



SLOVENSKI STANDARD
kSIST FprEN 16236:2012

01-oktober-2012

Vrednotenje skladnosti (EoC) agregatov - Kontrola proizvodnje v obratu

Evaluation of Conformity (EoC) of Aggregates - Factory Production Control

Ta slovenski standard je istoveten z: FprEN 16236:2012

ICS:

91.100.15 Mineralni materiali in izdelki Mineral materials and
products

kSIST FprEN 16236:2012

en

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
FprEN 16236

July 2012

ICS 91.100.15

English Version

Evaluation of Conformity (EoC) of Aggregates - Factory Production Control

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 154.

If this draft becomes a European Standard, 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.

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Contents

Page

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Evaluation of Conformity	6
4.1 General.....	6
5 Initial type tests.....	6
6 Factory production control.....	6
6.1 General.....	6
6.2 Organisation.....	7
6.2.1 Responsibility and authority	7
6.2.2 Management representative for factory production control	7
6.2.3 Management review.....	7
6.3 Control procedures.....	7
6.3.1 FPC manual	7
6.3.2 Document and data control	7
6.3.3 Sub-contract services	7
6.3.4 Knowledge of the raw material.....	7
6.3.5 Management of production.....	8
6.4 Inspection and tests	8
6.4.1 General.....	8
6.4.2 Equipment	8
6.4.3 Frequency and location of inspection, sampling and tests	9
6.5 Records.....	9
6.6 Control of non-conforming product.....	10
6.7 Handling, storage and conditioning in production areas.....	10
6.8 Transport and packaging.....	10
6.8.1 Transport	10
6.8.2 Packaging	10
6.9 Training of personnel	11

Foreword

This document (FprEN 16236:2012) has been prepared by Technical Committee CEN/TC 154 “Aggregates”, the secretariat of which is held by BSI.

This document is currently submitted to the Unique Acceptance Procedure.

This European Standard is one of a series of standards as listed below.

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 hydraulic bound materials for use in civil engineering work and road construction*;

EN 13383-1, *Armourstone — Part 1: Specification*;

EN 13450, *Aggregates for railway ballast*.

This European Standard replaces Annex H (normative) of EN 12620:2002+A1:2008, Annex B (normative) of EN 13043:2002, Annex E (normative) of EN 13139:2002, Annex C (normative) of EN 13242:2002+A1:2007, Annex D (normative) of EN 13383-1:2002 and Annex I (normative) of EN 13450:2002.

Introduction

This European Standard has been written as the system for the evaluation of conformity of aggregates. It is designed to be used in conjunction with the aggregate product standards: EN 12620, EN 13043, EN 13139, EN 13242, EN 13383-1 and EN 13450 and is called up by these standards.

Evaluation of conformity comprises initial type testing (ITT) and factory production control (FPC).

This standard has been compiled from the ITT and FPC clauses, annexes and tables previously found in the aggregate product standards. It does not introduce any new requirements compared with the original, 2002 versions of those standards. A new, separate Evaluation of Conformity standard is currently in preparation, which will provide more detailed ITT procedures and clear, detailed requirements for product conformity (e.g. statistical conformity criteria, number of samples, tolerances, time limits of validity etc). For the time being, when assessing aggregates within a system of factory production control, at least 90% of gradings taken on different batches within a maximum period of 6 months should fall within the limits specified in the product standards for tolerances on suppliers' typical declared gradings.

The initial type testing and factory production control procedures are designed to be applied to European Standards for aggregates. When the appropriate "conformity" clauses are applied, it forms part of the system for attestation of conformity as required by the Construction Products Directive. It provides the minimum level of ITT and FPC for CE Marking.

The testing procedures, using the reference test methods, have the function of providing assurance that a particular aggregate product complies with each of the selected specified requirements in the product standard. The type testing procedure is designed to be applied to all harmonised elements of European Harmonised Standards for aggregates. The system can also be extended to non-harmonised elements.

The factory production control system describes control of the sourcing and processing of the aggregate combined with routine sampling and testing to provide ongoing assurance that the aggregates product continues to conform to those properties determined through ITT. Testing within FPC may use either the standard reference tests called up by the aggregate product standards or other test procedures which have been shown to correlate with those tests.

For commercial and/or contractual reasons, the producer can choose to perform more testing and inspection than the minimum specified.

1 Scope

This European Standard specifies both initial type testing and factory production control requirements for use during the evaluation and production of aggregates.

Additional testing carried out within contracts is beyond the scope of this standard.

This European Standard is applicable to European Standards for aggregates if regulatory marking of conformity is to be applied. It is also applicable to European Standards for aggregates where regulatory marking does not apply.

This European Standard is applicable to the control of aggregates within the scope of EN 12620, EN 13043, EN 13242, EN 13139, EN 13383-1 and EN 13450.

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

EN 13383-2, *Armourstones — Part 2: Test Methods*

3 Terms and definitions

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

3.1

initial type tests

complete set of tests or other procedures, determining the performance of samples of aggregates representative of the product type

3.2

factory production control

permanent internal control of production exercised by the producer where all the elements, requirements and provisions adopted by the producer are documented in a systematic manner in the form of written policies and procedures

This documentation of the factory production control system should ensure a common understanding of quality assurance and enable the achievement of the required product characteristics and the effective operation of the production control system to be checked.

3.3

technical specifications

harmonised European Standards and European Technical Approvals (for aggregate)

FprEN 16236:2012 (E)

4 Evaluation of Conformity

4.1 General

The compliance of aggregates within the scope of EN 12620, EN 13043, EN 13242, EN 13139, EN 13383-1 and EN 13450 with the requirements of those standards and with the declared values (including classes) shall be demonstrated by:

- Initial Type Testing;
- factory production control by the manufacturer.

The manufacturer shall always retain overall control and shall have the necessary means to take responsibility for the product.

NOTE The assignment of tasks to the notified body and the manufacturer is shown in Annex ZA, Table ZA.3 of EN 12620:2011, EN 13043:2011, EN 13242:2011, EN 13139:2011, EN 13383-1:2011 and EN 13450:2002.

5 Initial type tests

The aggregates shall be subject to initial type tests relevant to the intended end use to show conformity with the relevant product standard in the following circumstances:

- a) a new source of aggregates is to be used;
- b) there is a major change in the nature of the raw materials or in the processing conditions that may affect the properties of the aggregates.

All samples used in type testing shall be representative of the material in question and shall be taken in accordance with EN 932-1 or in the case of armourstone EN 13383-2. The results of the initial type tests shall be documented as the starting point of the factory production control for that material. This shall include the data from the test reports from the test methods associated with all the requirements that have been verified.

The documentation shall specifically include the identification of any components likely to emit radiation above normal background levels and, any components likely to release polyaromatic hydrocarbons or other dangerous substances. If the content of any of these components exceeds the limits in force according to the provisions valid in the place of use of the aggregate, the results of the initial tests shall be declared.

6 Factory production control

6.1 General

The producer shall have in place a system of factory production control that complies with the requirements of this clause.

The records held by the producer shall indicate what quality control procedures are in operation during the production of the aggregate.

The performance of the factory production control system shall be assessed according to the principles used in this clause.

NOTE The form of control applied to any aggregate depends upon its intended use and the regulations relating to that use.