

Natural stone test methods — Determination of the dynamic modulus of elasticity (by measuring the fundamental resonance frequency)

The European Standard EN 14146:2004 has the status of a
British Standard

ICS 73.020; 91.100.15

National foreword

This British Standard is the official English language version of EN 14146:2004.

The UK participation in its preparation was entrusted to Technical Committee B/545, Natural stone, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 27 April 2004

Summary of pages

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English version

Natural stone test methods - Determination of the dynamic
modulus of elasticity (by measuring the fundamental resonance
frequency)

Méthodes d'essai pour pierres naturelles - Détermination
du module d'élasticité dynamique (par la mesure de la
fréquence de résonance fondamentale)

Prüfverfahren für Naturstein - Bestimmung des
dynamischen - Elastizitätsmoduls (durch Messung der
Resonanzfrequenz der Grundschiwingung)

This European Standard was approved by CEN on 16 January 2004.

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.

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Foreword

This document (EN 14146:2004) has been prepared by Technical Committee CEN /TC 246, "Natural stones", 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 October 2004, and conflicting national standards shall be withdrawn at the latest by October 2004.

This draft standard is one of the series of draft standards for tests on natural stone.

Test methods for natural stone consist of the following:

EN 1925, *Natural stone test methods – Determination of water absorption coefficient by capillarity*

EN 1926, *Natural stone test methods – Determination of compressive strength*

EN 1936, *Natural stone test methods – Determination of real density and apparent density and of total and open porosity*

EN 12370, *Natural stone test methods – Determination of resistance to salt crystallisation*

EN 12371, *Natural stone test methods - Determination of frost resistance*

EN 12372, *Natural stone test methods – Determination of flexural strength under concentrated load*

EN 12407, *Natural stone test methods – Petrographic examination*

EN 13161, *Natural stone test methods – Determination of flexural strength under constant moment*

EN 13373, *Natural stone test methods – Determination of geometric characteristics on units*

EN 13755, *Natural stone test methods – Determination of water absorption at atmospheric pressure*

EN 13919, *Natural stone test methods – Determination of resistance to ageing by SO₂ action in the presence of humidity*

EN 14066, *Natural stone test methods – Determination of resistance to ageing by thermal shock*

EN 14147, *Natural stone test methods – Determination of resistance to ageing by salt mist*

prEN 14157, *Natural stone test methods – Determination of the abrasion resistance*

EN 14158, *Natural stone test methods – Determination of rupture energy*

EN 14231, *Natural stone test methods – Determination of the slip resistance by means of the pendulum tester*

prEN 14579, *Natural stone test methods – Determination of sound speed propagation*

prEN 14580, *Natural stone test methods – Determination of the static elastic modulus*

prEN 14581, *Natural stone test methods – Determination of thermal expansion coefficient*

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