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STANDARD

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12620:2002

+A1:2008,
incorporating corrigendum 2004

First edition
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Aggregates for concrete

ICS 91.100.15, 91.100.30



**Mauritius Standards Bureau
Moka**

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National foreword

This Mauritian Standard is an adoption of European Standard **EN 12620:2002+A1:2008**, incorporating corrigendum **May 2004**, *Aggregates for concrete*. It was adopted by the Mauritius Standards Bureau in 2010 on the recommendation of the **Building and Construction Standards Committee** through its **Subcommittee on Concrete** and approval of the **Standards Council** on 1 September 2010. It was notified in the Government Gazette on **25 September 2010***.

For the purposes of this standard, the following changes should be made:

- (i) the words 'European Standard' should be replaced by 'Mauritian Standard',
- (ii) the 'decimal comma' should be replaced by 'decimal point',
- (iii) the CEN Annex ZA regarding fulfillment of European council Directives has been removed;

*General Notice No. 1844 of 2010

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PREVIEW

Foreword

This document (EN 12620:2002+A1:2008) 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of an identical text or by endorsement, at the latest by October 2008 and conflicting national standards shall be withdrawn at the latest by October 2008.

This document includes Amendment 1, approved by CEN on 2008-02-16.

This document supersedes EN 12620:2002.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{A_1}$ $\triangleleft A_1$.

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags \boxed{AC} $\triangleleft AC$.

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.

$\boxed{A_1}$ This amendment introduces clauses for recycled aggregates. The clauses call up new test methods, prEN 933-11, EN 1744-5, EN 1744-6 and EN 1367-4. These standards are at an advanced stage of preparation. $\triangleleft A_1$

Annexes A, B, E, F and G are informative. Annexes C, D and H are normative.

This standard includes a Bibliography.

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

EN 13043	Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas
EN 13055-1	Lightweight aggregates - Part 1 : Lightweight aggregates for concrete, mortar and grout
prEN 13055-2	Lightweight aggregates - Part 2 : Lightweight aggregates for unbound and bound applications
EN 13139	Aggregates for mortar
prEN 13242	Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction
EN 13383-1	Armourstone - Part 1: Specification
prEN 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, Bulgaria, 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 European Standard specifies the properties of aggregates and filler aggregates obtained by processing natural, manufactured or recycled materials and mixtures of these aggregates for use in concrete. It covers aggregates having an oven dried particle density greater than $2,00 \text{ Mg/m}^3$ ($2\,000 \text{ kg/m}^3$) for all concrete, including concrete in conformity with EN 206-1 and concrete used in roads and other pavements and for use in precast concrete products. **A1** It also covers recycled aggregate with densities between $1,50 \text{ Mg/m}^3$ ($1\,500 \text{ kg/m}^3$) and $2,00 \text{ Mg/m}^3$ ($2\,000 \text{ kg/m}^3$) with appropriate caveats and recycled fine aggregate (4 mm) with appropriate caveats. **AC**

It also specifies that a quality control system is in place for use in factory production control and it provides for the evaluation of conformity of the products to this European Standard.

This standard does not cover filler aggregates to be used as a constituent in cement or as other than inert filler aggregates for concrete.

AC NOTE 1 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 standardisation 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 must comply fully with this standard and national regulations for dangerous substances (see Annex ZA of the standard) depending upon their intended use. Additional characteristics and requirements may be specified on a case by case basis depending upon experience of use of the product, and defined in specific contractual documents. **AC**

NOTE 2 Properties for lightweight aggregates are specified in **A1** EN 13055-1:2002 **A1**.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

A1 *deleted text* **A1**

A1 EN 196-2:2005, *Methods of testing cement — Part 2: Chemical analysis of cement* **A1**

EN 932-3, *Tests for general properties of aggregates — Part 3: Procedure and terminology for simplified petrographic description*

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 933-3, *Tests for geometrical properties of aggregates — Part 3: Determination of particle shape — Flakiness index*

EN 933-4, *Tests for geometrical properties of aggregates — Part 4: Determination of particle shape — Shape index*

EN 933-7, *Tests for geometrical properties of aggregates — Part 7: Determination of shell content — Percentage of shells in coarse aggregates*

EN 933-8, *Tests for geometrical properties of aggregates — Part 8: Assessment of fines — Sand equivalent test*

EN 933-9, *Tests for geometrical properties of aggregates — Part 9: Assessment of fines — Methylene blue test*