



National Standards Authority of Ireland

STANDARD

I.S. EN 13055-2:2004

ICS 91.100.15

**LIGHTWEIGHT AGGREGATES - PART 2:
LIGHTWEIGHT AGGREGATES FOR
BITUMINOUS MIXTURES AND SURFACE
TREATMENTS AND FOR UNBOUND AND
BOUND APPLICATIONS**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Fax: (01) 807 3838

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English version

Lightweight aggregates - Part 2: Lightweight aggregates for bituminous mixtures and surface treatments and for unbound and bound applications

Granulats légers - Partie 2 : Granulats légers pour mélanges hydrocarbonés, enduits superficiels et pour utilisation en couches traitées et non traitées

Leichte Gesteinskörnungen - Teil 2: Leichte Gesteinskörnungen für Asphalte und Oberflächenbehandlungen sowie für ungebundene und gebundene Verwendung

This European Standard was approved by CEN on 23 April 2004.

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

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

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EN 13055-2:2004 (E)

Foreword

This document (EN 13055:2:2004) has been prepared by Technical Committee CEN/TC 154 "Aggregates", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

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 annex ZA, which is an integral part of this document.

Annexes A, B and C are normative. Annex D is informative.

This European Standard forms part of a series of standards for lightweight aggregates, the other part being:

Part 1: Lightweight aggregates for concrete, mortar and grout.

Requirements for other end uses of aggregates will be specified in the following European Standards:

EN 12620, *Aggregates for concrete.*

EN 13043, *Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas.*

EN 13139, *Aggregates for mortar.*

EN 13242, *Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction.*

EN 13383-1, *Armourstone - Part 1: Specification.*

EN 13450, *Aggregates for railway ballast.*

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard specifies the properties of lightweight aggregates and fillers derived thereof obtained by processing natural, manufactured or recycled materials and mixtures of these aggregates for bituminous mixtures and surface treatments and for unbound and hydraulically bound applications other than concrete, mortar and grout.

This European Standard covers lightweight aggregates of mineral origin having particle densities not exceeding 2000 kg/m^3 ($2,00 \text{ Mg/m}^3$) or loose bulk densities not exceeding 1200 kg/m^3 ($1,20 \text{ Mg/m}^3$) including:

- a) natural aggregates;
- b) aggregates manufactured from natural materials and/or from by-products of industrial processes;
- c) by-products of industrial processes;
- d) recycled aggregates.

It provides for the evaluation of conformity of the products to this European Standard.

The requirements specified in this standard may not be relevant to all types of lightweight aggregates. For particular applications the requirements and tolerances can be adapted for the end use.

NOTE Aggregates used in construction should comply with all the requirements of this European Standard. As well as familiar and traditional natural and manufactured aggregates Mandate M/125 "Aggregates" included recycled aggregates and some materials from new or unfamiliar sources. Recycled aggregates are included in the standards and new test methods for them are at an advanced stage of preparation. For unfamiliar materials from secondary sources, however, the work on standardization has only started recently and more time is needed to define clearly the origins and characteristics of these materials. In the meantime such unfamiliar materials when placed on the market as aggregates should comply fully with this standard and national regulations for dangerous substances (see annex ZA) depending upon their intended use. Additional characteristics and requirements can be specified on a case by case basis depending upon experience of use of the product, and defined in specific contractual documents.

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

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

EN 932-5, *Tests for general properties of aggregates — Part 5: Common equipment and calibration.*

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

EN 933-2, *Tests for geometrical properties of aggregates — Part 2: Determination of particle size distribution — Test sieves, nominal size of apertures.*

EN 933-5, *Tests for geometrical properties of aggregates — Part 5: Determination of percentage of crushed and broken surfaces in coarse aggregate particles.*

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