working area less than 0,2 m/s.

5 Test materials

5.1 General

Condition all test materials (adhesive etc.) for at least 24 h under standard conditions.

The adhesive to be tested should be within its shelf life, where this is specified.

5.2 Ceramic tiles

The tiles shall be checked prior to conditioning to ensure that they are new, clean and dry.

The tiles used for this method shall be of:

type P2: glazed porous body tiles in accordance with EN 14411, group BIII, of water absorption (15 ± 3) % by mass, with a thickness in the range 7 mm to 10 mm and a profile back pattern less than 0,25 mm thick, with facial dimensions of (108 ± 1) mm \times (108 ± 1) mm.

6 Apparatus

6.1 Template

A smooth non absorbent frame as shown in Figure 1.

Material: PTFE or similar material with non-stick properties

Hole diameter: $(14,3 \pm 0,1)$ mm

Actual coverage: (50 ± 5) %

Thickness: $(1,5 \pm 0,1)$ mm

Dimensions in millimetres

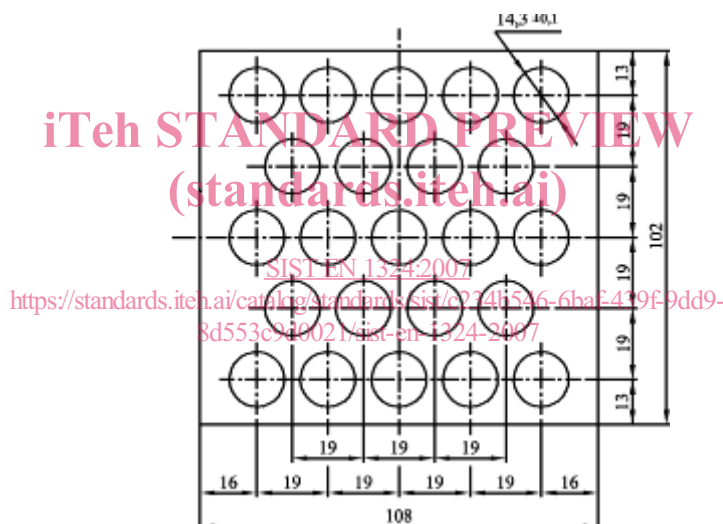


Figure 1 — Template

6.2 Spacers

Spacer rods 0,8 mm diameter, approximately 40 mm long.

6.3 Weight

A weight of less than 100 mm \times 100 mm cross sectional area capable of exerting a force of $(70 \pm 0,15)$ N.

6.4 Loading machine

A test machine with suitable capacity and sensitivity for the test and with a variable testing speed. The machine shall be capable of applying the load to the tile through a suitable jig (see 6.5).

6.5 Shear test jig

A suitable jig used for converting the compressive or tensile load exerted by the testing machine into a shear force. Examples of suitable jigs are shown in Figures 2 and 3.

6.6 Air circulating oven

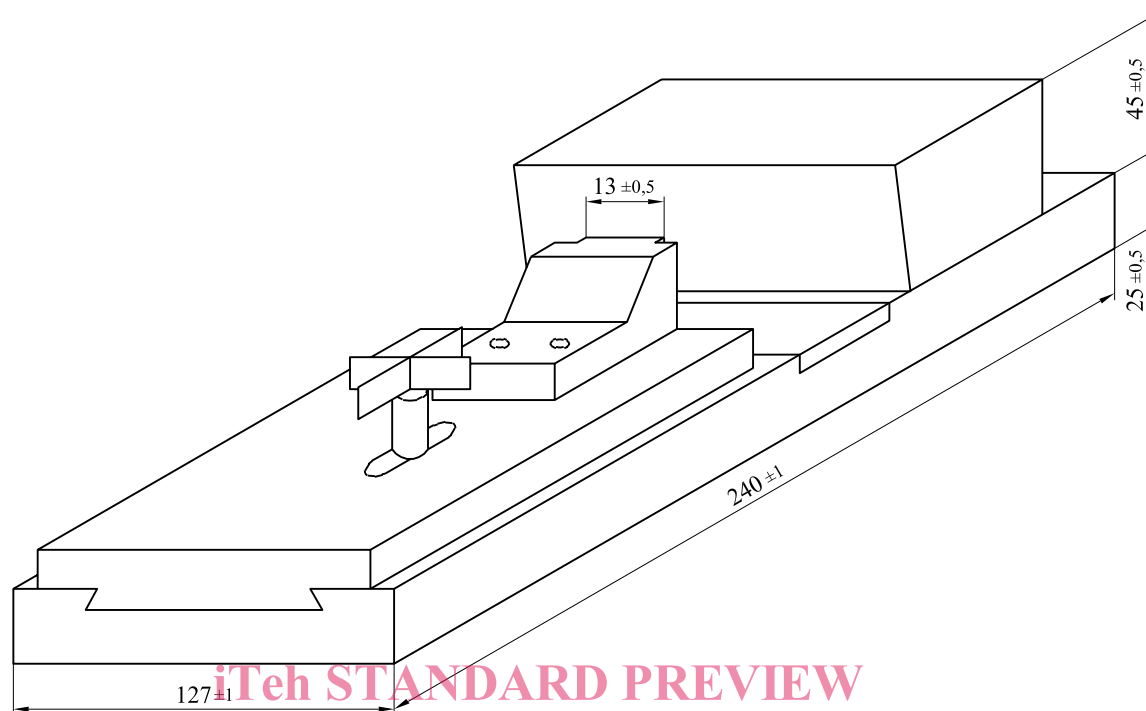
An air circulating oven capable of controlling the temperature to within ± 3 °C.

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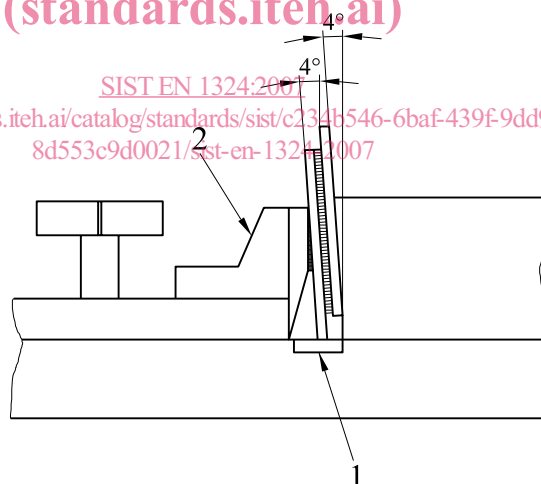
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Dimensions in millimetres



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**Key**

- 1 hardened insert
- 2 adjustable jaws from 12 mm to 45 mm

Figure 2 — Jig for shear adhesion test using a vertical compression machine