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# Prøvningsmetoder for natursten – Bestemmelse af marmors modstandsevne over for termiske cykler og fugtighedscykler

Natural stone test methods – Determination of resistance of marble to thermal and moisture cycles



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EUROPÄISCHE NORM

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English Version

## Natural stone test methods - Determination of resistance of marble to thermal and moisture cycles

Méthodes d'essai pour pierres naturelles -  
Détermination de la résistance du marbre  
aux cycles thermiques et d'humidité

Prüfverfahren für Naturstein - Bestimmungen  
der Beständigkeit von Marmor bei zyklischer  
Belastung mit Wärme und Feuchte

This European Standard was approved by CEN on 1 August 2022.

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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-CENELEC Management Centre has the same status as the official versions.

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## European foreword

This document ([EN 16306:2022](#)) 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of an identical text or by endorsement, at the latest by March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.

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 supersedes [EN 16306:2013](#).

In comparison with the previous edition, the following technical modifications have been made:

- inclusion of a more detailed description of the test procedure and several clarifications;
- [Clause 10](#), “Precision” has been deleted since data from precision trials is not yet available;
- [Annex C](#) has been amended with the recommendation to increase the number of measurement points in heterogeneous marble.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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# Natural stone test methods – Determination of resistance of marble to thermal and moisture cycles

## 1 Scope

This document specifies a laboratory method for determining the resistance to thermal and moisture cycling of marble intended for the external cladding of building facades.

NOTE Bowing and rapid strength loss is known to occur in some marbles when used as exterior cladding.

## 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 12372](#), *Natural stone test methods – Determination of flexural strength under concentrated load*

[EN ISO 4892-1](#), *Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance (ISO 4892-1)*