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Irish Standard
I.S. EN 15732:2012

Light weight fill and thermal insulation products for civil engineering applications (CEA) - Expanded clay lightweight aggregate products (LWA)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15732

October 2012

ICS 91.100.60

English Version

Light weight fill and thermal insulation products for civil engineering applications (CEA) - Expanded clay lightweight aggregate products (LWA)

Matériaux de remplissage légers et produits isolants thermiques pour les applications du génie civil - Produits à base de granulats légers d'argile expansée

Leichte Schütt- und Wärmedämmstoffe für bautechnische Anwendungen (CEA) - Produkte aus Blähton-Leichtzuschlagstoffen (LWA)

This European Standard was approved by CEN on 9 September 2012.

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Contents

Page

Foreword 4

1 Scope 5

2 Normative references 5

3 Terms definitions, symbols, units and abbreviated terms 6
3.1 Terms and definitions 6
3.2 Symbols, units and abbreviated terms 6

4 Requirements 7
4.1 General 7
4.2 For all applications 7
4.3 For specific applications 8
4.4 Other requirements 10

5 Test methods 10
5.1 Sampling 10
5.2 Conditioning 10
5.3 Testing 10

6 Designation code 11

7 Evaluation of conformity 12
7.1 General 12
7.2 Initial type testing 12
7.3 Factory production control 12

8 Marking and labelling 12

Annex A (normative) **Test for mechanical and physical properties of expanded clay LWA –Static Triaxial Compression Test for determination of shear strength properties** 13
A.1 General 13
A.2 Definitions, symbols and abbreviations 13
A.3 Test principle 14
A.3.1 Triaxial apparatus 14
A.3.2 Loading device 14
A.3.3 Confining pressure and vacuum-control device 14
A.3.4 Displacement transducers 15
A.3.5 Calibration 15
A.3.6 Top cap and pedestal 16
A.3.7 Porous discs 16
A.4 Testing procedure 18
A.4.1 Number of test specimens 18
A.4.2 Procedures for compaction of laboratory test specimens 18
A.4.3 Compaction using vibrations 18
A.4.4 Other means of compaction 18
A.5 Test report 18

Annex B (normative) **Test for mechanical and physical properties of expanded clay LWA — Determination of the resistance to cyclic compressive loading** 19
B.1 General 19
B.2 Definitions 19
B.3 Sampling 19
B.4 Test method 19
B.4.1 General 19
B.4.2 Principle 19
B.4.3 Equipment 19

This is a free page sample. Access the full version online.

B.4.4 Preparation of test specimens **21**
B.4.5 Test procedure **21**
B.4.6 Calculations **23**
B.4.7 Expression of the test results **23**
B.5 Report **23**

Annex C (normative) **Test for mechanical and physical properties of expanded clay LWA — Determination of the compressive creep** **25**
C.1 General **25**
C.2 Principles **25**
C.3 Equipment **25**
C.4 Preparation of test specimens **27**
C.5 Testing **27**
C.5.1 Test procedure **27**
C.5.2 Calculations **28**
C.5.3 Expression of results **28**
C.6 Report **28**

Annex D (normative) **Factory production control** **30**

Annex E (informative) **Tabulated $\lambda_{10,dry}$-values of expanded clay LWA in lightweight fill applications** **31**

Annex ZA (informative) **Clauses of this European Standard addressing the provisions of the EU Construction Products Directive** **32**

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Foreword

This document (EN 15732:2012) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

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 April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This standard is the harmonised part satisfying the mandate, the CPD and is the basis for the CE marking, covers the products which are placed on the market.

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

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1 Scope

This European Standard describes the product characteristics and includes procedures for testing, marking and labelling.

This standard specifies the requirements for loose-fill expanded clay lightweight aggregate (expanded clay LWA) products for Civil Engineering Applications excluding the use as thermal insulation in and under buildings which are covered by EN 14063-1. The standard covers the use of expanded clay LWA as lightweight fill and insulation materials in embankments for roads, railways and other trafficked areas and as lightweight backfill for structures.

This standard does not specify the required level of a given property to be achieved by a product to demonstrate fitness for purpose in a particular application. The levels required for a given application are to be found in regulations or non-conflicting standards.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 932-1, *Tests for general properties of aggregates — Part 1: Methods for sampling*

EN 932-2, *Tests for general properties of aggregates — Part 2: Method for reducing laboratory samples*

EN 933-1, *Tests for geometrical properties of aggregates — Part 1: Determination of particle size distribution — Sieving method*

EN 1097-3, *Tests for mechanical and physical properties of aggregates — Part 3: Determination of loose bulk density and voids*

EN 1097-5, *Tests for mechanical and physical properties of aggregates — Part 5: Determination of the water content by drying in a ventilated oven*

EN 1097-6:2000, *Tests for mechanical and physical properties of aggregates — Part 6: Determination of particle density and water absorption*

EN 13055-1:2002, *Lightweight aggregates — Part 1: Lightweight aggregates for concrete, mortar and grout*

EN 13055-2:2004, *Lightweight aggregates — Part 2: Lightweight aggregates for bituminous mixtures and surface treatments and for unbound and bound applications*

EN 13172:2012, *Thermal Insulation products — Evaluation of conformity*

EN 13286-4, *Unbound and hydraulically bound mixtures — Part 4: Test methods for laboratory reference density and water content — Vibrating hammer*

EN 13286-5, *Unbound and hydraulically bound mixtures — Part 5: Test methods for laboratory reference density and water content — Vibrating table*

EN 13286-7, *Unbound and hydraulically bound mixtures — Part 7: Cyclic load triaxial test for unbound mixtures*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire test*

EN 13820, *Thermal insulating materials for building applications — Determination of organic content*

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