# DIN EN 15037-3:2011-07 (E)

## Precast concrete products - Beam-and-block floor systems - Part 3: Clay blocks (includes Amendment A1:2011)

## Contents

Page

The numbering of clauses is strictly related to EN 13369:2004 Common rules for precast concrete products, at least for the first three digits. When a clause of EN 13369:2004 is not relevant or included in a more general reference of this standard, its number is omitted and this may result in a gap on numbering.


**Foreword** ..... 4

**Introduction** ..... 6

**1 Scope** ..... 7

**2 Normative references** ..... 7

**3 Terms and definitions** ..... 8

**4 Requirements** ..... 11
**4.1 Material requirements** ..... 11
**4.2 Production requirements** ..... 11
**4.3 Finished product requirements** ..... 11
**4.3.1 Geometrical properties** ..... 11
**4.3.2 Surface characteristics** ..... 14
**4.3.3 Mechanical resistance** ..... 15
**4.3.4 Resistance and reaction to fire** ..... 16
**4.3.5 Acoustic properties** ..... 16
**4.3.6 Thermal properties** ..... 17
**4.3.7 Durability** ..... 17
**4.3.8 Other requirements** ..... 17

**5 Test methods** ..... 18
**5.1 Measuring of dimensions and surface characteristics** ..... 18
**5.1.1 Block dimensions** ..... 18
**5.1.2 Width and depth of the nib** ..... 19
**5.1.3 Thickness of the top flange of resisting and semi-resisting blocks** ..... 20
**5.1.4 Percentage of voids of the top flange of resisting blocks** ..... 20
**5.1.5 Flatness of the underside** ..... 20
**5.1.6 Straightness of the nib edges** ..... 20
**5.1.7 Surface characteristics** ..... 20
**5.2 Mechanical strength** ..... 20
**5.2.1 Resistance to concentrated loads** ..... 20
**5.2.2 Bending strength** ..... 22
**5.2.3 Longitudinal compression test for resisting and semi-resisting clay blocks** ..... 24
**5.2.4 Transverse testing of resisting and semi-resisting clay blocks** ..... 26

**6 Evaluation of conformity** ..... 27
**6.1 General** ..... 27
**6.2 Initial type tests** ..... 28
**6.3 Factory production control** ..... 28
**6.3.1 General** ..... 28
**6.3.2 Finished product test** ..... 28

**7 Marking** ..... 28

**8 Technical documentation** ..... 28

**Annex A** (normative) **Sampling for initial type testing and for independent testing of consignments** ..... 29
**A.1 General** ..... 29
**A.2 Sampling procedure** ..... 29

**A.2.1 Random sampling** ..... **29**
**A.2.2 Representative sampling** ..... **29**
**A.2.3 Dividing the sample** ..... **30**
**A.2.4 Number of blocks required per test** ..... **30**

**Annex B** (normative) **Inspection schemes for clay blocks** ..... **31**

**Annex ZA** (informative) **Clauses of this European Standard addressing the provisions of the EU Construction Products Directive** ..... **33**
**ZA.1 Scope and relevant characteristics** ..... **33**
**ZA.2 Procedure for attestation of conformity of clay blocks for beam-and-block floor systems** ..... **35**
**ZA.2.1 System of attestation of conformity** ..... **35**
**ZA.2.2 EC Certificate and Declaration of conformity** ..... **35**
**ZA.3 CE marking and labelling** ..... **36**
**ZA.3.1 General** ..... **36**
**ZA.3.2 Simplified label** ..... **37**
**ZA.3.3 Information to be provided with the CE marking** ..... **38**

**Bibliography** ..... **40**