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Precast concrete products - Floor plates for floor systems

Betonfertigteile - Plattendecken mit Ortbetoneergänzung

Produits préfabriqués en béton - Prédalles pour systèmes de planchers

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English Version

Precast concrete products - Floor plates for floor systems

Produits préfabriqués en béton - Prédalles pour systèmes
de planchers

Betonfertigteile - Plattendecken mit Ortbetonerfüllung

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 229.

This draft amendment A1, if approved, will modify the European Standard EN 13747:2005. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

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Foreword

This document (EN 13747:2005/prA1:2008) has been prepared by Technical Committee CEN/TC 229 "Precast concrete products", the secretariat of which is held by AFNOR and was examined by and agreed with a joint working party appointed by the Liaison Group CEN/TC229-TC250, particularly for its compatibility with structural Eurocodes.

This document is currently submitted to the Unique Acceptance Procedure.

1 Modification to Foreword

Update the list of standards.

2 Modification to Clause 1, Scope

In the 6th paragraph, under "This standard does not cover":

- *in the first indent after "reinforced", add "and prestressed";*
- *at the end of the second indent, add "without stiffening ribs or lattice girder".*

3 Deletion of Annex Y, Choice of CE marking method

Delete Annex Y in its entirety.

4 Modification to Annex ZA, Clauses of this European Standard addressing essential requirements or other provisions of the EU Directives

Replace the existing Annex ZA with the following: "

Annex ZA (informative)

Clauses of this European Standard addressing the provisions of the EU Construction Products Directive

ZA.1 Scope and relevant characteristics

This European Standard has been prepared under the mandate M/100 "Precast Concrete Products"¹⁾ given to CEN by the European Commission and the European Free Trade Association.

The clauses of this European Standard shown in this annex meet the requirements of the mandate given under the EU Construction Products Directive (89/106/EEC).

Compliance with these clauses confers a presumption of fitness of the floor plate for floor systems covered by this annex for the intended uses indicated herein; reference shall be made to the information accompanying the CE marking.

WARNING — Other requirements and other EU Directives, not affecting the fitness for intended uses, may be applicable to the floor plates for floor systems falling within the scope of this standard.

NOTE 1 In addition to any specific clauses relating to dangerous substances contained in this Standard, there may be requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the EU Construction Products Directive, these requirements need also to be complied with, when and where they apply.

NOTE 2 An informative database of European and national provisions on dangerous substances is available at the Construction web site on EUROPA, accessed through http://ec.europa.eu/enterprise/construction/internal/dangsub/dangmain_en.htm.

This annex establishes the conditions for CE marking of floor plates made of reinforced or prestressed concrete, used for the construction of the structures of buildings and other civil engineering works and shows the relevant clauses applicable.

This annex has the same scope as Clause 1 of this standard and is defined by Table ZA.1.

1) As amended.

Table ZA.1 — Relevant clauses for floor plates

Essential characteristics		Requirement clauses in this standard	Levels and/or class(es)	Notes and unit
Compressive strength (of concrete)	All methods	4.2 Production requirements	None	N/mm ²
Ultimate tensile and tensile yield strength (of steel)	All methods	4.1.3 Reinforcing steel 4.1.4 Prestressing steel of EN 13369:2004	None	N/mm ²
Mechanical strength	Method 1	Information listed in ZA.3.2	None	Geometry and materials
	Method 2	4.3.3 Mechanical resistance	None	kNm, kN, kN/m
	Method 3	4.3.3 Mechanical resistance	None	Design specification
Resistance to fire (for load bearing capacity)	Method 1	Information listed in ZA.3.2	R	Geometry and materials
	Method 2	4.3.4 Resistance to fire	R	Min
	Method 3	4.3.4 Resistance to fire	R	Design specification
Airborne sound insulation index and impact noise transmission index	All methods	4.3.5 Acoustic properties	None	dB
Detailing	All methods	4.3.1 Geometrical properties	None	mm
		8 Technical documentation		/
Durability	All methods	4.3.7 Durability	None	Ambient conditions

The manufacturer or his authorized representative in the EEA shall select for CE marking the declaration method(s) he applies among the following:

- Method 1 = declaration of geometrical data and material properties (see ZA.3.2);
- Method 2 = declaration of geometry, material properties and product properties determined following this standard and EN Eurocodes (see ZA.3.3);
- Method 3 = declaration of product compliance with a given design specification distinguishing:
 - Method 3a = declaration of product compliance with a given design specification provided by the client (ZA.3.4);
 - Method 3b = declaration of product compliance with a given design specification provided by the manufacturer according to the client's order (ZA.3.5).

The requirement on a certain characteristic is not applicable in those Member States (MSs) where there are no regulatory requirements for that characteristic for the intended use of the product. In this case, manufacturers placing their products on the market of these MSs are not obliged to determine nor to declare the performance of their products with regard to this characteristic and the option “No performance determined” (NPD) in the information accompanying the CE marking (see ZA.3) may be used. The NPD option may not be used, however, where the characteristic is subject to a threshold level.

ZA.2 Procedure for attestation of conformity of floor plates for floor systems

ZA.2.1 System of attestation of conformity

The system of attestation of conformity of floor plate for floor systems, for the essential characteristics indicated in Table ZA.1, in accordance with the decision of the Commission 1999/94/EC of 25 January 1999 as given in Annex III of the Mandate M/100 "Precast concrete products", is shown in Table ZA.2, for the indicated intended use and relevant levels or classes:

Table ZA.2 — System of attestation of conformity

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Shuttering slabs for floors	Structural	—	2+
System 2+ : See Directive 89/106 (CPD) Annex III-2 (ii) First possibility, including certification of the factory production control by an approved body on the basis of initial inspection of factory and of factory production control as well as of continuous surveillance, assessment and approval of factory production control.			

The attestation of conformity of floor plate for floor systems, for the essential characteristics indicated in Table ZA.1, shall be based on the evaluation of conformity procedure indicated in Table ZA.3, resulting from the application of the clauses of this or other European Standards indicated therein.

Table ZA.3 — Assignment of evaluation of conformity tasks for floor plates for floor systems under system 2+

Tasks		Content of the tasks	Evaluation of conformity clauses to apply
Tasks under the responsibility of the manufacturer	Initial type testing ^a	All characteristics of Table ZA.1 (1)	6.2
	Factory production control	Parameters related to all characteristics of Table ZA.1	6.3
	Further testing of samples taken at the factory	All characteristics of Table ZA.1	6.3
Tasks under the responsibility of the notified body	Certification of factory production control on the basis of:	Initial inspection of factory and of factory production control ^b	6.3
		Continuous surveillance, assessments and approval of factory production control	6.3
^a Initial Type testing (ITT) includes calculation and/or testing. ITT by calculation is not required when only methods 1 and 3a are used. ^b Includes assessment that the factory production control system contains documented procedures related to ITT (calculation and/or testing) and that these procedures are followed. Reference to ITT of mechanical resistance and resistance to fire (when assessed by calculation) can be omitted when only methods 1 and 3a) are used. ^c Only for methods 2 and 3b.			

ZA.2.2 EC Certificate and Declaration of conformity

When compliance with the conditions of this Annex is achieved, and once the notified body has drawn up the certificate mentioned below, the manufacturer or his agent established in the EEA shall prepare and retain a declaration of conformity, which entitles the manufacturer to affix the CE marking. This declaration shall include:

- name and address of the manufacturer, or his authorised representative established in the EEA, and the place of production;

NOTE 1 The manufacturer may also be the person responsible for placing the product onto the EEA market, if he takes responsibility for CE marking.

- description of the product (type, identification, use etc.), and a copy of the information accompanying the CE marking;