



BSI Standards Publication

Natural stone test methods – Determination of sensitivity to changes in appearance produced by thermal cycles

National foreword

This British Standard is the UK implementation of EN 16140:2019. It supersedes BS EN 16140:2011, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/545, Natural stone.

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

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

Natural stone test methods - Determination of sensitivity to changes in appearance produced by thermal cycles

Méthodes d'essai pour pierres naturelles -
Détermination de la sensibilité aux changements
d'aspect induits par des cycles thermiques

Prüfverfahren für Naturwerkstein - Bestimmung der
Empfindlichkeit gegen Änderungen des äußeren
Erscheinungsbildes durch thermische Zyklen

This European Standard was approved by CEN on 19 November 2018.

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European foreword

This document (EN 16140:2019) 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of an identical text or by endorsement, at the latest by July 2019, and conflicting national standards shall be withdrawn at the latest by July 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document will supersede EN 16140:2011.

In comparison with the previous edition, the changes concern essentially the interpretation of the modification of aspect after the thermal cycles.

In Annex A, the figures are completed and clarified.

This European Standard is one of the series of standards for tests on natural stone.

Test methods for natural stone consist of the following standards:

- EN 1925, *Natural stone test methods — Determination of water absorption coefficient by capillarity*;
- EN 1926, *Natural stone test methods — Determination of uniaxial 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 crystallization*;
- 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 12440, *Natural stone — Denomination criteria*;
- EN 12670, *Natural stone — Terminology*;
- EN 13161, *Natural stone test methods — Determination of flexural strength under constant moment*;
- EN 13364, *Natural stone test methods — Determination of the breaking load at dowel hole*;
- 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 14066, *Natural stone test methods — Determination of resistance to ageing by thermal shock*;
- EN 14146, *Natural stone test methods — Determination of the dynamic modulus of elasticity (by measuring the fundamental resonance frequency)*;

- EN 14147, *Natural stone test methods — Determination of resistance to ageing by salt mist*;
- EN 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*;
- EN 14579, *Natural stone test methods — Determination of sound speed propagation*;
- EN 14580, *Natural stone test methods — Determination of static elastic modulus*;
- EN 14581, *Natural stone test methods — Determination of linear thermal expansion coefficient*;
- EN 16301, *Natural stone test methods — Determination of sensitivity to accidental staining*.

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