Clay roofing tiles for discontinuous laying - Determination of physical characteristics - Part 2: Test for frost resistance

Clay roofing tiles for discontinuous laying -Determination of physical characteristics - Part 2: Test for frost resistance



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 539-
2:2006 sisaldab Euroopa standardi EN
539-2:2006 ingliskeelset teksti.

Käesolev dokument on jõustatud 31.07.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 539-2:2006 consists of the English text of the European standard EN 539-2:2006.

This document is endorsed on 31.07.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This part of this European Standard specifies five test methods for the determination of frost resistance of clay roofing tiles and fittings. The first four test methods (methods A, B, C and D) are applicable according to the requirements described in EN 1304.

Scope:

This part of this European Standard specifies five test methods for the determination of frost resistance of clay roofing tiles and fittings. The first four test methods (methods A, B, C and D) are applicable according to the requirements described in EN 1304.

ICS 91.100.25

Võtmesõnad:

EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 539-2

June 2006

ICS 91.100.25

Supersedes EN 539-2:1998

English Version

Clay roofing tiles for discontinuous laying - Determination of physical characteristics - Part 2: Test for frost resistance

Tuiles de terre cuite pour pose en discontinu -Détermination des caractéristiques physiques - Partie 2 : Essais de résistance au gel Tondachziegel für überlappende Verlegung - Bestimmung der physikalischen Eigenschaften - Teil 2: Prüfung der Frostwiderstandsfähigkeit

This European Standard was approved by CEN on 18 May 2006.

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.

CEN members are the national standards bodies of Austria, Belgium, 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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents			
Foreword			
1	Scope	4	
2	Normative references	4	
3	Terms and definitions	2	
4	Test pieces	7	
5	Test method A		
5 5.1	Principle		
5.2	Apparatus	7	
5.3	Sampling	8	
5.4 5.5	Preliminary treatment		
5.6	Procedure		
5.7	Test report		
6	Test method B	12	
6.1	Principle	12	
6.2	Apparatus	13	
6.3	Sampling		
6.4 6.5	Preliminary treatment Procedure		
6.6	Evaluation of the test results		
6.7	Test report		
7	Test method C	24	
7.1	Principle		
7.2	Apparatus		
7.3 7.4	Sampling Preliminary treatment		
7.4 7.5	Procedure		
7.6	Interpretation of the test results		
7.7	Test report	28	
8	Test method D		
8.1	Principle		
8.2	Apparatus	29	
8.3 8.4	Preliminary treatment		
8.5	Procedure		
8.6	Interpretation of the test results	31	
8.7	Test report		
9	Test method E (European single test method)		
9.1	Principle		
9.2 9.3	Apparatus Test sample		
9.3 9.4	Procedure		
9.5	Evaluation of the test pieces		
9.6	Test report		
Annex	A (normative) Determination and calculation of water absorption	42	
Annov	B (normative). Determination of the dry density by hydrostatic weighing	41	

Foreword

This document (EN 539-2:2006) has been prepared by Technical Committee CEN/TC 128 "Roof covering products for discontinuous laying and products for wall cladding", the secretariat of which is held by IBN/BIN.

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 December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

This document supersedes EN 539-2:1998.

This part of the standard is one of a series of standards concerning clay roofing tiles, the list of which is indicated below:

EN 1304, Clay roofing tiles and fittings — Products definitions and specifications

EN 538, Clay roofing tiles for discontinuous laying — Flexural strength test

EN 1024, Clay roofing tiles for discontinuous laying — Determination of geometric characteristics

This part of EN 539 is preceded by Part 1:

EN 539-1, Clay roofing tiles for discontinuous laying — Determination of physical characteristics — Part 1: Impermeability test

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

1 Scope

This part of this European Standard specifies five test methods for the determination of frost resistance of clay roofing tiles and fittings.

The first four test methods (methods A, B, C and D) are applicable according to the requirements described in EN 1304.

The fifth test method (E) is applicable in all the CEN members in accordance with the requirement of each member state. Each country indicates the level or levels in their national foreword of EN 539-2.

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 1304, Clay roofing tiles for discontinuous laying — Products definitions and specifications

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 pit see definition in EN 1304





3.2 hair crack

superficial crack having a width of not more than 0,20 mm





nascent crack

3.3

crack formation at the edge, only crack penetrating slightly into the interior of the ceramic body

