DIN EN 15037-4:2010-05 (E)

Precast concrete products - Beam-and-block floor systems - Part 4: Expanded polystyrene blocks

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 can result in a gap on numbering.

Foreword ... 3

Introduction ... 5

1 Scope ... 6

2 Normative references ... 6

3 Terms and definitions ... 6

4 Requirements ... 8
4.1 Material requirements ... 8
4.2 Production requirements ... 8
4.3 Finished product requirements ... 8

5 Test methods ... 12
5.1 Measuring of dimensions ... 12
5.2 Mechanical strength ... 17
5.3 Compressive resistance test ... 25
5.4 Thermal conductivity ... 25
5.5 Thermal resistance of the floor system ... 25

6 Evaluation of conformity ... 25
6.1 General ... 25
6.2 Initial type tests ... 25
6.3 Factory production control ... 26

7 Marking ... 26

8 Technical documentation ... 26

Annex A (normative) **Sampling for initial type testing and for independent testing of consignments** ... 27
A.1 General ... 27
A.2 Sampling procedure ... 27

Annex B (normative) **Factory production control** ... 29

Annex C (normative) **Gravity loading tests** ... 31
C.1 Test rig ... 31
C.2 Procedure ... 36
C.3 Test report ... 36

Annex D (normative) **Calibration of concentrated loads testing machine** ... 38
D.1 Sample ... 38
D.2 Procedure ... 38
D.3 Validity ... 39

Annex E (normative) **Compliance criteria for resistance to concentrated loads** ... 40

Annex F (informative) **Calculation assumptions for calculating the thermal resistance of floors** ... 41

Annex ZA (informative) **Clauses of this European Standard addressing the provisions of the EU Construction Products Directive** ... 44
ZA.1 Scope and relevant characteristics ... 44
ZA.2 Procedure for attestation of conformity of EPS blocks for beam-and-block floor systems ... 45
ZA.3 CE marking and labelling ... 47

Bibliography ... 50